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## Improving best practice for patients receiving hospital discharge letters: a realist review

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# Improving best practice for patients receiving hospital discharge letters: a realist review

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## TITLE

Improving best practice for patients receiving hospital discharge letters: a realist review

## ABSTRACT

**Objective:** To understand how outcomes are achieved from adult patients receiving copies of hospital discharge letters.

**Design:** A realist review conducted in three phases: (1) literature scoping to develop an initial programme theory (PT) relating to copying patients into written discharge communication from hospital inpatient and outpatient settings; (2) structured searching, retrieval and extraction of evidence; and (3) analysis and synthesis to refine the PT with stakeholder (general practitioners and health service commissioners) and patient input.

**Eligibility criteria:** Studies and publications reporting evidence that met criteria for relevance to the PT. Studies relating solely to mental health or children aged <18yrs were excluded.

**Analysis:** Data was extracted and analysed using a realist logic of analysis. Texts were annotated for concepts relating to context, mechanism and outcome configurations (CMOCs).

**Results:** 3113 documents were screened, and following appraisal and hand-searching 103 source texts were included. Stakeholders and patients contributed to refining the PT. The final PT included 48 CMOCs for how patients receiving discharge letters affects outcomes. Key concepts that affected the likelihood of beneficial outcomes were: patient choice; comprehension, queries and recall; personalised or patient-directed discharge letters; patient to deliver letter; dictating letters in front of patients; confidentiality; patient harm; clinician views; cost and resources; doctor-patient relationships and autonomy. Two key findings were that patient understanding is possibly greater than clinicians perceive, and that patients tend to express strong preference for receiving their letters. Clinician attitudes were identified as a barrier to initiatives for wider sharing of discharge letter with patients, which may need to be addressed through organisational policies and direction.

**Conclusions:** This review forms a starting point for explaining outcomes associated with whether or not patients receive discharge letters. It suggests several ways in which current processes might be modified to support improved practice and patient experience.

### Strengths and limitations of this study:

- First study to review and develop theories about patients receiving discharge letters.
- The engagement of patients, GPs and policy makers in refining the programme theory increased relevance and rigour of the theory.
- The programme theory is likely to be applicable and relevant to multiple healthcare settings.
- The exclusion criteria imposed restrictions on the programme theory such that evidence relating to children, those with mental health problems or lacking capacity is not considered.
- Only sources written in the English Language were included.

INTRODUCTION

Background

Discharge communication may follow an inpatient or outpatient discharge; it typically comprises written discharge information in the form of a discharge letter or summary. It is a well-established practice that the physician who is to follow up patient care, typically the GP or equivalent <sup>(1)</sup>, should receive written *discharge communication* from the discharging physician; this practice supports continuity of care between specialist services and primary care. Patients are sometimes included in this communication, and while within the UK this is considered to be ‘good practice’ <sup>(2)</sup>, is not standardised.

The *Department of Health* in the UK describes patient copies of letters as a “right” and recommend patients should be copied in where appropriate as a “rule”, unless there is risk of harm <sup>(2, 3)</sup>. This practice was intended to support patient understanding and wellbeing, increase patient safety and the quality of information sent, and improve doctor-patient relationships <sup>(2, 3)</sup>. More recently, the *Academy of Medical Royal Colleges (AMRC)* released the “please write to me” <sup>(4)</sup> initiative. The initiative’s purpose is to encourage doctors to write to directly patients in simple plain English to increase understanding. Despite these initiatives and guidelines, studies within and outside the UK report both benefits <sup>(5-13)</sup> (e.g. high patient satisfaction), and drawbacks <sup>(9, 10, 13-16)</sup> (e.g. patient confusion) of patients receiving their letters. Hence, many patients do not receive copies of such letters, but the reasons for this and the subsequent consequences remain unclear <sup>(2, 3, 17)</sup>.

We recently published a protocol <sup>(18)</sup> for this review which fully details the background and methods we used. As summarised in the protocol paper:

“Whether or not it is beneficial for patients to receive written discharge communication, and, if so, for whom, when, how, why, and whether this should be a direct copy or personalised letter remains equivocal. We could find no review specific to this question; we only found reviews of copying letters in general <sup>(19, 20)</sup>.” <sup>(18)</sup>

Thus, the evidence on patients receiving discharge letters is unclear and it was concluded that consolidation of the evidence through a realist review is required.

METHODS

A realist review is a, ‘theory-driven, interpretative approach to the synthesis of evidence’ <sup>(21)</sup>. Synthesising evidence involves interrogating data sources to develop, refine and test *context*, *mechanism*, and *outcome* configurations (CMOCs). “Context may be conceptualised as external factors that influence mechanisms” <sup>(22)</sup>. “Mechanisms” are hidden, context causal forces that produce “outcomes”.<sup>(22)</sup> Following Pawson <sup>(22-25)</sup>, CMOCs should be configured and consolidated to build and develop a realist *programme theory* or theorised explanation of how an intervention *works* or not. The intervention under scrutiny ‘patients receiving discharge letters’ was defined by the review team as ‘the patient being given or sent any form of written (paper or digital) hospital discharge communication; this could be a direct copy, patient-directed letter, or a combination.’

The protocol <sup>(18)</sup> considers realist review methodology in depth and argues a realist approach is apt and useful approach for this review. Briefly, we argued that: a realist review has the potential to identify *how* positive outcomes may be reproduced

and has capacity to account for *complexity*. The intervention is complex in that the *form* of discharge communication can vary and the *quality* of communication is highly context-dependent.

The review design (Figure 1) was informed by previous literature, consists of six steps<sup>(22, 26, 27)</sup> and is further described in the protocol paper<sup>(18)</sup>.

### *Figure 1 Review design*

The aim of the review is to understand and explain how the different outcomes are produced from adult patients receiving written discharge letters. Outcomes may be simplified into desired/beneficial or 'positive' (e.g. satisfaction) and undesired/detrimental or 'negative' (e.g. anxiety). The objectives are to conduct a realist review of the intervention (patients receiving copies of discharge communication); to develop a programme theory (PT); and to make best practice recommendations for the intervention.

The research questions (RQs) are as follows:

RQ1: What positive and negative outcomes have been reported on patients receiving written discharge communication?

RQ2: What are the important contexts which are associated with whether the mechanisms produce the different outcomes, and why?

### **Programme theory development (step 1)**

The task of locating existing theories to develop an initial rough PT was achieved through a scoping search. Theories were sought which contributed toward understanding how patients receiving discharge letters *works* or not. Search terms were based on the intervention (e.g. patient cop(y)ies). Published resources and healthcare websites were searched to ascertain a range of evidence (see *Supplementary file 1*). Sources were selected based on their "relevance"<sup>(22-24)</sup> to the PT; where *relevance* concerns 'does the [source] address the theory under test?'<sup>(23)</sup>. Crucially, the whole source did not need to inform the PT but we considered the relevance and contribution of sections of the document<sup>(7)</sup>. During this phase, research team judgement was needed to decide the stopping point for programme theory development as was the need to balance the degree of comprehensiveness and practicalities<sup>(18)</sup>.

Twenty seven documents were selected from the scoping search (see *Supplementary file 2*). All documents were then interrogated and coded for any CMOCs, concepts, or theories which could inform development of a PT. These were consolidated to form Figure 2, the initial PT.

Figure 2 Initial programme theory

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## Search strategy (step 2)

The electronic searching was purposive and guided by the initial PT. A search strategy was developed which was piloted and adapted for MEDLINE until a diverse and relevant range of search results were yielded (target 500-3,000). Thus, there was no strict search “threshold” and the most important criterion for search results to meet was *relevance* <sup>(22, 23)</sup>. In line with a realist approach, searching was iterative, and the strategy was refined for each database (see *Supplementary file 3*). Sources included electronic databases, healthcare sites, and grey literature.

The search strategy was not intended to be exhaustive, but provided a large enough overview to be meaningful for PT development <sup>(23)</sup>. Evidence was searched up until September 2017; publications were monitored thereafter but no new evidence affected the PT. In total, 3113 documents were selected for screening.

## Selection and appraisal of documents (step 3)

Inclusion or exclusion of source evidence for the review were according to the following criteria:

### Inclusion criteria:

- Full text or section of source had *relevance* <sup>(22, 23)</sup> to informing the PT
- Relate to inpatients/outpatients discharged from hospital to GP (or equivalent)
- Relate to discharge where discharge letter is sent to GP (may also be copied to patient)
- Source written or published in English

### Exclusion criteria:

- Specific to discharge to units/physicians other than GPs (or equivalent), e.g. another hospital
- Specific to discharge of patients who lack cognitive capacity, e.g. dementia, or where there may be higher risk of harm, e.g. mental health discharge
- Lack of written communication having taken place, e.g. telephone only
- Specifically relate to patients <18 years
- Source not written or published in English

The criteria were developed to include evidence that encompassed a variety of patients and be relevant across different healthcare settings. The exclusion criteria posed limitations on the review; children under 18 (where the parent would often be the letter recipient), patients with particularly specialised communicative needs (e.g. patients without capacity) or where the intervention may have a higher potential risk of causing harm (e.g. psychiatric discharge documents) were excluded. The communication needs of some of these patients may be more complex and variable within and between groups and therefore was not possible within review scope. The first exclusion criterion states patient discharge communication to those other than GPs or family or community physicians was excluded. This is because the review specifically focussed on discharge communication to GPs and patients rather than referrals or care-handovers. Furthermore, the review aimed to develop a theory for patients receiving discharge communication and inclusion of hospital-hospital discharge may have reduced clarity and produced a less focussed theory.

Once KW had screened the documents by title and abstract, second reviewer EM screened a random 10% test selection; as recommended by Wong et al. <sup>(26)</sup>. Inter-reviewer agreement was set at kappa measure  $K \geq .8$  <sup>(28)</sup>. A result  $K < .8$  would require all documents to be second screened. Inter-reviewer agreement was calculated as sufficient ( $K = 0.82$ ). In the first screening phase, 611 duplicates were removed and 2,341 documents excluded; this left 161 documents.



The full texts of these 161 documents were then screened, primarily for relevance <sup>(22, 23)</sup> by KW, with EM screening a random 10% sample. Inter-reviewer agreement was again high (K=0.92). Eighty eight documents were excluded at this stage leaving 73 for inclusion.

In addition, hand-searching of bibliographies, ‘cited by’ searching, and contacting experts was undertaken. This identified a further 30 relevant documents, creating a total of 103 documents. *Supplementary file 4* provides the final document list. The selection process is summarised in Figure 3.

Figure 3 PRISMA <sup>(29)</sup> diagram (document selection process)

Data extraction and analysis (step 4)

A “hybrid” <sup>(26, 30)</sup> approach to data extraction was undertaken. This allowed extraction of both descriptive document characteristics and annotation of CMOC ideas for synthesis and integration into the PT <sup>(22, 23)</sup>. The *Excel* data extraction form (see *Supplementary file 5*) was designed iteratively to record pertinent document details. Final columns included: author(s), year, geographical information, healthcare system, design aim, no. of participants intervention, clinical speciality, inclusion and exclusion criteria, findings/conclusions, rigour/quality assessment <sup>(22, 23)</sup>, topic focus, form of discharge communication e.g. discharge summary, participant mix, staff mix, and relevance score <sup>(22-24)</sup>.

Documents were also annotated in NVivo for CMOCs and PT ideas. Annotations were guided by the initial PT devised in step 1.

Data synthesis (step 5)

During step 5, data and annotations of PT ideas and CMOCs were consolidated. A realist analytic approach, following the work of Pawson <sup>(22-24, 31)</sup>, was used to interrogate the theory during data synthesis. Pawson <sup>(22-24, 31)</sup> presents several different frameworks for synthesising data evidence. We selected the framework <sup>(23)</sup> entitled “synthesis to consider the same theory in comparative settings”, which involves five analytical strategy steps. This framework was chosen as it assumes theories sometimes “work” and “do not work” according to the particular setting; Pawson et al.<sup>(23)</sup> describe this as ‘aim[ing] to make sense of the patterns of winners and losers’. Hence, this framework is suitable for the research questions which focus on cause and context of positive outcomes “winners” and negative outcomes “losers”. Thus, data synthesis was grounded on the assumption that the intervention *outcomes* of the intervention may differ according to *context*.

The following realist analytical strategy steps <sup>(23)</sup> were undertaken simultaneously

1. Juxtaposition of data sources – align sources to build upon/clarify each other
2. Reconciliation of data discrepancies – explore reasons for data disparities
3. Adjudication of data – data quality consideration of trustworthiness/relevance
4. Consolidation of data - inference of Mechanisms for outcomes
5. Situation of evidence - consideration of intervention settings

‘Juxtaposition of data sources’ was achieved using NVivo ‘nodes’. Annotations were labelled and coded as nodes. The nodes were named according to ideas or concepts around the PT and often formed groupings of mechanisms, outcomes and contexts. NVivo node coding resulted in 19 nodes seen in Table 1.

Table 1 Coding nodes

Node name	No. of different sources coded	Total no. of sections of text coded
Autonomy	5	5
Clinician context (views)	23	57
Confidentiality	12	15
Context (when it does not work)	29	46
Context (when it does work)	54	107
Cost/resources	20	33
Dictate in front of patient	3	5
Doctor patient relationship	5	7
GP preference	4	8
NHS policy or contextual standards (international)	30	51
Outcomes (positive)	58	128
Outcomes (negative)	22	28
Patient as delivery method	2	2
Patient harm	24	33
Patient letters	18	34
Patient preference	37	94
Patient recall	11	12
Queries and contact	10	12
Understanding	46	88

During, 'reconciliation of data discrepancies' (22, 23, 26) and 'adjudication of data' (22, 23, 26), NVivo was used for scanning and comparing data to identify disparities. Adjudicating and situating evidence was important to reconcile discrepancies (22, 23, 26). Following node coding, a CMOC table was constructed (see *Supplementary file 6*) for consolidation of data and annotations. During table completion, we identified CMOCs where the intervention does and does not work.

### Programme theory refinement (step 6)

Review step 6 was to consider stakeholder perspectives to test and refine the PT in light of the synthesised data (23). Stakeholder views are for "checking" that the PT aligns with real-life experiences (7). We consulted three groups: local policy makers and health service commissioners, GPs and service-users/patients. These groups were selected due to accessibility and their differing roles. Groups were contacted through University links.

RESULTS

Document characteristics

The 103 evidence sources were from 16 countries across various continents with most emanating from England (54%), the US (17%), and Australia (7%). Healthcare settings were split between insurance style systems (23%) and publically funded systems (77%), such as the NHS. The date range of the sources was from 1979-2017 and the total number of participants detailed across the research studies was 16,383; this included staff and patient participants but there was not enough detail across all of the studies to quantify the participant type proportions. Most had been published in the 10 years prior to the search: 1970-1979 (1%), 1980-1989 (2%), 1990-1999 (7%), 2000-2009 (40%), and 2010-2017 (50%).

The evidence covered a wide range of specialties. Most specified inclusion of adult patients only (over 18 years) but often did not detail the exact patient ages in the write up; a few studies focussed on elderly patients. Information relating to patient demographics e.g. gender, was often not found in the sources and hence these were not summarised. Many sources instead focused on the speciality under consideration in the document and clinical presentations of interest to that speciality e.g. abnormal ECGs<sup>(32)</sup>. Participants who were staff included medical students, doctors of all training grades, nurses, GPs, non-specified hospital staff, and non-clinical staff. However, the majority of documents (66%) either did not provide staff participant details or they were irrelevant e.g. guideline document, no participants. The type of discharge communication that the evidence related to was varied: direct copies (48%), discharge instructions (13%), pictures (1%), personal discharge packs (1%), personalised letters (13%), information booklets (9%), multiple types of discharge communication (7%), and other (11%). Where the sources came from showed some variation such as Department of Health archive (3%) and conference listing (5%) but the greatest number of sources were from journals (68%).

Quality and document rigour

The findings of this review in the following sections should be considered in light of the quality and rigour appraisal results of included documents to avoid over-interpretation of the findings. During data extraction in step four, documents were quality appraised for *rigour* and evaluated for *relevance*<sup>(22, 23)</sup>. The concept of *rigour* is defined as ‘whether the methods used to generate the relevant data are credible and trustworthy’<sup>(21)</sup>. *Relevance* and *rigour* were scored on a scale from very low to very high and factors such as document type e.g. opinion piece or scientific trial paper, were considered. It is acknowledged that the appraisal process was subjective. Documents were not excluded solely based on rigour as extracts of documents with a lower quality score may still have valid contributions<sup>(9)</sup>. The full quality appraisal results are in the data extraction table (see *Supplementary file 5*).

The quality of evidence varied, with 53% of sources graded as medium or above for relevance and 80% for rigour. The remainder were graded medium/low (relevance=9%, rigour=18%), low (relevance=24%, rigour=1%) or very low (relevance=14%, rigour=1%). Information relating to setting and context was not always found or was insufficient. The source type was mixed: discussion pieces (20%), survey-based study (19%), guideline documents (13%), conference abstract (7%), review (5%), interview-based study (5%), experimental study (5%), pilot study (5%), randomised controlled trial or randomised intervention study (5%), non-randomised intervention study (3%), report document (3%), cohort study (2%), mixed methods (not covered above) (1%) and other e.g. PhD thesis (8%). Notably, the most common type was “discussion piece”; these were often solely based on the opinion of one individual and so did not always provide strong evidence.

In some areas, evidence relating to the PT were thin, these included: negative outcomes, intervention cost, recent clinician views, doctor-patient relationships, personalised patient letters and nil intervention. Thus, some CMOCs were constrained by source data. Evidence was also thin in relation to data disparities, for example the reasons *why* conflicting attitudes or results occurred were often not described. Although, context and outcome information was generally well supported, mechanisms were frequently omitted. Hence, where possible, the expertise of the research team was drawn on to infer reasons for disparities and what the likely mechanism(s) were within any CMOC. Hence, the CMOCs and PT presented in the following sections are based on source data where possible but have also been supported by stakeholder feedback and research team inferences.

## Context-mechanism-outcome configurations

The following section provides an overview of theories in the form of a narrative of how patients receiving discharge letters does or does not work, as informed by the included sources. The sub-headed themes emerged during data interrogation and consolidation. Sections contain references to CMOCs, quotations from data texts, and references. Quotations have been chosen which illustrate the described theories and highlight key elements of CMOCs. The full table of 48 CMOCs is found in *Supplementary file 6*.

### *Patient preference/choice*

Allowing patients to make their own choice for receiving letters may: reduce unnecessary resource strain [CMOC14], only take minimal time <sup>(12)</sup>, make patients feel more involved in their care <sup>(2, 12, 33-37)</sup> [CMOC2], increase satisfaction <sup>(34, 38-42)</sup> [CMOC14, CMOC41, CMOC47] and aid information acceptance <sup>(43)</sup>:

*"I wanted to know as much as possible about what was going on with my body"*  
<sup>(43)</sup>(p.73)

*"Sometimes for whatever reason you don't fully take on board what the doctor has told you. I found the letter useful to read over and digest properly what was written"*  
<sup>(2)</sup>(p.3)

Many patients report that receiving letters is useful <sup>(2, 7, 36, 37, 39, 44-46)</sup>. Patients may show friends/family to help them better understand their condition/treatment <sup>(43, 47-51)</sup>. Patients may use letters as a reference/reminder for the consultation <sup>(42, 43)</sup>:

*"My mind went blank after seeing the doctor and the letter reminded me of what had been said"* <sup>(36)</sup>(p.83)

Across a range of specialties and settings, the reported patient preference for receiving copies of their discharge letter is generally high (79%-97%) <sup>(7, 11, 34, 35, 42-44, 46, 52-55)</sup>. However, not all patients may find letters helpful <sup>(40)</sup> or necessary <sup>(7, 34, 49)</sup>, and some may not want to be reminded of their diagnosis <sup>(34)</sup>, which could decrease satisfaction, and generate queries <sup>(56)</sup> if these patients were sent letters without a choice [CMOC40]. Hence, several studies argue in favour of respecting patient choice and suggest the patient's right to "opt out" needs to be addressed <sup>(7, 38, 39, 43, 46, 47, 53, 57-59)</sup> [CMOC41]. In situations where the patient is not offered a choice, such as third party information or risk of harm <sup>(2)</sup>, the clinician should be able to justify this decision <sup>(60)</sup>. In relation to sensitive information or social diseases, patients generally do not object to this being included in the letter as long as it has 'some relevance' <sup>(60)</sup>.

### *Comprehension, queries and recall*

There was considerable evidence, particularly from patient viewpoints, to support the view that the majority of patients may understand their letters <sup>(7, 11, 33-36, 44-46, 50, 56, 60-64)</sup> and

hence find the letter beneficial and helpful <sup>(44, 45, 65)</sup> [CMOC7, CMOC39, CMOC44]. Moreover, a letter copy which is understood can reassure patients they are being listened to <sup>(44, 45, 65)</sup> [CMOC34, CMOC48]. Patient understanding of discharge instructions may increase their knowledge <sup>(49)</sup> and this might reduce unnecessary or avoidable hospital readmissions <sup>(1, 48, 64, 66-69)</sup>, help patient acceptance of their illness <sup>(65)</sup>, and reduce patient anxiety <sup>(70)</sup> thereby supporting patient wellbeing <sup>(47, 54, 60, 71)</sup> [CMOC39]:

*“I found the letter very comforting and reassuring” <sup>(72)</sup>(p.58)*

Although there may be a risk that patients receiving letters is associated with an increase in queries to seek clarification about what has been stated <sup>(33)</sup>, several sources indicated that this occurs to a minimal extent <sup>(11, 33, 44, 57, 60)</sup> [CMOC29]. Examples of patients not understanding letters are often described as a “small proportion” <sup>(45)</sup> or low percentage ‘7%’ <sup>(34)</sup>.

If patients are provided verbal information only, they may fail to retain the information <sup>(36, 42)</sup> [CMOC18] which can decrease recall and adherence [CMOC21]:

*“By the time I have got home, I have forgotten half of what was said in clinic.” <sup>(44)</sup>(p.255)*

Due to this, combining written and verbal information <sup>(73)</sup> may improve patient understanding <sup>(36, 51, 74-78)</sup> [CMOC15, CMOC18], increase patient’s involvement in their care <sup>(36, 47)</sup> and compliance <sup>(46, 59)</sup> [CMOC11, CMOC43], and improve recall <sup>(40, 42, 43, 46, 56, 75, 79, 80)</sup> [CMOC5, CMOC15].

Contexts which may increase likelihood of triggering patient understanding include: letter language translation <sup>(38, 76, 81)</sup>, writing the letter at a 5<sup>th</sup> or 6<sup>th</sup> grade reading age level (11 years) <sup>(16, 38, 75, 82)</sup> [CMOC12], use of glossary <sup>(47, 83)</sup>, pictures, pictographs or equivalent <sup>(75, 84, 85)</sup> (particularly for low literacy or illiterate patients) <sup>(15, 48, 64, 66)</sup> [CMOC17], lay explanations for ‘technical terms’ <sup>(47, 60)</sup> and writing in plain English with minimal jargon/abbreviations <sup>(35, 39, 60, 75, 82, 86)</sup> [CMOC12].

A couple of sources suggested training doctors on writing patient letters can mean they produce letters more meaningful to patients <sup>(13, 72)</sup> [CMOC13]. However, the evidence around training in relation to the intervention was limited and needs further research.

#### *Personalised or patient-directed discharge letters*

Producing a letter which is comprehensible and useful to both GPs and patients has been recognised to be an issue <sup>(46)</sup>. Patient-directed or personalised patient letters have been proposed [CMOC24, CMOC36], and patients often rate these letters as ‘helpful’ <sup>(5, 49, 87)</sup> and that this may heighten satisfaction <sup>(49)</sup>, and improve understanding <sup>(45)</sup>:

*“Simplifying written communication has also been shown to improve patient comprehension.” <sup>(5)</sup>(p.855)*

However, personalised letters have the potential to lead to resource consumption <sup>(46)</sup> [CMOC25], staff time depletion <sup>(46, 88)</sup> and patient anxiety that they have been given different information to their GP <sup>(88)</sup> [CMOC26]. For these reasons, further research which weighs the benefits of personalised patient letters against the drawbacks and costs is needed.

#### *Patient to deliver letter*

The context of patients delivering letters seems to have few reported positive outcomes. Posting and electronic transferral of letters may be preferable as:



*"It is not considered good practice to send the discharge summary home with the patient as there is no guarantee that the information will be passed on to the general practitioner" <sup>(89)</sup>(p.7)[CMOC31].*

### *Dictating letters in front of patients*

Evidence for this concept was somewhat thin. One study suggested that dictating letters in front of patients can make patients feel less in need of a copy of the letter <sup>(11)</sup>. Another paper suggested this practice may also provide a context that triggers patients to challenge inaccuracies, improving letter quality <sup>(83)</sup> [CMOC22, CMOC30]:

*"The content of letters to GPs is sometimes incorrect and this may be remedied by dictating the letter in front of the patient." <sup>(83)</sup>*

### *Confidentiality*

There are concerns and legal implications surrounding potential confidentiality breaches associated with patients receiving letters, particularly when they are sent out in the post <sup>(15, 35, 42, 49, 52, 54, 58, 90)</sup>. One recent paper <sup>(52)</sup> (2013), which looked at confidentiality, continued to stress risks around postal communication and the importance of secure information transfer:

*"There is a substantial risk of breaching patient confidentiality when distributing correspondence by post. A well-designed security arrangement is therefore required to ensure the safety of confidential information." <sup>(52)</sup>(p.35)*

Some documents <sup>(52, 57, 58, 60, 91)</sup> suggested ways to reduce potential risk of confidentiality breach through communication platforms and the processes involved in sending letters e.g. verifying patient contact details before sending letter <sup>(60)</sup> [CMOC3, CMOC27, CMOC28].

### *Patient harm*

Patient anxiety or "harm" in general are often cited as reasons for clinicians not wanting to copy letters, particularly in "bad news" settings <sup>(17, 36, 41, 43, 46, 47, 49, 56, 61, 92)</sup> [CMOC6]. Letter inaccuracies can cause concern leaving patients feeling confused or anxious <sup>(45)</sup> [CMOC19]. Nevertheless, the letter can reassure the patients their problems are being handled <sup>(54)</sup> and initial anxiety can settle or be nullified by the usefulness of the letter <sup>(44, 46, 49, 60, 93)</sup> [CMOC37]. Moreover, one study published in the *Lancet* in 1991 suggested patient letters in "bad news" settings may be more useful than "good news":

*"Patients who had received bad news found the letter significantly more useful in helping them to understand and remember what they had been told during the consultation than did patients receiving good news... almost half the patients receiving bad news found their letter distressing to some extent; however, with 1 exception, all patients were pleased to have received it." <sup>(39)</sup> (Pp.924-925)*

Although the above paper was published in 1991, there has been no recent evidence or system changes to dispute the notion that "bad news" letters may be of particular use to the patient. Hence, despite risk of initial "harm", "bad news" letters should perhaps not be avoided.

Practical and feasible suggestions were found in some documents for minimising harm or anxiety: not copying letters with information not previously disclosed to the patient <sup>(2, 43, 60)</sup> [CMOC38], abstain from use of value judgements e.g. pleasant lady <sup>(36)</sup>, avoid copying letters where there are 'problems of privacy at home' and/or where the patient lacks capacity <sup>(2)</sup> [CMOC20], and checking the patient consents to a letter <sup>(60)</sup>.

### *Clinician views*

GP and hospital clinician views were described both as in favour (12, 33, 44, 49, 59, 65, 94) [CMOC5, CMOC16] and not in favour of patients receiving discharge letters across a range of specialities (33, 35, 36, 40, 44, 49, 50, 54, 65, 88, 95, 96) [CMOC6, CMOC35]. The response section (12, 14, 15) to a BMJ article (97) (2008) on patient letters demonstrates the clinician view dichotomy as two practitioners argue for and against patients receiving letters:

*“Generally, doctors who are sceptical about copying letters to patients seem not to have tried it, whereas those who send copies routinely are enthusiastic.” (12)(p.1370)*

*“My colleagues and I have had to explain to alarmed and bewildered patients who have received copies of their correspondence the meaning of phrases...” (15)(p.1369)*

Practitioner perceived benefits found in the sources [CMOC5] included: improved patient understanding (49, 65, 88), increased transparency (50) [CMOC33], improved trust/doctor-patient relationship (12, 47, 49, 88), dispelling fears of ‘secretive relationships’ between clinicians and heightened sense of patient importance (49). In addition, the patients’ right to view the information was noted (88) [CMOC7, CMOC16]. A common practitioner concern of the intervention across specialties was letter comprehensibility and patient understanding (15, 33, 35, 36, 43, 47, 49, 50, 54, 88, 98, 99) [CMOC6]. Other concerns included: cost of additional materials/staff time (15, 33, 44, 45, 52, 88) [CMOC23, CMOC32], patient anxiety (47, 49) [CMOC6, CMOC19], increased patient queries (33) [CMOC29], potential confidentiality breaches (49) [CMOC6, CMOC27], and that letters would be oversimplified (49, 65, 88, 99). An attitudinal issue found in two oncology papers (50, 88) published 17 years’ apart was the view that letters are tools to be used between doctors only [CMOC6]. Additionally, juniors can learn from and mimic superiors and also not send letters to patients (100).

Confusion around ‘letter comprehensibility’ and lack of ‘patient understanding’ were the commonest clinician reservations relating to the intervention (15, 33, 35, 36, 43, 47, 49, 50, 54, 88, 98, 99). However, as covered in the *comprehension* section, patients are often reported as *understanding* their letters (11, 33, 44, 57, 60) and furthermore they tend to express strong preference for receiving such letters (7, 11, 34, 35, 42-44, 46, 52-55). Thus, it may be inferred from the evidence that patient understanding of letters is higher than clinicians’ perceive. The following from a recent (2016) abstract concisely summarises an example of patient and clinician view disparity:

*“While some oncologists assess the copy letters as inappropriate for supplemental patient-oncologist-communication, breast cancer patients regard this tool as predominantly gainful. Oncologists appear to stick to their traditional perspective which perceives the copy letter mainly as a communication tool from doctor to doctor.” (50) (p.185)*

Notably, most of the evidence reporting clinician views was published from 2002-2008 and current evidence on clinician perspectives remains limited. Moreover, although sources often referred to conflicting clinician views, information on *why* attitudes differ was extremely thin. Overall, better understanding of current clinician views on copying discharge letters to patients is required. Further research should address reasons behind different viewpoints to include patients and practitioners.

### Cost and resources

The estimated costs associated with the intervention varied (47) but this must be considered in the context that included documents spanned a wide time range and thus factors such as inflation need to be considered. In addition, robust health economic analyses were not found in the included sources. Documents (15, 33, 42, 54, 83) referred to “cost” or financial implications [CMOC25] of sending letters in different ways such as use of consumables (33, 45, 54, 55, 101) [CMOC10], and secretarial (33, 44, 45, 54) [CMOC10] and clinician time required (45). A few sources (34, 36, 44, 46, 55, 60, 102), including guideline documents and research papers, suggested that benefits were such that associated costs were minimal, or



even reduced by patients being more informed from receiving discharging communication [CMOC7, CMOC25, CMOC42]. However, as these views were based on personal comment or studies with weak methodologies, the true cost consequences remain unknown.

### Autonomy

One source suggested that when patients are not given letters, they may feel less involved in their care, resulting in reduced patient autonomy<sup>(103)</sup> [CMOC1, CMOC6]:

*"To refuse to provide such information if this is the patient's wish is to deny their autonomy."*<sup>(103)</sup> (p.388)

Conversely, some evidence was found that providing patients with written discharge letters is their "right"<sup>(3, 58)</sup>, may create a sense of involvement, and increase patient autonomy and satisfaction<sup>(103, 104)</sup> [CMOC2, CMOC4, CMOC5, CMOC8, CMOC14].

### Doctor-patient relationships

Very few documents were found which considered the intervention in terms of the doctor-patient relationship. However, the limited evidence that was found indicated that patients receiving letters has the potential to improve communication, trust and the doctor-patient relationship [CMOC9]<sup>(33, 43, 47)</sup>.

### Stakeholder perspectives

As detailed in step 6, the final review step was to refine the programme theory through stakeholder perspectives. Three groups were consulted: local commissioners, GPs and service-users/patients. Groups were relatively small and not representative of the general population; due to feasibility it was not possible to achieve diverse and representative group samples.

All group discussions were centred on the programme theory; members were encouraged to critique and feedback on the PT diagram. Between all the groups, concepts not covered or explored in adequate detail in the PT diagram were raised in regards to: the importance of comprehensible language and terminology, difficulty and problems retaining verbal information only e.g. where anaesthesia used, patient choice of receiving letters, illegibility of handwritten discharge communication, critical context of prior patient communication of a high quality to increase likelihood of understanding discharge letters, issues around personalised patient letters considering NHS resource availability, and concerns around writing a letter which meets the needs of both GP and patient. The commissioner and GP representatives also emphasised the importance of patient safety and that this should be central to best practice recommendations. In addition, the patient group reported reading a letter about themselves written in third person was peculiar. The patient group felt patient letters were very important for patients taking responsibility for their health in line with the NHS promotion of patient-centred and patient-led care.

Several different members across the various groups commented that in practice, patients do not always receive their letters, despite this process being best practice. Recommendations were suggested to rectify this by the commissioner members to include: clinicians should assume when writing letters that they could be made available to the patient, early clinician and student training in good letter writing and record keeping, and that hospitals should support the initiative e.g. audits.

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**Cycling of review steps**

As a realist review is an iterative process, following the initial six step cycle, steps may be repeated in order to attain “theoretical saturation” (22, 24). There was substantial overlap between documents which is demonstrated by the fact there are 103 documents in the review but only 48 CMOCs. Furthermore, as described in step two, new publications were followed and consulted for evidence and provided no new or conflicting programme theory knowledge. Thus, it was deemed that “theoretical saturation” in accordance with Pawson’s realist review methodology (22-25) was attained and no further searching or step cycling was required.

**Resultant programme theory**

The PT was systematically updated and finalised following review steps 1-6 (Figure 4). Thus, several changes were made to the initial theory (Figure 2) to produce the resultant theory below (Figure 4) and these are summarised here.

The feasibility of providing a personal patient letter with current NHS setting of resource provision was removed from the PT. Therefore, the personalised letter section of the PT instead focuses on alternative healthcare settings e.g. insurance-based, which is the setting where the majority of research on this type of intervention was conducted. In addition, the box of contextual influences was deleted, and the points integrated into the overall diagram. Patient outcomes throughout the PT were simplified and clarified, for example, the outcomes such as ‘empowered patients’ and ‘reduce patient anxiety’ were simplified to the outcome ‘improved patient well-being’. The final PT has more refined and distinct pathways for when the patient does and does not receive letters and the subsequent respective outcomes. Furthermore, contexts for when the patient *does* receive their letter(s) were condensed into an aligned grouping of five key contexts for when the intervention may be theorised to *work* and four key contexts for when the intervention may be theorised *not to work*. In the resultant PT, CMOCs have been “grouped” where overlap was apparent, for example, all resources are labelled simply as “resources” as most of the data concurrently referred to financial, administrative and clinician time resources.

The resultant theory is an overview of all the CMOCs identified in this review but is acknowledged that the below diagram is unlikely to be entirely comprehensive.

Figure 4 Resultant Programme Theory

For peer review only

DISCUSSION

Statement of principal findings

This review of 103 sources summarises and expands upon existing evidence by moving beyond “benefits” and “drawbacks” of patients receiving letters alone, and considering contexts of *when* as well as *how* the intervention works. Although the review focuses on the UK health system, our use of realist review has enabled identification of findings that may be transferable to other healthcare settings.

RQ1 asked about positive and negative outcomes of the intervention. Positive outcomes include: increased patient satisfaction<sup>(34, 38-42)</sup>, improved doctor-patient relationship and trust<sup>(33, 43, 47)</sup>, heightened patient knowledge<sup>(32, 75)</sup>, improved letter and record quality<sup>(2, 13, 33, 45)</sup>, and reduced anxiety<sup>(17)</sup>. Negative outcomes include patient queries<sup>(47)</sup>, confusion<sup>(33, 49, 54, 61)</sup>, and anxiety<sup>(47, 49)</sup>. RQ2 enquired after the important contexts for triggering these outcomes. Important contexts for positive outcomes include: letters written in plain English with minimal abbreviations<sup>(60)</sup>, lay explanations or simplified terms in brackets for medical jargon e.g. myocardial infarction (heart attack)<sup>(47, 60)</sup>, written information provided alongside verbal explanation, no new information in letter<sup>(2)</sup> or value judgements<sup>(36)</sup>, letter translation<sup>(38, 76, 81)</sup> where relevant, training clinicians on letter writing practice<sup>(13, 72)</sup>, use of pictures and glossaries where relevant<sup>(75, 84, 85)</sup>, letters only given to patients who choose to have them<sup>(47, 60)</sup>, and where there is no identified risk of harm<sup>(2)</sup> or confidentiality breach<sup>(60)</sup>.

This review has produced two key findings, which are important but not wholly surprising. The first is that the reviewed evidence indicates that patient “understanding” of their discharge letters is greater than clinicians perceive<sup>(7, 11, 15, 33-36, 43-47, 49, 50, 56, 60-64, 88, 98, 99)</sup>. However, reasons behind patient and clinician perceived comprehension discrepancies were unclear. It is important to situate the first finding in terms of the study exclusion criteria and participant diversity across the evidence reviewed, for example, it is likely that patients who participate in research on this topic have a greater level of interest and literacy than those who did not participate. One or a number of demographic groups not involved in the studies, either by choice not to participate or by exclusion, may have accounted for a portion of those who clinicians perceive to have low understanding. Thus, evidence for low patient understanding was lacking, and this requires further research. The second key finding is that in a number of contexts, patients expressed preference for receiving correspondence<sup>(7, 11, 34, 35, 42-44, 46, 52-55)</sup>. Patients can continue to use the letter(s) to refer to beyond discharge<sup>(34, 93)</sup> as a medication list reminder, and to share with friends/relatives as desired<sup>(34, 81)</sup>. Nevertheless, patient *choice* should still be acknowledged as the review did find evidence that not *all* patients want their letters; a practical way of addressing this would be to check with the patient that they want a letter in the first instance<sup>(7, 34, 40, 47, 49, 60)</sup>.

Systems for monitoring patient letters, e.g. the Newcastle Trust Policy for auditing and sharing letters with patients<sup>(60)</sup> seems prudent moving forward<sup>(17)</sup>. This is of particular relevance in the NHS given that guidelines for copying letters have been widely available since 2003<sup>(2)</sup> and yet in practice, many patients do not receive letters<sup>(42, 47, 52, 79, 105)</sup>. Given the wider context of a drive for patient-led care and patient-centred communication and decision-making<sup>(103)</sup>, this review is timely and relevant. The review findings have the potential to influence policy and improve practice. The results demonstrate how care can be improved through patient choice and good quality letter provision. However, current clinician views<sup>(33, 35, 36, 44, 49, 50, 65, 88)</sup> and hierarchical mimicking of practices of seniors<sup>(100)</sup> pose a barrier<sup>(40)</sup> to implementation and need addressing.

Review limitations

For this review we followed the RAMESES quality and publication standards for realist reviews<sup>(106, 107)</sup>. Quality assessment and analysis is to a degree dependent on

reviewer skills and reflexivity<sup>(108, 109)</sup>. Furthermore, analysis and inferences were 'subjective and interpretative'<sup>(110, 111)</sup>. However, because the steps we have taken for this review are transparent, other review teams can see and make judgements on result plausibility.

The resultant PT is limited by the quality and content of evidence reviewed. Some of the evidence found in sources was markedly thin, particularly in relation to costing information, recent clinician viewpoints, personalised letter copies, and influence on the doctor-patient relationship. Furthermore, there were a greater number of CMOCs relating to positive outcomes than negative outcomes, that is, when the intervention *does* work than *doesn't*. This may be rationalised by publication bias towards positive findings. Similarly, CMOCs for patients *not* receiving letters (nil intervention) were thin. Consequently, these evidence limitations constrained the detail available in the resultant PT in these areas.

The review is also limited by the inclusion and exclusion criteria; not all patient groups could be considered. Furthermore, the PT is limited by the representativeness of patient groups within sources. The usefulness of the programme theory to a general health population is affected by the participation bias; certain groups are more and less likely to participate and ethnic minorities, illiterate patients and other hard to reach groups are likely under-represented. It is essential to take this into account when considering the weight of the review recommendations for informing best practice of discharge communication.

It is hoped the PT may be used as a starting point for future research and be useful and practicable for informing policy and guidelines. It is acknowledged that the review is not exhaustive. However, this is not the intention of a realist review<sup>(112)</sup>.

### Suggestions for future research

Further research is needed to define the cost benefits of copying patients into discharge letters. Potential barriers such as clinician views and the current limited available clinician training on letter writing should be addressed. Since patient and clinician views were sometimes conflicting, a study which parallels both views alongside the same patient cases to understand reasons for any discrepancies would be useful and may provide valuable insights. Furthermore, the PT would benefit from further refinement given the identified limitations and in particular from more data from alternative settings.

### CONCLUSION

The resultant PT forms a basis for explaining how, when, why and for whom this intervention does and does not work. The resultant PT makes suggestions for how best practice of patients receiving discharge letters may be improved, although it should be considered that evidence for some aspects of the PT was lacking.

The review's key findings are that patient understanding is possibly greater than clinicians' perceive, patient choice is instrumental to increasing likelihood of desired patient outcomes, and clinician views of the intervention is a barrier to practice implementation. This barrier could be addressed through clinician training and organisational initiatives which guide, mandate, and monitor the intervention. Without hospital organisational support, it is unlikely this practice will be consistently adopted into practice given the barriers identified in the review. Given the drive for patient-centred care, involving patients in their healthcare communication is not something that should be applied inconsistently.

In conclusion, this review outlines how the intervention of patients receiving their discharge letters may *work* to increase the likelihood of positive effects.



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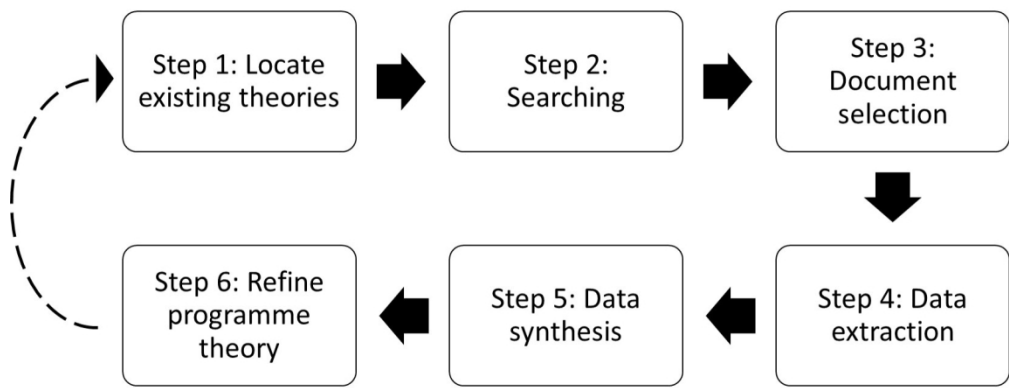


Figure 1



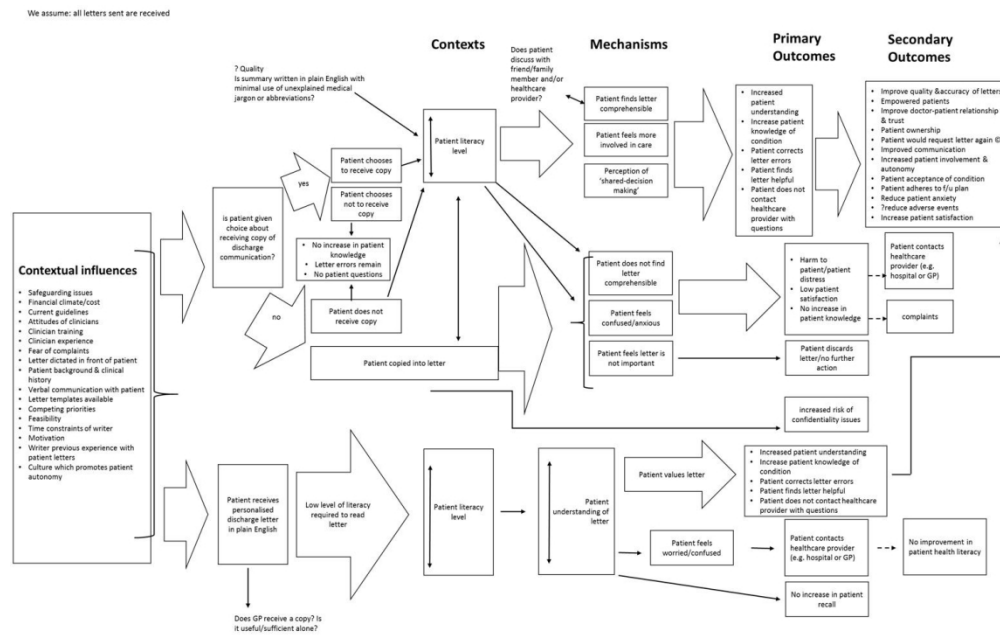


Figure 2

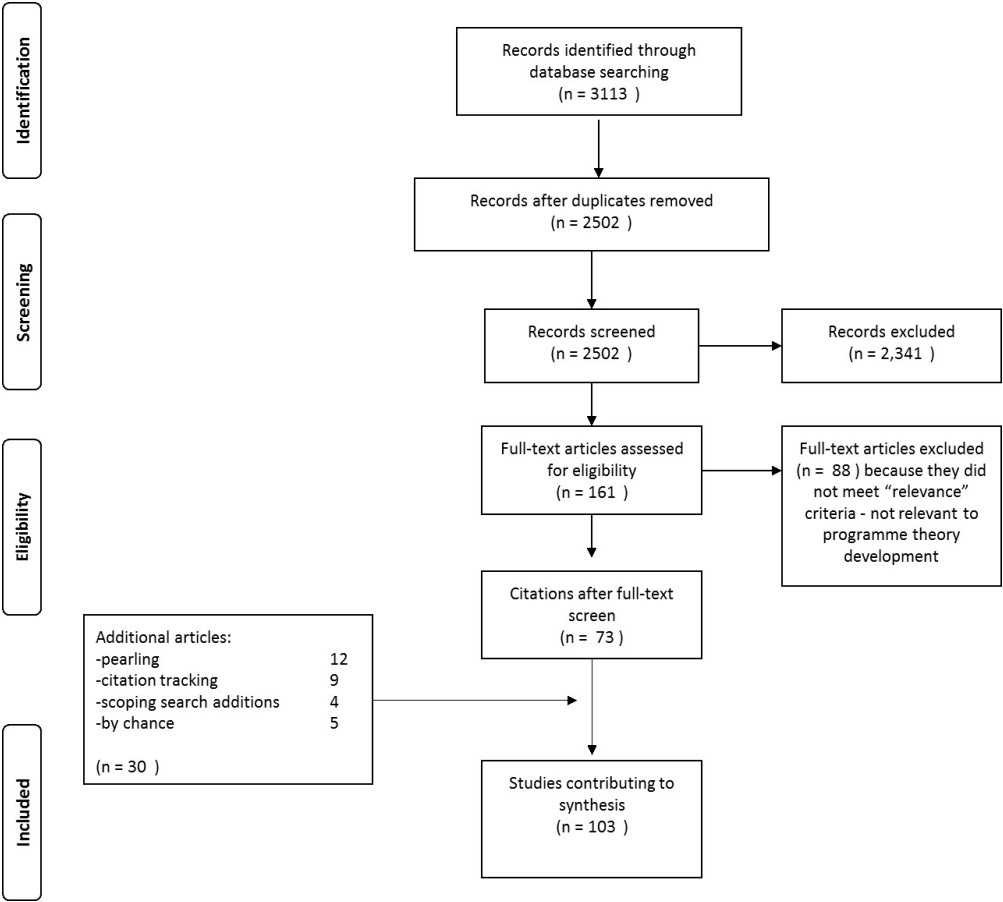


Figure 3



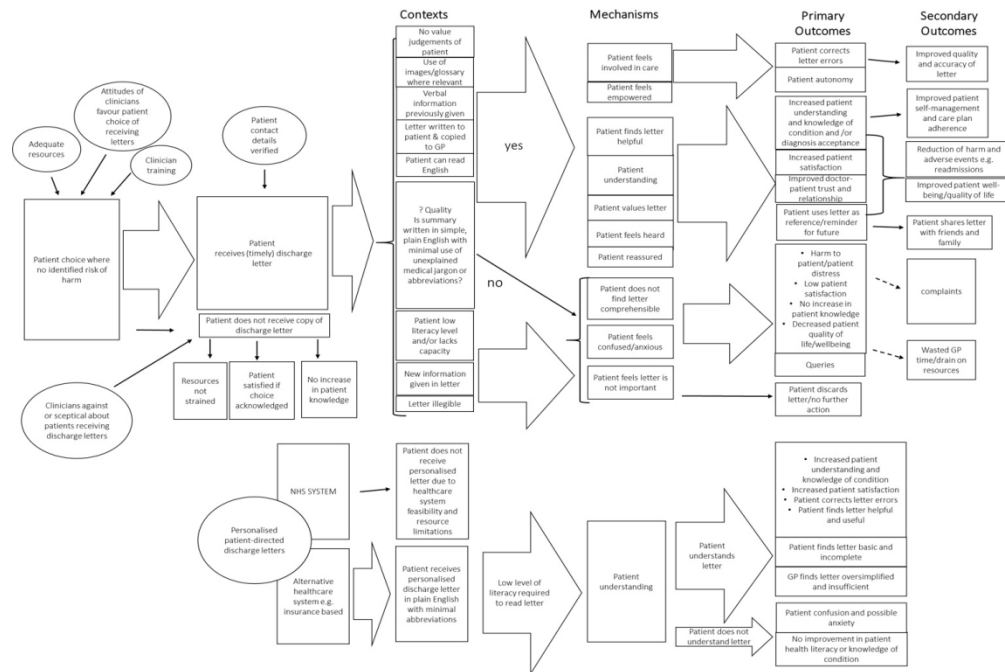


Figure 4

Search Terms and Sources Searched

Source	Search terms
MEDLINE	<div>1. written[All Fields] AND ("patient discharge"[MeSH Terms]</div> <div>2. ("patient"[All Fields] AND "discharge"[All Fields])</div> <div>3. ("patient discharge"[All Fields] OR "discharge"[All Fields]) AND ("communication"[MeSH Terms])</div> <div>4. ("communication"[All Fields] AND ("patient discharge"[MeSH Major Topic]) AND ("patients"[MeSH Terms])</div> <div>5. ("patients"[All Fields] OR "patient"[All Fields]) OR ("letter"[Publication Type] OR "correspondence as topic"[MeSH Terms])</div> <div>6. ("correspondence"[All Fields] AND ("patients"[MeSH Terms])</div> <div>7. ("patients"[All Fields] OR "patient"[All Fields]) AND "patient discharge"[MeSH Major Topic] AND ("communication"[MeSH Terms])</div> <div>8. ("communication"[All Fields] OR (receiving[All Fields] AND ("letter"[Publication Type] OR ("correspondence as topic"[MeSH Terms])</div> <div>9. ("letters"[All Fields] AND ("patients"[MeSH Terms] OR "patients"[All Fields] OR "patient"[All Fields]) AND ("patient discharge"[MeSH Major Topic])</div> <div>10. ("patients"[MeSH Terms] OR "patients"[All Fields] OR "patient"[All Fields]) AND ((copies[All Fields]) AND "patient discharge"[MeSH Major Topic])</div> <div>11. (((("patient discharge"[MeSH Major Topic] OR "patient discharge"[MeSH Terms]) AND letter[Other Term]) AND ("patients"[MeSH Terms] OR "patients"[All Fields] OR "patient"[All Fields])</div> <div>12. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11</div>
Web of Science	<div>1. Written patient discharge communication</div> <div>2. Patients receiving letters</div> <div>3. Patients receiving discharge letters</div> <div>4. Patient copies of written information</div> <div>5. 1 OR 2 OR 3 OR 4</div>
Department of Health	<div>1. Discharge communication</div> <div>2. Patient letters</div>

	3. Patients receiving letters
Royal	1. Discharge communication
College of	2. Patient letters
Physicians	3. Patients receiving letters
	4. Patient copy
	5. Patient copies
	6. Patients receiving written information

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Studies Found from Scoping Search

	Author	Year	Title	Document type
1	D N Wood, A Deshpande, M Wijewardena, and S S Gujral	2006	A Study of How Urology Out-Patients like to Receive Clinical Information	Published article
2	A Liapi, P J Robb, and A Akthar	2006	Copying clinic letters to patients: a study of patient attitudes	Published article
3	S Baxter, K Farrell, C Brown, J Clarke, and H Davies	2008	Where have all the copy letters gone? A review of current practice in professional–patient correspondence	Published article
4	D D Pothier, P Nakivell, and C E J Hall	2007	What do Patients Think about being copied into their GP Letters?	Published article
5	S L Todhunter, P J Clamp, S Gillett, and D D Pothier	2010	Readability of out-patient letters copied to patients: can patients understand what is written about them?	Published article
6	Royal College of Physicians	2013	Standards for the clinical structure and content of patient records	Guidelines
7	Royal College of Physicians	2017	Writing letters to patients – what’s the big deal?	Short website entry
8	A J Choudhry, Y M K Baghdadi, A E Wagie, E B Habermann, S F Heller, D H Jenkins, D C Cullinane, M D Zielinski	2016	Readability of discharge summaries with what level of information are we dismissing our patients?	Published article
9	M O’Reilly, M R Cahill, and I J Perry	2006	Writing to patients: a randomised controlled trial	Published article
10	Y Krishna, and B E Damato	2005	Patient attitudes to receiving copies of outpatient clinic letters from the ocular oncologist to the referring ophthalmologist	Published article

- and GP
- 11 B R O'Driscoll, J Koch, and C 2003 Most patients want copies of letters from outpatients, BMJ letter  
Paschalides outpatient clinics and find them useful
  - 12 H Hadjistavropoulos, H Biem, D Sharpe, M Bourgault- 2008 Patient perceptions of hospital discharge: reliability and validity Published article  
Fagnou, and J Janzen of a Patient Continuity of Care Questionnaire
  - 13 M Thornber 2009 Copying referral letters BJGP letter
  - 14 Department of Health 2000 The NHS Plan Report
  - 15 P White, A Singleton, and R Jones 2004 Copying referral letters to patients: the views of patients, Published article  
patient representatives and doctors
  - 16 NHS England 2016 Standards for the Guidance  
communication of patient  
diagnostic test results on  
discharge from hospital
  - 17 R Lin, R Gallagher, M Spinaze, H Najoumian, C Dennis, R 2014 Effect of a patient-directed discharge letter on patient Published article  
Clifton-Bligh, and G Tofler understanding of their hospitalisation
  - 18 S Vaidyanathan, C A Glass, B M Soni, J Bingley, G Singh, 2001 Doctor ± Patient Communication: Do people with spinal cord Published article  
J W H Watt, and P Sett injury wish  
to receive written information about their medical condition  
from the  
physicians after an outpatient visit or after a readmission in the  
spinal

unit?

19	J Flacker, W Park, and A Sims,	2007	Hospital Discharge Information and Older Patients: Do They Get What They Need?	Published article
20	J S Albrecht, A L Gruber-Baldini, J M Hirshon, C H Brown, R Goldberg, J H Rosenberg, A C Comer, and J P Furuno,	2014	Hospital Discharge Instructions: Comprehension and Compliance Among Older Adults	Published article
21	B M Buurman, K J Verhaegh, M Smeulers, H Vermeulen, S E Geerlings, S Smorenburg, and S E de Rooij	2016	Improving handoff communication from hospital to home: the development, implementation and evaluation of a personalized patient discharge letter	Published article
22	Department of Health	2003	Copying letters to Patients: Good practice guidelines	Guidelines
23	J Main	2008	Copying in or copping out?	BMJ letter
24	C D Shee	2008	Try it and see	BMJ letter
25	B McKinstry	2008	Copying patients in is not as simple as it seems	BMJ letter
26	D Jelley, and T van Zwanenberg	2000	Copying general practitioner referral letters to patients: a study of patients' views	Published article
27	K Treacy, J S Elborn, J Rendall, and J M Bradley	2008	Copying letters to patients with cystic fibrosis (CF): Letter content and patient perceptions of benefit	Published article

**Sources searched (step 2)**

	Sources	Results
1	MEDLINE	1596
2	EMBASE	558
3	CINAHL	100
4	DARE	2
5	ASSIA	47
6	Web of Science	205
7	ZETOC	29
8	AMED	26
9	NHS Digital (HSCIC)	0
10	NHS Evidence (public domain only)	244
11	DH	2
12	NICE Guidelines	0
13	Cochrane database of systematic reviews	21
14	EPPI-CENTRE	20
15	SCOPUS	38
16	Google Scholar	6
17	OpenGrey	3
18	GreyNet sources	0
19	ProQuest dissertations and theses	210
20	General Medical Council	0
21	Royal College of Physicians	5
22	Local Medical Committees (West Midlands)	0
23	Clinical Commissioning Groups (West Midlands)	0
24	SIGN	0
25	NHS Improvement	1
	<b>TOTAL RESULTS</b>	<b>3113</b>



**Full List of Search Strategies for each source**

Search strategy for electronic databases (MEDLINE and AMED)

1. letter\$
2. summaries\$
3. Correspondence
4. patient copies\$
5. patient letter
6. communication (MESH term if MEDLINE)
7. patient\$ receiving
8. written information
9. discharge document\$
10. patient-directed letter
11. personalised letter
12. personal letter
13. personalized letter
14. copy letter
15. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14
16. Hospital discharge (MESH if MEDLINE) AND 15
17. Patient discharge (MESH if MEDLINE) AND 15
18. 16 OR 17
19. 18 and patients (MESH HEADING if MEDLINE)
20. Patients adj3 receiving adj3 letter\*
21. Patients adj3 receiving adj3 discharge adj letter\*
22. patient adj3 cop\$ of written adj information
23. written adj3 patient adj discharge adj communication
24. secondary to primary adj care adj3 communication
25. hospital adj3 GP adj3 communication
26. writing adj3 to adj3 patients
27. 20 OR 21 OR 22 OR 23 OR 24 OR 25 OR 26
28. 27 OR 19
29. patient discharge letter
30. discharge communication
31. discharge letter
32. discharge summary
33. discharge summaries
34. 29 OR 30 OR 31 OR 32 OR 33 OR 34 OR 10 OR 11 OR 12 OR 13 OR 14
35. 34 OR 28
36. discharge correspondence
37. copy correspondence
38. doctor letter
39. copy letter
40. 36 OR 37 OR 38 OR 39
41. 40 OR 35

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Erasmus Hogeschool

Search strategy for EMBASE and DARE (adapted due to high search results in EMBASE and simpler searching filtration system in DARE):

1. patient directed letter
2. personalised letter
3. personal letter
4. personalized letter
5. copy letter
6. Patients adj3 receiving adj3 letter\*
7. Patients adj3 receiving adj3 discharge adj letter\*
8. patient adj3 cop\$ of written adj information
9. written adj3 patient adj discharge adj communication
10. secondary to primary adj care adj3 communication
11. hospital adj3 GP adj3 communication
12. writing adj3 to adj3 patients
13. patient discharge letter
14. discharge communication
15. discharge letter
16. patient discharge letter
17. discharge correspondence
18. copy correspondence
19. doctor letter
20. copy letter
21. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20
22. 21 OR discharge summary (DARE ONLY)

Search strategy for CINAHL (adapted due to high search results):

1. patient discharge letter AND patient discharge from hospital (CINAHL MH "Hand Off (Patient Safety)")
2. personalised letter AND patient discharge from hospital (CINAHL MH "Hand Off (Patient Safety)")
3. copy letter AND patient discharge from hospital (CINAHL MH patient discharge summaries)
4. discharge communication AND patient discharge from hospital (CINAHL MH patient discharge summaries)
5. discharge correspondence AND patient discharge from hospital (CINAHL MH patient discharge summaries)
6. copy correspondence AND patient discharge from hospital (CINAHL MH patient discharge summaries)
7. doctor letter AND patient discharge from hospital (CINAHL MH patient discharge summaries)
8. copy letter
9. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8

ASSIA and Web of Science and ZETOC and NHS evidence search strategy and NHS improvement and Cochrane database

1. (patient discharge letter) AND (discharge from hospital) AND "patient discharge" (\*for NHS EVIDENCE & improvement & SCOPUS- AND written)

2. (personalised letter) AND (discharge from hospital) AND "patient discharge" (\*for NHS EVIDENCE & improvement & SCOPUS - AND written)
3. (copy letter) AND (discharge from hospital) AND "patient discharge" (\*for NHS EVIDENCE & improvement - AND written)
4. (doctor letter) AND (discharge from hospital) AND "patient discharge" (\*for NHS EVIDENCE & improvement - AND written)
5. 1 OR 2 OR 3 OR 4
6. (FOR NHS EVIDENCE & improvement ONLY) copying hospital discharge letters to patients

ProQuest very high results (adapted terms)

1. personalised patient discharge letter AND "patient discharge" AND written AND patient information AND copy AND personalised AND copy letter AND doctor letter AND discharge communication copy OR letter "discharge from hospital"Google Scholar search: (many thousands of results when using above terms)

1. (personalised patient discharge letter) AND (discharge from hospital) AND "patient discharge" AND written AND patient information AND copy AND personalised AND copy letter AND doctor letter AND discharge communication AND written AND patient copy

Broad searches for X, Y, Z (websites and sources without indexing or electronic searching) e.g. Department of health

Used for: HSCIC and EPPI-CENTRE And Open Grey

The below search terms were entered into GMC yielding several hundred results. As results from GMC must be exported singularly these were screened on the webpage. The searches found no relevant results.

1. Discharge communication
2. Discharge
3. Patient discharge
4. Discharge letter
5. Discharge letters
6. Discharge summary
7. Discharge summaries
8. Patient letters
9. Patients receiving letters
10. Patients receiving letter
11. Patient copy
12. Copying patients
13. Patient copies
14. Patients receiving written information
15. Hospital discharge
16. Discharge correspondence
17. Discharge document
18. Discharge information
19. Patient discharge information

20. Copy letter
21. Doctor letter
22. Personal letter
23. Copy correspondence
24. Patient involvement
25. Patient access to records
26. Health informatics

\*searches adapted in NHS digital due to huge amount of irrelevant results around admission statistics. No relevant results could be found.

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List of Included Texts (full)

1. Ackermann S, Bingisser MB, Heierle A, Langewitz W, Hertwig R, Bingisser R. Discharge communication in the emergency department: physicians underestimate the time needed. *Swiss Med Wkly.* 2012;142:w13588.
2. Adams DC, Bristol JB, Poskitt KR. Surgical discharge summaries: improving the record. *Ann R Coll Surg Engl.* 1993;75(2):96-9.
3. Advancing effective communication, cultural competence, and patient- and family-centered care : a roadmap for hospitals. Joint Commission. 2014  
<http://www.jointcommission.org/assets/1/6/roadmapforhospitalsfinalversion727.pdf>.
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9. Bench S, Day T, Griffiths P. Effectiveness of critical care discharge information in supporting early recovery from critical illness. *Crit Care Nurse.* 2013;33(3):41-52.
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16. Buurman BM, Verhaegh KJ, Smeulders M, Vermeulen H, Geerlings SE, Smorenburg S, et al. Improving handoff communication from hospital to home: the development, implementation and evaluation of a personalized patient discharge letter. *International Journal for Quality in Health Care.* 2016;28(3):384-90.
17. Cannaby A-M. Improving the process of hospital discharge for medical patients [Ph.D.]. Ann Arbor: University of Leicester (United Kingdom); 2003.
18. Carol Lim KK, Chan SK, Chew EL, Anita Lim AF, Sararaks S, Ainul H, et al. Handoff communication - Let's do it right. *Medical Journal of Malaysia.* 2010;65:8.
19. Chantler C, Johnson J. Patients should receive copies of letters and summaries. *BMJ : British Medical Journal.* 2002;325(7360):388-.

20. Charlett SD, Bajaj Y, Kelly G. Writing to patients with the results of routine tests: A measure to improve access to outpatient clinics. *Otorhinolaryngologist*. 2009;2(3):73-4.
21. Choudhry AJ, Baghdadi YM, Wagie AE, Habermann EB, Heller SF, Jenkins DH, et al. Readability of discharge summaries: with what level of information are we dismissing our patients? *Am J Surg*. 2016;211(3):631-6
22. Damian D, Tattersall MH. Letters to patients: improving communication in cancer care. *Lancet*. 1991;338(8772):923-5.
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24. Department of Health. The NHS Plan. 2000 <http://webarchive.nationalarchives.gov.uk>.
25. Department of Health. Copying letters to patients: good practice guidelines. 2003 <http://webarchive.nationalarchives.gov.uk/>
26. Discharge planning : best practice in transitions of care. The Queen's Nursing Institute. 2016 [https://www.qni.org.uk/wpcontent/uploads/2016/09/discharge\\_planning\\_report\\_2015.pdf](https://www.qni.org.uk/wpcontent/uploads/2016/09/discharge_planning_report_2015.pdf).
27. Doohar P, Syed A, Liu J, Chopra A, Bradpiece H, Jenkins S, et al. Copying letter to patients- distress or satisfaction? *Eur J Cancer*. 2012;48:S151.
28. Exploring patient participation in reducing health-care-related safety risks. 2013 [http://www.euro.who.int/\\_\\_data/assets/pdf\\_file/0010/185779/e96814.pdf](http://www.euro.who.int/__data/assets/pdf_file/0010/185779/e96814.pdf).
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Title

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Mitchell, J. R.  
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Writing to and for patients

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Butow, PN  
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Writing to our patients

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Copying letters to patients: good practice guidelines

83 Cannaby, Ann-Marie

Improving the process of hospital discharge for medical patients

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Braid, J. J.  
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Reilly, M. O.  
Cahill, M.  
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Liapi, A.  
Robb, P. J.  
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Roberts, Nicola J.  
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Writing to patients: 'putting the patient in the picture'

Copying patient letters - Making it work

Copying clinic letters to patients: a survey of patient attitudes

How useful are post consultation letters to patients?

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Roberts, N. J.  
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Paravastu, SCV  
Lepping, P  
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Copying clinic letters to surgical patients

Perkins, Paul  
Jordan, Alice  
Prentice, Wendy  
19 Regnard, Claud  
Copying letters to patients: a survey of patients and GPs views

Singh, Sarvpreet  
Budeda, B  
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Do patients want copies of their GP letters?—our experience with 7250 patients

Walji, M.  
Loeffelholz, J.  
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A human-centered design of a dental discharge summary (DDS) for patients

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O'Brien, S.  
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- Rao, M.  
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Nakivell, P.  
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- Letters Copying letters to patients  
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Treacy, K.  
Elborn, J. S.  
Rendall, J.  
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try it and see

Copying letters to patients with cystic fibrosis (CF): letter content and patient expectations of benefit

Zeng-Treitler, Q.  
Kim, H.  
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McEniry, B.  
63 Pillay, I.

Improving patient comprehension and recall of discharge instructions by supplementing free texts with pictographs

How do patients in a rural setting respond to receiving a copy of their general practitioners letter?

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Farrell, K.  
Brown, C.  
Clarke, J.  
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- Fayers, T.  
Abdullah, W.  
Walton, V.  
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Bajaj, Y.  
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Brodie, T  
3 Lewis, DR A survey of patient views on receiving vascular outpatient letters

Lepping, Peter  
Paravastu, Sharath CV  
Turner, Jim  
Billings, Peter  
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Copying GP letters to patients: a comprehensive study across four different departments in a district general hospital

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Todhunter, S. L.  
Clamp, P. J.  
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copy them in  
  
Readability of out-patient letters copied to patients: can patients understand what is written about them?

55 Pierce, LI How to choose and develop written educational materials

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Boleh balik!

handoff communication - lets do it right

Synthesis and conceptual analysis of the SDO programme's research on continuity of care

Do patients understand discharge instructions?



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                                 Consultation survey

Year	Country	Source type	Healthcare setting	Study design
1979	US	journal	Health insurance system	discussion
1989	England, UK	journal	nhs	questionnaire
1989	England, UK	journal	nhs	intervention+questionnaire
1990	England, UK	journal	nhs	discussion piece



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1991	Australia	Journal	public funded healthcare system	randomised study design
1991	England, UK	book	NHS	discussion
1993	England, UK	journal	nhs	Questionnaire study
1998	Scotland, UK	Journal letters	NHS	qualitative interview study

1999	Australia	journal	public funded healthcare system	mixed methods study in view + ques
1999	Scotland, UK	Journal Commentary	NHS	discussion
2000	Australia	journal	public funded healthcare system	review
2000	US	journal	Health insurance system	descriptive study

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2002	England, UK	Journal letters	NHS	Discussion piece
2002	England, UK	Journal letters	NHS	postal survey
2002	England, UK	journal	NHS	Discussion piece
2002	England, UK	online	nhs	guidelines
2003	England, UK	Journal letters	NHS	Discussion piece
2003	England, UK	journal	nhs	questionnaire
2003	England, UK	DOH archive	NHS	guidelines

2003 England, UK DOH archive NHS guidelines

2003 England, UK ProQuest nhs Thesis (PhD)

2004 England, UK journal nhs discussion piece

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2004	England, UK	journal	nhs	service evaluation
2005	England, UK	Journal	National Health Service	no intervention. Discussion piece
2005	England, UK	journal	NHS	interviews
2005	England, UK	journal	NHS	questionnaire

2005	Ireland	journal	public healthcare system	qualitative interview study
2005	England, UK	journal	nhs	questionnaire pilot study
2006	England, UK	journal	NHS	pilot/standard questionnaire format
2006	England, UK	journal	NHS	intervention

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2006	England, UK	journal	nhs	discussion
2006	England, UK	journal	nhs	a randomised controlled trial
2006	Australia	journal	public funded healthcare system	discussion
2007	England, UK	Journal	National Health Service	questionnaire
2007	England, UK	Journal	NHS	Questionnaire



2007	England, UK	journal	NHS	questionnaire
2007	England, UK	journal	NHS	questionnaire
2007	England, UK	journal	NHS	pilot of intevention
2007	US	Symposium abstract	Health insurance system	abstract

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2007	England, UK	journal	nhs	questionnaire
2007	Ireland, UK	journal	NHS	questionnaire
2007	England, UK	journal	NHS	questionnaire
2008	England, UK	Journal letters	NHS	Discussion piece
2008	England, UK	Journal letters	NHS	Discussion piece

2008	England, UK	Journal letters	NHS	Discussion piece
2008	England, UK	journal	NHS	Discussion piece+questionnaire
2008	US	journal	Health insurance system	pilot intervention
2008	Ireland	journal	public healthcare system	experimental study

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2008	England, UK	journal	nhs	review
2009	England, UK	journal	NHS	nonrandomized interventional clinical s
2009	England, UK	journal	nhs	experimental study

2010	New Zealand	Journal	public funded healthcare system	Questionnaire on intervention
2010	England, UK	journal	NHS	postal survey
2010	England, UK	journal	NHS	Discussion piece
2010	England, UK	journal	NHS	Discussion piece
2010	US	journal	Health insurance system	discussion

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2010	Malaysia	conference listing	government's Ministry of Health	abstract for review
2010	Malaysia	conference listing	government's Ministry of Health	abstract
2010	England, UK	online	nhs	report
2011	US	journal	Health insurance system	observational qualitative design

2011	Ireland, UK	online	nhs	guidelines
2011	us	online	insurance system	guide and report
2012	Sri Lanka	journal	public healthcare	prospective randomized design.
2012	Croatia	journal	health insurance plan	experimental study



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2012	Australia	journal	public funded healthcare system	pilot intervention
2012	England, UK	conference listing	NHS	abstract for questionnaire study
2012	US	conference listing	Health insurance system	abstract for cohort study
2013	England, UK	journal	NHS	questionnaire

2013	England, UK	journal	NHS	questionnaire
2013	England, UK	policy document	NHS	guidelines/policy
2013	New Zealand	journal	public funded healthcare system	protocol
2013	England, UK	online	NHS	guidelines
2013	Croatia	journal	health insurance plan	experimental study

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2013 Norway      Journal listing      public funded healthcare system      abstract for pre-post study

2013 The Netherland Journal listing      Health insurance system      report

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2013	England, UK	journal	nhs	review
2013	Europe	online	N/A	recommendations
2014	New Zealand	journal	public funded healthcare system	systematic review

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2014	Netherlands	journal	Health insurance system	a quasi-experimental study
2014	US	journal	Health insurance system	discussion
2014	US	journal	Health insurance system	prospective cohort study

2014	Australia	journal	public funded healthcare system	A prospective randomised controlled trial
2014	England, UK	journal	nhs	A questionnaire survey and retrospective analysis exploring feasibility and effectiveness
2014	Spain	Journal letters	public funded healthcare system	Letter to editor
2014	US	online	Health insurance system	guidelines

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2014	England, UK	online	nhs	review
2015	US	journal	Health insurance system	discussion
2015	US	journal	Health insurance system	guidelines
2015	US	journal	health insurance	survey

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2015 England, UK journal nhs a pilot cluster  
randomised controlled trial

2015 England, UK online nhs report



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2016 US	journal	Health insurance system	qualitative interview study
2016 Italy	journal	public healthcare system (national health discussion)	
2016 US	journal	Health insurance system	pilot
2016 England, UK	DOH archive	NHS	guidelines

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10 2016 US journal Health insurance system cohort study  
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18 2016 The Netherland journal Health insurance system before-after evaluation  
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2016 Switzerland	journal	private health insurance	single-center cross-sectional study
2016 England, UK	online	nhs	best practice guidelines

2017	Australia	Journal	public funded healthcare system	a randomised controlled study
2017	England, UK	online post	NHS	Discussion piece
2017	England, UK	online	NHS	guidelines

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Topic focus

Study aim

No. of subjects

summary instructions

to encourage better recording of clinical stays

n/

patient views on helpfulness of discharge instructions.

Objective-To determine whether a booklet given to patients being discharged from hospital giving details of their admission and treatment increased their knowledge and recall when reviewed in outpatient clinics.'

131

information card usefulness

To determine the attitudes of patients discharged from hospital and their general practitioners to a new information card giving details about admission, diagnosis, and treatment and to assess the completeness of the information on the card.'

258

writing to patients

to discuss advantages and disadvantages of writing to patients

N/A

letters to patients	to assess the role of personal patient letter	48
writing to patients	to discuss involvement of patients in hospital to GP communication specified	
Improving discharge summaries	"assess the quality of previous discharge summaries and the new computergenerated discharge summaries,"	118
use of written summaries	to explore patients' attitudes about and their use of written summaries of their genetic consultations for hereditary breast and ovarian cancer	40

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	"To identify the proportion of oncologists, surgeons and GPs in favour of offering cancer patients an audiotape of the consultation		
To gather current practices and views of different (and/or a summary letter."			319
writing to patients	To discuss the benefits of writing to patients	n/	
discharge instructions	to examine 'the purpose, advantages, and disadvantages of three commonly used types of discharge instruction'	N/A	
health literacy of patients	to look at literacy for health information		195

Patient copies of letters - focus on benefits	N/A	N/A	
Copies of clinical correspondence to patients	to discuss concerns of clinicians		229
copies of letters	To discuss copying patient letters and guidelines for letters	N/A	
hospital standards	to outline NHS standards	N/A	
Copies of letters	To discuss the benefits of copy patient letters	N/A	
patients views on copy letters	to see whether patients receiving a copy letter improved satisfaction with their consultation		117
NHS plans	to provide guidelines and standards of patient care	n/a	



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copying letters to patients

to provide guidelines and standards of patient care

n/

patient education

"To explore the barriers to the process of discharge and to investigate possible interventions to overcome them."  
to discuss the current situation with copying letters to patients

N/

copies of letters

whether patients value copy of letter	to explore the value patients attach to receiving such a letter and to estimate the cost of this practice.'	49
Copying all letters to patients	N/A	N/A
Copies of letters	To understand patient attitudes to copies	52
Copies of letters	To gather opinions of clinicians and patients on copy letter	117

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summary letters for patients	To explore consultant, general practitioner and patient attitudes towards the proposal that following an outpatient consultation, consultants should consider communicating directly with patients in the form of a summary letter, with a copy to the referring general practitioner or other professionals as appropriate'	48
patient copy letters	"to describe how one acute Trust has used basic change management principles to implement the initiative."	76
Copies of letters	to examine attitudes of ENT patients on copies of letters	200
letters to patients	To gather opinions of patients on receiving letter	84

patient letters	to discuss patient copies and patient letters	n/	
patient letters	to look at patient recall with patient letters		150
electronic discharge letters	to improve discharge communicaton through use of electronic letter invervention	None Specified	
Copies of GP letters	to assess patients' responses to the proposed legislation (copies of GP correspondence)		500
Copying GP letters to patients with glossary	to evaluate a lung disease glossary to enhance patient understanding of terms used within the letter sent to their GP.		93

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copies and personal patient letter

To gather opinions of clinicians and patients on copy letter

175

Copies of letters

To gather opinions of clinicians and patients on copy letter

21

copies of letters

" to determine how many  
patients attending Trauma and Orthopaedic clinics  
actively wished to receive copies of these letters"

7250

patient discharge summary

to  
generate a paper-based discharge summary prototype.'

N/A

patients views on copy letters	to evaluate patients views on receiving copy letters	220
patient satisfaction with discharge letters	to assess patient satisfaction with discharge letter copies	78
patient views on copies of letters	to find out what patients think of being copied into their letters	500
Copies of letters	Is copy letters a new target as a cop out for good communication	N/A
Copies of letters	To discuss the drawbacks on patient copies of letters	N/A

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copies of letters

To discuss the benefits of copy patient letters

copies of letters

to assess readability of patient letter

use of pictures with instructions to improve understanding: to test use of pictures with discharge instructions for patients

13

patients receiving letters

To assess how patients feel about receiving a copy of their letter

130

patients receiving letters	"This article reviews the literature in relation to patients receiving copies of health professional correspondence. It examines progress in adopting the practice 3 years on from its introduction as policy in the UK, and considers potential benefits and obstacles to implementation."	N/
use of written discharge instructions plus photographs	"To evaluate the extent to which patients unnecessarily restrict activities of daily living after routine cataract surgery and to test interventions to increase activity."	150
test results after discharge	to assess writing to patients with test results after discharge	100



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Copying letters

to find out how valuable patients find copies of letters

68

Copies of letters

to determine whether patients are satisfied with their current communication or prefer alternative modes, overall and between different specialty clinics

483

copies of letters

To discuss copying patient letters and guidelines for letters

N/

copies of letters

to assess readability of patient letter

N/

education materials

to promote healthy behaviours through patient education

n/

discharge communication	"identifying strategies that are effective in improving discharge not specified	
discharge information	to improve discharge communication n/	
Service delivery	"to identify what influences the experience and delivery of continuity of care both overall and for different patient groups"	193
patient understanding	to assess patient understanding of discharge instructions	50

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discharge documents

to report on discharge standards

medical activities and care

to identify ways of improving care

patient information

to assess whether patients prefer a copy of discharge summary

patient letters

to look at students writing letters to patients

N/

N/

130

none specified

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8		"To determine the effect of a patient-directed	
9		discharge letter (PADDLE) on patient knowledge and	
10	patient letters	understanding of their diagnosis and treatment plan."	62
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18	copying letters to patients	to look at patients response to receiving copy letters	217
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26	impact of discharge letter to patients	To look at use of discharge letter	332
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32	letters to patients	To gather opinions of patients on receiving letter	124
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copies of letters

" to evaluate  
this service as well as explore patient  
preferences and any issues that may affect  
the security of confidential information."

94

copies of letters

to outline policy for sharing letters with patients

readability

"to enhance the semantic annotation and dynamic  
hyperlinking algorithms to link topic-specific web pages for  
difficult terms found occurring in Discharge Summary text."

patient records

to provide guidance for appropriate and good standards of clinical

patient letters

to look at students writing letters to patients

none specified

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3 "to investigate whether a new template for drug information  
4 (based on  
5 the IMM model) could increase readability and usefulness for  
6 the  
7 patient information patients, compared with the standard discharge letter."  
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26 "to evaluate a strategy for improving  
27 our patients' recall of their instructions for taking pain  
28 medication."  
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discharge information

patient involvement

content

to look at effectiveness of discharge information through review

to explore relationships between patient rights and safety

to assess content of good quality discharge summary

406

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Erasmushogeschool .  
d by copyright, including for uses related to text and data mining, AI training, and similar technologies.  
N/  
N/

discharge process

to evaluate the discharge bundle

428

to look at different ways of delivering discharge instructions

not specified

joint commission standards

to test patient understanding of discharge instructions in relation to 30 day readmission rates

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patient letters	to determine "patient understanding of the reasons for hospitalisation, in-hospital tests, treatments and post-discharge recommendations, and whether a brief patient-directed discharge letter (PADDLE) delivered during a brief discussion prior to discharge would improve understanding."	67
personalised discharge patient letters	to explore feasibility of providing patients with personalised discharge letters	232
Patients receiving letters and letter quality	to discuss patient letters and discharge process from surgery	Note specified
hospital communication	to provide guidance on hospital activities	N/A

care transitions

to provide guidance on hospital activities

discharge planning  
discharge education

to discuss ways of improving discharge planning and information/  
to provide guidance on patient discharge n/

patient understanding

to examine patient comprehension of discharge instructions

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discharge packs

"To evaluate the feasibility and effectiveness of an information pack, based on selfregulation theory, designed to support patients and their families immediately before, during and after discharge from an intensive care unit (ICU)."

General Practice

to report on managing the interface with hospitals

N/A

158

	to characterize the variation in needs and preferences regarding the ED discharge process by health literacy and identify novel ideas for process improvement from parents and patients.'	
to look at unmet needs at discharge		51
discharge communication	To discuss the importance and appropriate practice of discharge	50
test of patient orientated discharge summary	to look at use of patient summary	>20
discharge process	to provide guidance on discharge practice in the NHS	n/a

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readability of discharge summaries	"to assess the readability of patient hospital dismissal summaries and compare this to the patient's educational level."	497
patient letters	"To develop, implement and evaluate a personalized patient discharge letter (PPDL) to improve the quality of handoff communication from hospital to home."	141
patients receiving letters	looking at patients receiving copies of letters	9

discharge information for patients	"investigating and improving physician– patient communication in an ED discharge setting by identifying the information that needs to be covered in this interaction"	98
discharge planning	to report on discharge standards	608

N/A

16383

Type of intervention	Form of discharge communication	Specialty
n/a	discharge summary & instructions	none specified
discharge instructions	discharge instructions	cardiology
discharge information card	discharge instructions	general medical ward
N/A	patient letter	diabetes clinic



Patient sent personal letter	personal patient letter	Oncology
none specified	none specified	diabetes clinic
N/A	N/A	None specified
patient given summary	summary	Oncology

N/A	Copies & personal summaries	Oncology, surgery & general practice
patient letter	patient letter	Eye care
N/A	discharge instructions	Emergency Department
discharge instructions	discharge instructions	Emergency Department

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N/A	Copy	N/A
patient sent copy	Copy	none specified
N/A	Copy	none specified
N/A	discharge summary	none specified
N/A	Copy	None specified
copy letter	copy of discharge letter	ENT
n/a	copy of discharge letter	n/a

n/a

copy of discharge letter

n/a

booklet and facilitated presentation discharge booklet

none specified

N/A

discharge letter

none specified

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telephone call

copy of discharge letter

Dermatology

N/A

Copies of all letters

all

patient sent copy

Copy

ocular oncology

N/A

Copy

rheumatology

discharge summary	discharge summary	none specified
copy of letter	copy of letter	none specified
patient offered copy	Copy	ENT
copy of letter	Copy	cardiorespiratory

n/a	copy & patient letter	none specified
patient letter	patient letter	haematology
copy	copy	None specified
N/A	Copies of GP correspondence	colorectal surgery
Copy of letter + glossary	copy + glossary	Respiratory

N/A

copy &amp; personal letter

mixed

N/A

Copy

palliative care

copy of letter

Copy

Trauma and Orthopaedic

N/A

discharge summary

dental



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copy letter

copy of discharge letter

diabetes clinic

copy

copy of discharge letter

gynaecology

copy

copy of discharge letter

ENT

N/A

Copy

N/A

N/A

Copy

None specified

N/A

Copy

none specified

N/A

Copy

none specified

instructions + pictures

instructions + pictures

?Cardiology application but volunteers  
healthy

copy

copy

Geriatric and general internal medicine

For peer review only

N/A	copy	N/A
discharge instructions/photograph	discharge instructions	Eye care
patient letter	patient letter	otolarngology

Sent copy of letter

Copy

Vascular

patient sent copy

Copy

paediatrics, psychiatry, medicine and surgery

N/A

Copy

none specified

N/A

Copy

none specified

n/a

n/a

none specified

For peer review only

none specified	none specified	none specified
n/a	n/a	n/a
N/A	discharge information	none specified
telephone call	instructions	Emergency Department

N/A	discharge information	none specified
N/A	patient information	none specified
copy of discharge summary in native language variation)		none specified
patient letter	patient letter	none specified

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patient directed letter

patient letter

cardiology 47, respiratory 10,  
endocrine & general medicine 5

copy

copy of discharge letter

Oncology

copy of discharge letter

copy of discharge letter

Oncology

N/A

Copy

fracture clinic

N/A	Copy	urology
N/A	Copy	none specified
N/A	discharge summary	none specified
n/a	n/a	none specified
patient letter	patient letter	none specified





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16	mixed	discharge information	critical illness/general ward
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18	N/A	patient information	none specified
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26	N/A	discharge summary	Emergency Department
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For peer review only

discharge bundle	the personalised patient discharge letter	medical
technology	discharge instructions	none specified
discharge instructions	discharge instructions	heart failure patients (cardiology)

patient directed letter	patient letter	cardiology, respiratory and endocrinology wards
personalised patient discharge letter	personalised patient discharge letter	medical, surgical and traumapatient pop
N/A	copy	Surgery
N/A	discharge information	none specified

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N/A

discharge information

Geriatric

n/a  
n/a

discharge instructions  
n/a

none specified  
none specified

discharge instructions

discharge instructions

Emergency Department

For peer review only

patient discharge pack	patient discharge pack	Intensive Care Unit
N/A	discharge information	none specified

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n/a

discharge process

Emergency Department

n/a

discharge instructions

Internal Emergency Medicine

patient directed letter

patient directed letter

mix of specialities

n/a

n/a

n/a

discharge summary

discharge summary

trauma

personalised patient discharge letter

medical ward

copy

copy

Oncology (breast cancer)



For peer review only

discharge information

discharge information

Emergency Department

N/A

discharge information

none specified

patient sent copy	Copy	gastroenterology
N/A	Copy	N/A
N/A	Copy	none specified

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Restrictions/exclusions

Participant mix

Professional mix

none specified

none specified

none specified

none specified

none specified

none specified

none specified

none specified

3 consultants

none specified

none specified

none specified

Patients who did not speak English (14) or who were considered too ill or disabled to be interviewed (7) were also excluded.

none specified

Oncology outpatients eligible

diabetic patients

consultants

none specified

None specified

None specified

GPs

N/A

ALL

ALL

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None specified

156 Onc,55 surg, 108 GPs

GPs, surgeons, oncologists

none specified

outpatients

none specified

none specified

none specified

none specified

none specified

none specified

none specified

N/A

N/A

N/A

N/A

none specified

none specified

none specified

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n/a

n/a

n/a

"Speciality specific discharge, e.g. Neonatal or psychiatric  
• Articles written in a language other than English  
• Studies of pharmaceutical interventions  
• Articles on children/adolescent discharge  
• Discharge from outpatients, day cases or A&E (in patient stay required)"  
  
none specified

inpatients

none specified

hospital and community staff

none specified

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none specified

none specified

none specified

N/A

ALL

ALL

N/A

30 females and 22 males, aged between 24 and 87 years (median 61 years)

consultants

None specified

patients

mix of doctors and nurses



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For peer review only

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none specified	16 patients	20 consultant GPs
none specified	none specified	hospital staff
None specified	100 adults, 100 children/parents	clinic doctors
none specified	none specified	none specified

none specified

none specified

none specified

none specified

outpatients

consultants

None specified

None specified

nurses

Patients attending either  
of the two weekly clinics under the  
supervision of one consultant surgeon  
(MP Saunders) were recruited.

outpatients

1 consultant surgeon

None specified

ALL

Non-clinical staff, consultants

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None specified

patients

doctors and n

None specified

patients

GPs

none specified

outpatients

none specified

none specified

none specified

none specified

none specified

none specified

none specified

none specified

gynaecology surgery patients

1 consultant surgeon

#### INCLUSION CRITERIA

1. Patients who had been seen in the RUH ENT out-patient department during the preceding 2 years during which copy letters were being offered routinely.

2. Adults or parents of children who were patients.

#### EXCLUSION CRITERIA

1. New patients.

2. Children.

Where patients were unable to complete the questionnaire by themselves, assistance was offered.

outpatients

consultants

None specified

None specified

None specified

None specified

None specified

None specified

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none specified

none specified

none specified

none specified

none specified

none specified

none specified  
letters withheld at doctors discretion e.g.  
serious diagnosis. Letters written by clinician  
not taking part excluded

healthy volunteers  
  
elderly outpatients

none specified  
  
hospital clinicians

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None specified

none specified

none specified

none specified

none specified

none specified

discharged patients

outpatients

specialist registrar

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all patients (both new and follow up) attending a vascular outpatient clinic between the dates of 20 August 2008 and 19 November 2008.	Vascular outpatients. 63% male. Median age 73	consultants
Patients attending four specialty outpatient clinics – paediatrics, psychiatry, medicine and surgery	Any	none specified
none specified	none specified	none specified
none specified	none specified	none specified
none specified	none specified	none specified

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28 n/a

29 n/a

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33 N/A

34 N/A

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40 none specified

41 mixed patients

42 none specified



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N/A  
  
N/A

N/A  
  
N/A

N/A  
  
N/A

none specified

newly diagnosed patients with noncommunicable  
chronic diseases

none specified

none specified

none specified

trainee doctors/medical students

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Erasmus Hogeschool - Rotterdam, AI training, and similar technologies.

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10 none specified

inpatients

none specified

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18 none specified

breast unit patients

none specified

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21  
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26 n/a

n/a

n/a

27  
28  
29  
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31  
32 adults

all patients

none specified

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none specified

none specified

consultants

none specified

none specified

none specified

none specified

none specified

none specified

none specified

none specified

none specified

none specified

none specified

3 family medicine experts & medical students

none specified inpatients

"over 18 years of age and discharged on

analgesics

with verbal instructions only (e.g. paracetamol,  
NSAIDs

and/or tramadol, as reported in patient's file)

were eligible

to take part. Exclusion criteria were: patients

unable to read

and speak Dutch, patients with missing data

(particularly

telephone number), patients who could not be

contacted

by telephone within 3 days of their ED visit,

patients

without access to e-mail and patients who

refused to take

part."

ED patients who met criteria

none specified

none specified

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"Inclusion

- 1. Published primary research
- 2. Information provided during critical care discharge to general care area (ward)
- 3. Adult patients or family members receiving information
- 4. Evaluation of effects of information
- 5. Views of health care professionals

Exclusion

- 1. Discussion papers
- 2. Literature reviews
- 3. Descriptions of information"

N/A

mix of patients

hospital staff

N/A

N/A

none specified

none specified

none specified

(1)  
18 years or older, (2) acutely admitted at one  
of the four  
general medicine wards for more than 48  
hours, (3)  
discharged home, (4) able to speak or  
understand Dutch,  
(5) have a working telephone, (6) showed no  
notification of  
cognitive impairment in the medical record,  
and (7) had  
an estimated life expectancy of more than  
three months.

those who met criteria

none specified

none specified

none specified

none specified

none specified

heart failure patients

cardio doctor

"Inclusion

criteria were that the participants were  
medical  
patients (non-surgical), sufficiently proficient in  
English  
that they could read and communicate without  
interpretation,  
were independent in their self-care, were to be  
discharged home and not to other facilities,  
and had a life  
expectancy greater than 6 months."

inpatients

hospital clinic

>18 years. • Critical care stay (level 2 or 3) >72 hc inpatients

hospital nurse

None specified

None specified

None specified

N/A

N/A

N/A

N/A

N/A

N/A

none specified  
none specified  
"Patients were  
excluded for: high acuity/distress per the  
Attending ED  
physician, altered mental status, aphasia,  
developmental  
delay, dementia, or insurmountable  
communication barrier,  
non-English speaking patients, possible sexual  
assault, and  
acute psychiatric illness."

none specified  
none specified

none specified

none specified  
none specified

hospital staff



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hospital staff

N/A

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10 none specified

asthma patients,

none specified

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17 none specified

chronic lower back pain patients

hospital nurses and clinicians

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28 none specified

none specified

none specified

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37 n/a

n/a

n/a

"Exclusion criteria included all in-hospital deaths none specified

none specified

"All consecutive patients of 18 years and older, inpatients

hospital staff

None specified

None specified

three consultants

Exclusion: High-risk features in an electrocardiogram (ECG; e.g., ST elevation) and/or increased high-sensitive troponin levels (to exclude high-risk patients).

- None of the following cardiovascular risk factors: smoking history, diabetes, hypertension, dyslipidemia, age above 50 years, family history of CHD (to exclude lowrisk patients).

- Dementia, as defined by a score of <7 on a clock-drawing test.

- Age under 18 years.

- Limited German language skills (German being the default language at the hospital).

Chest pain patients

hospital physician

N/A

N/A

N/A

All adult patients who attended the clinic and were undergoing a category 1 (urgent) endoscopic procedure were eligible for the study. Participants were required to be able to read and write in English.	Eligible patients	6 consultants
N/A	N/A	N/A
none specified	none specified	none specified

Findings/conclusion	Rigour/quality assessment (credibility and trustworthiness)	Relevance
it is duty to properly record clinical stay information and patient instructions	low	low
iving patients an information booklet at discharge from hospital appreciably increased the accuracy and thoroughness of their recall of important medical details concerning their illness and its treatment. The booklet was shown to be feasible, helpful in the outpatient clinic, and preferred by most general practitioners.'	medium	low
Giving an ipformation card to all patients at discharge was feasible and favoured by most patients and their general practitioners. Having made minor changes in design, we think that we have produced an information card that is a convenient size and will improve communication between patients, their general practitioners, and hospital doctors. We now issue this card routinely to all patients discharged from our ward and hope that it might be widely adopted.'	medium	very low
received no complaints from this practice.	low/medium	low

1			
2			
3	"In our study, almost half the patients receiving bad news		
4	found their letter distressing to some extent; however, with 1		
5	exception, all patients were pleased to have received it." "The		
6	study shows that letters to		
7	"patients are a useful method of improving patient		
8	satisfaction and recall in clinical consultations. They		
9	also provide a permanent record of the consultation,		
10	which can be kept for future reference, and		
11	encourage greater patient involvement in their care."	publication, rigour - med/high	medium
12			
13	reports and documents should be shared with patients	low/medium	very low
14	"The recent introduction of new information technology		
15	to the NHS has not only improved the ability to		
16	carry out surgical audit, it has allowed the production of		
17	computerised discharge information on patients. This		
18	shorter, more structured form of discharge summary is		
19	clearly more acceptable to general practitioners and		
20	potentially may be used by all hospital specialties to		
21	provide a speedier, more efficient communication service		
22	to the general practitioner."	medium	medium
23	"On the basis of our findings we suggest		
24	that genetic counsellors send patients a letter		
25	summarising their consultations as this may		
26	result not only in an increase in the patient's		
27	understanding, but may prevent the miscom-		
28	munication of genetic information within the		
29	family."	Opinion based but published - low/med	low
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"Given that the majority of doctors supported the provision to some or all patients of summary letters, and the majority of oncologists supported the provision of a consultation audiotape in at least some cases, it may be useful to establish a forum where physicians and patients can develop guidelines for the use of these information

aids. Such guidelines might suggest appropriate criteria for determining

when to offer such aids, as well as a suggested format."

"For many people with eye disease, particularly if vision is threatened, fear of the unknown is a major cause of stress and anxiety. Carefully structured correspondence, written in a format that can be read easily and understood, can significantly enhance the management of many of our patients."

It is recommended that

structured, pre-formatted instruction sheets be provided to all patients discharged to home, that emergency departments establish uniform policies to promote best practice in communication, and that the use of discharge instructions be considered as an emergency department performance indicator.'

a competency based approach to test whether individuals have heard and understood their instructions may be better

publication, rigour - med/high

low/medium

publication, rigour - med/high

medium

medium

low/medium

low

low/medium



1			
2	"The idea that patients should receive		
3	copies of letters and summaries is not new,		
4	and research has shown that it meets with		
5	high satisfaction from the patients."	Letter - low/medium	low-med
6	"Despite our wish to see this policy		
7	implemented nationally as soon as possible,		
8	we believe that it would be counterproduc-		
9	tive to do this without first addressing the		
10	considerable concerns of both clinicians and		
11	certain patient groups."	Opinion based but published - low/med	low-med
12	"It should now be the exception to write		
13	letters that we would not wish patients to		
14	read."	low	low
15	"Patients receive a discharge information summary at the time of		
16	discharge."	medium/high	medium
17	"We agree with Chantler and Johnson		
18	that most patients (even those with cancer)		
19	wish to receive copy letters and most		
20	patients find them useful. However, it is		
21	essential to offer patients a choice in this		
22	matter because some patients do not wish to		
23	receive copy letters."	Opinion based but published - low/med	medium
24			
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31	Sending patients a copy of correspondence to their GP is one		
32	means of		
33	aiding communication and improving overall satisfaction.'	medium	medium/high
34	"letters between clinicians about an individual patient's care will be		
35	copied to		
36	the patient as of right"	medium/high	medium/high
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"These guidelines show that the issues to be tackled are mainly those already required throughout the health service and in good professional practice. They include good communication, obtaining consent, record keeping and handling (including IT support systems), and provisions to meet legal requirements to prevent discrimination on the grounds of disability or race. In particular, issues involve provisions around confidentiality and data protection."

medium/high

medium/high

"Patients found the intervention usable and reported increased confidence to ask questions. A definitive randomised controlled trial is required to establish the effect of the education package on patient outcomes." New training is needed in order to implement the practice of copying letters to patients - doctors are not yet ready

medium

low

publication - high

medium

1			
2	Consultants who participated in the exercise did not perceive any		
3	additional difficulties in		
4	implementing this practice. This small study found that 100% of		
5	patients receiving a		
6	copy letter found it useful. The fact that around one-fifth of		
7	patients did not receive		
8	such copy letters within 2 weeks as intended is worrying, and		
9	requires further		
10	investigation. Sending a copy letter involves a relatively trivial cost		
11	for a practice which		
12	patients view as a valuable resource.'	publication, rigour - med/high	medium
13	"If the government is serious about providing more		
14	information to patients, then copying letters may be a		
15	useful way of facilitating that process of culture change, as		
16	well as addressing some of the objections to the principles		
17	of more information sharing."	Publication, NHS based. Rigour - high	low-med
18	"This study demonstrated that		
19	sending copies of the consultant oncologist letter to		
20	patients, proved to be a useful and valued method of		
21	communication with minimal addition to the workload."	publication, rigour - med/high	medium
22			
23	"Our survey confirms that patients want to receive copy lettersand		
24	find it very useful. The beneficial effects outweigh thedrawbacks,		
25	which can easily be overcome. We suggest that the benefits of		
26	copying letters should be recognized and the process welcomed		
27	voluntarily rather than eventually responding to an imposed		
28	compulsory directive."	publication, rigour - med/high	medium
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There is diversity in medical and patient opinion about consultants writing directly to patients. These findings reflect fundamental differences in expectations about the nature and quality of communications between doctors and their patients.'

medium/high

medium

"The research demonstrated a high percentage of patients wanting a copy letter, which has huge resource implications in terms of secretarial time, additional stationery and postage costs. Change is difficult and an emotionally charged issue however, using examples of good practice and taking a multi-faceted approach to the change process the initiative has been successfully implemented."

medium/high

medium/high

40% of patients wanted to see a copy of their clinic letter. Patients should be given a choice.

publication, rigour - med/high

low-med

"Patients appreciate copies of the letter being sent to their GP but comprehension is less good than with a shorter letter written especially to the patient. More attention needs to be paid to making letters to GPs simpler to read without losing the structure and detail liked by GPs. A compromise might be to dictate the letter in front of the patient and to provide a specialityspecific glossary to accompany each letter."

publication, rigour - med/high

medium

1			
2	"The GPs generally found the		
3	structure and lack of specific clinical detail		
4	in the letters to patients unacceptable.		
5	What we now need to do is to combine		
6	results from all of these reports and if only		
7	one letter is going to be written, determine		
8	the optimal format in terms of structure,		
9	content and comprehensibility to serve the		
10	needs of both referring doctors and		
11	patients."	high	high
12	"The findings suggest that although personal		
13	letters do not substantially improve recall of the		
14	clinical encounter, they are feasible, highly valued		
15	by patients and acceptable to referring clinicians."	high	medium
16	Patient receives copy promoting consumer "awareness and		
17	understanding"	medium	medium
18	"preparations are		
19	undoubtedly required to meet this new		
20	standard of care: after all, it seems to be		
21	strongly supported by patients in the		
22	NHS."	Publication, East Sussex Hospital. Rigour - high	med-high
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31	"We have therefore demonstrated that the glossary may enhance		
32	a patient's understanding of the letter to the GP and the positive,		
33	spontaneous comments would certainly suggest that it enhances		
34	patient satisfaction with the whole consultation process."	Publication, NHS based. Rigour - high	low
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"It appears that in general surgery in Wrexham these concerns may be more in keeping with patients' wishes than in other specialities where it is the professionals but not the patients who are concerned about more communication. Dissemination of this policy is a problem in that many junior doctors are not even aware of it, which is a training issue."	publication, rigour - med/high	medium
"We feel that the practice of writing letters directly to patients has numerous benefits. This study demonstrated how writing such letters allows the patients to have their own source of information about their management. We hope to encourage more clinicians, not just those within palliative medicine, to adopt this practice to further the goal of improving patient care."	publication, rigour - med/high	medium
"We suggest that rather than sending patients' copies of all their correspondence" as a routine, there are more secure and cost effective ways to inform patients and allow free access to all information recorded in their medical notes.	publication, rigour - med/high	medium
The results of this study will help inform how a DDS can be automatically generated from the electronic patient health record after each clinic visit.'	low/medium	very low

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patients like receiving copies of letters	medium	medium
"The majority of the patients found the copy of GP discharge letter helpful, informative, non-alarming and reassuring and wanted a similar communication in the future. The extra workload involved was minimal and the extra expense involved only an extra page, envelope and postage."	medium	medium
"Copying patients into their GP letters is a practice supported by the majority of patients. It appears to have little impact on the running of the department and is likely to add significantly to the understanding that patients have of their consultation. Hospital departments should consider implementing this useful practice."	medium/high	medium/high
not in favour of patient copies of clinic letters "In the era of target dr Opinion based but published - low/med		medium
"Before rushing to provide the service that Richards suggests, we must think it through, plan it properly to maximise its benefits to all patients, and decide whether the potential overall benefit is worth the cost."	Opinion based but published - low/med	medium

"None of my consultant colleagues who has tried copying letters to patients has subsequently stopped because of the theoretical problems, and most, like me, have become converts to the practice. Try it and see."	Opinion based but published - low/med	low/medium
"Copying letters is well received amongst patients with CF, with numerous advantages and few disadvantages reported."	publication, rigour - med/high	low
"We conducted a pilot study to develop pictographs for discharge instructions through a participatory design process and test their efficacy in improving patient comprehension and recall. The pictograph enhancement resulted in better immediate and delayed recall rates. This suggests that we could improve patient comprehension and recall of discharge instructions by supplementing free texts with pictographs."	low/medium	low
All adult patients should have the option of receiving copy letters	medium/high	medium



1			
2	"This review suggests that researchers should move from		
3	examining the benefits and concerns around copying letters to		
4	patients, and		
5	instead focus on exploring the quality of correspondence and the		
6	optimum process of implementing the practice. As patients can		
7	"opt out" of		
8	receiving copy correspondence, audit of service delivery may be		
9	better assessed by whether patients have been offered a letter,		
10	rather than the		
11	current measure of whether one has been received.		
12	Practice implications: Copying letters to patients may have a		
13	number of important benefits and should be routine practice		
14	where patients wish to		
15	receive correspondence. Further discussion regarding the style and		
16	content of letters would be beneficial, together with attention paid		
17	to the		
18	mechanisms for recording patient preference. There is also a need		
19	for studies in non-medical professions."	high	medium/high
20	"Many patients unnecessarily avoided activities of daily living after		
21	cataract surgery.		
22	Providing an additional written sheet did not significantly improve		
23	this, whereas a photograph sheet		
24	did. Better awareness of the safety and rapid rehabilitation after		
25	modern cataract surgery is needed		
26	in hospitals and primary care centers."	medium/high	medium
27			
28	patient letters with test results following discharge was beneficial		
29	by not inconveniencing patients with a hospital visit and also ensuring		
30	test results were communicated quickly	medium/high	low/medium
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"This study demonstrated that a very high proportion of patients find copies of the outpatient letter helpful and easy to understand."

Publication, NZ - med/high

medium

"The 'one size fits all' approach of simply  
Table 4. Number of patients satisfied with present communication compared to all other types of communication by department. Copying letters should be seen as an adjunct to the communication process and not as a convenient substitute for it."

publication, rigour - med/high

med-high

"In conclusion, professional and patient scrutiny of letters, and writing letters which patients can understand, are simple but effective steps towards improving patient care."  
outpatient correspondance does not meet readability guidelines for the average population. It may not be possible to generate letters which are readable for patients and convey the necessary medical information to the GP

low/medium

medium

low/medium

low

education materials should be tailored to patient needs and record should be kept of the information given to patients

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very low

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"Effective discharge communication ensures smooth transition of patient from one health care setting to another to ensure continuity of care. This study demonstrated that there are effective strategies to improve discharge communication, Health care providers, both public and private could adopt, adopt and implement an effective approach for discharge communication in hospitals, as a means towards patient safety."

low/medium

very low

Only 60% of patients receive their discharge letters and are aware of medication information.

medium

medium

"Supported living: high score means living in supported accommodation, attending day care, having more letters copied to user."

medium

very low

"This study demonstrated that patients commonly remain confused about aftercare information following treatment in an ED. Follow-up telephone calls may be useful for identifying and addressing ongoing learning needs."

publication, rigour - med/high

low

"It is not considered to be good practice to send the discharge summary home with the patient as there is no guarantee that the information will be passed on to the general practitioner."	medium	very low
Giving patients a written discharge plan	medium	low
"Including information in a discharge summary in native languages significantly improved patients' knowledge of illness and medication. This could be a simple and cost-effective method to improve health communication and health knowledge. This should be replicated in other parts of Sri Lanka and in other countries with similar contextual factors and further evaluated."	medium	very low
"Structured teaching of communication with the patient brings family medicine back to what has actually always been its main part – communication and doctor-patient relationship. Our future aim is to develop students' letters to patients as a new tool in the family medicine course examination. Moreover, we will investigate how they can be used in everyday practice of family medicine."	medium	low

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3	"Patients had poor to moderate understanding		
4	of their test results and recommendations at discharge.		
5	The simple brief intervention of a patient directed discharge		
6	letter significantly increased immediate patient		
7	understanding in three of the four major domains. We are		
8	currently collecting follow-up data at three and six months		
9	to assess retained knowledge and clinical outcomes."	high	high
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11			
12	"The study clearly demonstrates that sending a copy letter		
13	to patients does help them to understand their condition better,		
14	contrary		
15	to the misconception amongst health professionals. Hence all		
16	hospital		
17	departments should consider implementing this useful practice."	medium/high	high
18			
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21	"Implementation of a DL improved compliance with surveillance at		
22	1 year of follow-up following discharge from a tertiary cancer		
23	centre, although optimal adherence remains low. However,		
24	adherence to CT imaging nearly doubled. Evaluation of compliance		
25	at 3 years of follow-up is ongoing."	medium	medium
26			
27			
28	"Although most of these studies have shown that receiving the GP		
29	letter is welcomed greatly by patients, results should be		
30	interpreted		
31	with caution."	publication, rigour - med/high	medium
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The majority of patients want to receive a copy of their clinical letters.

"There is a substantial risk of breaching patient confidentiality when distributing correspondence by post. A well-designed security arrangement is therefore required to ensure the safety of confidential information. Despite the security concern, mail is still the preferred mode of delivery."

publication, rigour - med/high

medium

"There is considerable evidence and experience to suggest that patients receive good quality letters very positively and with the outcome of improved satisfaction and reduction of anxiety. However, the most pressing implication of the policy relates to those sending the letters if they do not prepare properly and patients receive inappropriate or unsuitable letters, which might cause unnecessary distress or concern."

low/medium

low

"A key limitation of the present study is that only a small number of experts were used to drive the iterative refinement; this cannot be expected to capture all the problems that health consumers might encounter and does not provide a quantitative measure of performance."

low/medium

very low

"standard headings for the clinical information that should be recorded in the discharge record and included in the discharge summary communication from hospital to GP and patient." Information and advice given to patient should be provided in written discharge communication

medium/high

low

"Writing of a letter to their first patients may be a useful tool for students to personally experience the practice of medicine and establish better partnership with patients in health care."

medium

low

1 "The new template for drug information was superior to  
2 the standard discharge letter with regard to readability and  
3 usefulness  
4 for the patients, and contributes to better overview of drug  
5 changes at  
6 discharge."  
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8 low/medium  
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21 "Results of this study  
22 support the hypothesis that it makes sense to provide  
23 patients with written instructions about the appropriate use  
24 of analgesics, and that emergency departments that are  
25 not yet doing this should consider introducing this policy.  
26 It is a relatively low-cost measure that could lead to a  
27 significant improvement in quality of care."  
28  
29 medium  
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"Internationally, evidence evaluating critical care discharge information is scant. Many complex and interwoven factors can affect physical and psychosocial health outcomes after discharge from critical care, making it difficult to extrapolate the effects of information giving alone. Our understanding of service users' perspectives in this important area also is quite limited.

Findings of this review should inform the further development of information for this population and the design of future studies investigating this neglected area of critical care practice. CCN"

The law requires written and oral information to be given to patients (France). The written form is often not used.

"Advice given to patients should be in language understandable to the individual<sup>6,31,33</sup> and cover aspects of the treatment plan including self-management that encourages a shared-care model of health."

high

medium

publication, rigour - med/high

medium

medium

very low



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The comprehensive discharge bundle was not effective in reducing the rate of readmission and increasing patient satisfaction, but medical discharge summaries were sent faster to the general practitioner and a trend to a longer time to readmission was present.'	publication, rigour - med/high	very low
The current methods of delivering ED discharge instructions are not optimal for patient learning. Proper health education for patients after an ED visit has a potential to improve patient understanding of health information, decrease unnecessary return visit to the ED, and positively affect health'	medium	low
HF patients' comprehension of discharge instructions is inadequate. Patients with limited education and those that do not speak English as a primary language are more likely to have poorer discharge understanding and higher rates of 30-day readmissions.'	medium/high	low

"A simple patient-directed letter delivered during a brief discussion improves patient understanding of their hospitalisation and post-discharge recommendations, which is otherwise limited. Further evaluation of this brief and well-received intervention is indicated, with the goal of improving patient understanding, satisfaction and clinical outcomes."

high

high

"Patient discharge summaries are likely to be a useful adjunct to existing discharge information, but further work is required to determine when and how they should be provided. With appropriate training and support, it is feasible for nurses to write discharge summaries in a busy critical care environment."

high

high

"patients have a right to these hospital reports, and it is the responsibility of physicians to provide them."

medium

medium

Ask patient how they prefer to receive information. "Use discharge instructions that meet health literacy needs. Materials should be written at a 5th grade or lower reading level. Consider revising written materials to address the health literacy needs of all patients. Use readability tests, divide complex information into bullet points, and modify document font, layout, and design to revise written materials to improve readability."

medium

low

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medium

very low  
low

medium

"Findings from this pilot RCT provide important preliminary data regarding the circumstances under which an intervention based on the principles of UCCDIP could be effective, and the sample size required to demonstrate this."

"The form, designed to be completed by junior doctors as part of discharge processes, includes a text box entitled "clinical narrative" which asks the discharging clinician to tell the story of the admission, encouraging them to do so in a way that might be easily understood. Patients themselves receive a printed copy at discharge, aiming to reinforce the importance of making the narrative readable. The documentation also includes the list of medications on which a patient has been discharged as well as specific boxes to document any medications that have been discontinued and any changes made to dosages, flagging up those factors most important for a GP to have quick sight of."

high

medium

medium

medium

1			
2	Participants across literacy groups and settings identified multiple		
3	actionable areas for		
4	improvement in the ED discharge process. These included the use		
5	of simplified/lay language, increased		
6	visual learning and demonstration, and the desire for complete		
7	information. Individuals with limited		
8	literacy may particularly benefit from increased attention to		
9	consistency.'	medium	low
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14	"We believe that if we are able to provide clear and		
15	understandable instructions at discharge we might partially		
16	reduce inappropriate usage of the ED due to chronic disease,		
17	reduce costs and satisfy the patients' needs."	medium/high	low
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27	patient summaries improve patient understanding and decrease		
28	queries received by hospital following patient discharge.	medium/high	medium
29	"Involving patients at discharge		
30	has been shown to be valuable in reducing medication-related		
31	readmissions and		
32	post-discharge service utilisation; for improving patient outcomes		
33	and for supporting		
34	patients in understanding how, when, and where to seek help		
35	should they need it."	medium/high	medium
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"Patient discharge notes are written at too advanced of an educational level. To ensure patient comprehension, dismissal notes should be rewritten to a 6th-grade level."

medium/high

low

"Patients and professionals rated the PPDL positively. Key success factors for implementation were: education of interns, residents and staff, standardization of the content of the PPDL, integrating the PPDL into the electronic medical record and hospital-wide policy."

medium/high

high

"While some oncologists assess the copy letters as inappropriate for supplemental patient-oncologist-communication, breast cancer patients regard this tool as predominantly gainful. Oncologists appear to stick to their traditional perspective which perceives the copy letter mainly as a communication tool from doctor to doctor. Due to their individual experience, patients seem to develop an emotional relationship to the copy letter containing information about their disease. Especially for patients dealing actively with their treatment process, copy letters could be a reasonable instrument."

medium

medium

"Effective discharge communication, empowering patients to understand and memorize medical information, should therefore be an integral part of patient care. It is a likely contributor to better outcomes (Bishop, Barlow, Hartley, & William, 1997; Kessels, 2003), higher patient satisfaction (Kessels, 2003), better adherence to medication (Cameron, 1996; Kessels, 2003), more adequate disease management, and reduced anxiety (Galloway et al., 1997; Mossman, Boudioni, & Slevin, 1999)."	medium/high	medium/high
"When asked how often patients are discharged home with a copy of their discharge plan to give to the community nurse, 48.2% (n=242) of community respondents said that patients 'sometimes' had a copy, 26.5% (n=133) said patients 'almost always' had a copy and just 1% (n=5) responded that patients are always given a copy of their plan."	medium/high	medium

"Patients wish to receive copies of their correspondence and feel it improves their understanding of their medical condition. Although we were unable to demonstrate a measurable reduction in anxiety, increase in understanding or satisfaction, we recommend that patients be offered the choice of receiving copies of their clinic correspondence and endoscopy reports."

publication, rigour - med/high

low-med

"Of course there are situations where writing to patients may be inappropriate; breaking bad news is always better face to face. But patients do not want any of the consultation withheld from letters."

low/med

medium

"It is acknowledged that outpatient letters are increasingly written to patients and copied to GPs. In these cases the letter can act as a contract between the patient and their healthcare professional. It is expected that the standards will be applicable to these letters also."

medium

low



CMO Table

	Context	Mechanism	Outcome	Effect assessment	Does it "work" or not?
CMOC1	patient not offered letter	patient feels less involved in care	reduced patient autonomy	negative	does not work
CMOC2	patient offered opportunity to receive letter(s)/patient choice respected	patient feels more informed and involved in care	increased patient autonomy and increased involvement of patient in treatment, care and communications	positive	does work
CMOC3	large clear posters displaying patients right to choose and importance of correct contact information	patient realises they should inform hospital of address changes and preferences	lowered risk of confidentiality breach	positive	does work
CMOC4	NHS drive for patient-led care (influence or context)	clinicians increasingly offering patient choice of receiving letter/sharing information with patients	increased patient empowerment	positive	does work
CMOC5	clinician views letters to patients are beneficial e.g. increases transparency, compliance, trust, patient satisfaction, patient understanding and recall	clinician feels patient should be offered letter	potential increase in patient autonomy & satisfaction	positive	does work
CMOC6	Clinicians views letters to patients as not beneficial e.g. letter not comprehensible to patient, medico-legal issues, increased cost and staff workload, patient harm (anxiety, distress, and confusion) and issues around confidentiality	clinician feels patient should not be offered letter	no patient autonomy	N/A	unclear
CMOC7	NHS guidance that all hospital-GP correspondence should be copied to patient as a "right" where appropriate and if patients agree (unless risk of serious harm or legal issues)	clinicians increasingly offering patient choice of receiving letter	increased use of NHS resources to send letters but patient benefits through increased understanding & potential reduction in patient queries (costs balanced)	positive	does work
CMOC8	Data Protection Act 1998 (UK)	Patients may become aware of their right to know what is written & stored about them	Patients informed of their stored electronic information (increased transparency)	positive	does work
CMOC9	doctors copy patients letters	patient trusts doctor more	improved doctor-patient relationship	positive	does work
CMOC10	patients offered choice of receiving letters	increased no. of patients choosing to receive letters	Increased administrative staff workload and costs of printing & posting letters	negative	unclear

	Context	Mechanism	Outcome	Effect assessment	Does it "work" or not?
CMOC11	patients offered choice of receiving letters	increased no. of patients choosing to receive letters	reduced queries and GP visits and reduced hospital re-admissions (limited evidence)	positive	does work
CMOC12	structured discharge letters written clearly in plain English (pref. 5th grade level) with medical jargon defined, no value judgements of patients and minimal abbreviations	patients understand letter	increased patient knowledge	positive	does work
CMOC13	doctors provided training in letter writing & record keeping (contextual influence) leading to doctors write letters of higher quality and more appropriate for patients	patients understand letter	Increased patient knowledge/potential increase in doctor confidence in letter writing	positive	does work
CMOC14	patients preference for letter copies acknowledged and patients offered choice of receiving letter	patients feel able to express their preference	decreased strain on resources & increased patient autonomy & satisfaction	positive	does work
CMOC15	patients provided written & verbal information	patients reflect on written record of information for reference	increased patient knowledge of care plan, recall and acceptance of illness or condition	positive	does work
CMOC16	Human Rights Act (1998) and Race Revelations Act (2000) - clinicians equally offer all patients letter copies regardless of background	clinician feels all patients should be offered letter	increased equality and accessibility of information to patients	positive	does work
CMOC17	Use of pictures/pictographs/cartoons with written information	patients understand letter	Patient benefits from improved understanding e.g. adherence to agreed care plan	positive	does work
CMOC18	verbal information only	patient may not be able to retain information	reduced patient recall	negative	does not work
CMOC19	professionals who are not involved/limited involvement with patient writes letter	professional does not understand patient plan	letter quality reduced/increased risk of harm	negative	does not work
CMOC20	patient hospital visit of sensitive nature and/or patient lacks capacity e.g. psychotic episode, dementia	patient finds letter distressing and/or confusing	harm to patient	negative	does not work
CMOC21	Patient letter written above patient educational level or in a language the patient does not read	patient finds letter difficult to understand	patient is confused with no increased knowledge of care/possible misinterpretation of care instructions	negative	does not work
CMOC22	letter contains inaccurate information	patient identifies inaccuracies	patient notifies hospital/GP of inaccuracies and corrections are made leading to improved record keeping	positive	does work

	Context	Mechanism	Outcome	Effect assessment	Does it "work" or not?
CMOC23	patients receives discharge letter	patient does not understand entirety of letter	patient sources answers (Internet, GP, friend or relative)	positive	does work
CMOC24	Patient specific letter sent to patient	patient finds letter clear	improved patient comprehension/patient may use letter as aid to explain condition to family and friends	positive	does work
CMOC25	Patient specific letter sent to patient		increased staff workload and costs	negative	does not work
CMOC26	Patient specific letter sent to patient	Patient identifies information sent to GP and patient is different	medico-legal concerns need be raised over letter discrepancies and withheld information	negative	does not work
CMOC27	hospital sends patient discharge letter without verifying patient contact details without notifying patient	hospital worker does not identify and correct incorrect information	potential breach of patient confidentiality	negative	does not work
CMOC28	hospital routinely checks patient addresses and sends discharge letters to patients marked confidential using full name	hospital worker identifies and corrects incorrect information	patient receives letter, minimal risk of patient confidentiality breach	positive	does work
CMOC29	patient receives discharge letter	patient may feel they have questions relating to letter	patient contacts health provider with queries (evidence suggests minimal impact and queries)	positive	unclear
CMOC30	discharge letter/summary dictated in front of patient	patients query any inaccuracies	letter less likely to contain inaccuracies	positive	does work
CMOC31	Hospital gives patient discharge letter/summary to deliver to GP	patient may find they are unable to make delivery	GP does not always receive letter/summary	negative	does not work
CMOC32	Patient receives letter not written at appropriate level for them	patient feels confused and does not understand letter	GP spends time reassuring patient and explaining letter to ease patient upset	negative	does not work
CMOC33	Patients have anxiety that doctors talk about things behind their backs	patients who receive letter feel reassured that there is no hidden information	decreased patient anxiety and improved doctor-patient relationship through transparency	positive	does work
CMOC34	patients receives discharge letter	Patients feel they are important to clinician	patient is impressed with letter and feels clinician has an interest in them	positive	does work
CMOC35	choice about whether letter is sent to patient	clinician feels letters would be a disaster and inappropriate for patients	patients do not receive letters	N/A	unclear
CMOC36	patients receives discharge letter		no impact on patient	N/A	unclear
CMOC37	patients receives discharge letter with bad news	Patient finds letter initially distressing	letter causes initial distress but final outcome that patient finds letter helpful and aids recall and acceptance of condition	positive	does work

	Context	Mechanism	Outcome	Effect assessment	Does it "work" or not?
CMOC38	letter sent to patient containing information not discussed with patient or abnormal results	patient feels distressed and anxious reading letter	patient harm/unethical practice	negative	does not work
CMOC39	patient worried about diagnosis and receives letter	patient understanding helped by letter	patient feels less anxious due to being more informed	positive	does work
CMOC40	patients preference for letter copies not acknowledged		patient may receive letter who didn't want one leading to decreased patient satisfaction	negative	does not work
CMOC41	(best practice) patients offered choice of receiving letters/opt-in system	patients enabled to decide on letter preference	patients may or may not receive letter depending on their preference resulting in higher patient satisfaction	positive	does work
CMOC42	patients who feel copies of letters are not necessary for themselves		patient not given letter so patient satisfied, secondary outcomes: costs and time saved	positive	does work
CMOC43	patients receives discharge letter where appropriate	patient understands letter (high evidence)	patient finds letter informative and helpful	positive	does work
CMOC44	patients receives discharge letter where appropriate	patient feels involved in care plan	patient ensures follow up plan is followed and books any necessary tests, etc.	positive	does work
CMOC45	patients receives discharge letter where appropriate	patient feels letter is important	letter forms permanent record of hospital visit and kept for future reference	positive	does work
CMOC46	patients receives discharge letter for breaking good news	patient reminded of discussion	patient feels reassured and has "peace of mind"	positive	does work
CMOC47	patients receives discharge letter where appropriate (patient choice)	patient likes receiving letter	patient satisfaction increased	positive	does work
CMOC48	patients receives copy of discharge letter where appropriate	patient becomes aware of what GP knows	Patient reassured that GP knows about visit	positive	does work

# BMJ Open

## Improving best practice for patients receiving hospital discharge letters: a realist review

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# Improving best practice for patients receiving hospital discharge letters: a realist review

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**Study area:** General health

## TITLE

Improving best practice for patients receiving hospital discharge letters: a realist review

## ABSTRACT

**Objective:** To understand how different outcomes are achieved from adult patients receiving hospital discharge letters from inpatient and outpatient settings.

**Design:** Realist review conducted in six main steps: 1) Development of initial theory 2) Searching 3) Screening and selection 4) Data extraction and analysis 5) Data synthesis 6) Programme theory (PT) refinement.

**Eligibility criteria:** Documents reporting evidence that met criteria for relevance to the PT. Documents relating solely to mental health or children aged <18yrs were excluded.

**Analysis:** Data were extracted and analysed using a realist logic of analysis. Texts were coded for concepts relating to context, mechanism, outcome configurations (CMOCs) for the intervention of patients receiving discharge letters. All outcomes were considered. Based on evidence and our judgement, CMOCs were labelled “positive” or “negative” in order to clearly distinguish between contexts where the intervention does and does not work.

**Results:** 3113 documents were screened and 103 were included. Stakeholders contributed to refining the PT in step 6. The final PT included 48 CMOCs for how outcomes are affected by patients receiving discharge letters. “Patient choice” emerged as a key influencer to the success (or not) of the intervention. Important contexts were identified for both “positive” CMOCs (e.g. no new information in letter) and “negative” CMOCs (e.g. letter sent without verifying patient contact details). Two key findings were that patient understanding is possibly greater than clinicians perceive, and that patients tend to express strong preference for receiving letters. Clinician concerns emerged as a barrier to wider sharing of discharge letters with patients, which may need to be addressed through organisational policies and direction.

**Conclusions:** This review forms a starting point for explaining outcomes associated with whether or not patients receive discharge letters. It suggests several ways in which current processes might be modified to support improved practice and patient experience.

### Strengths and limitations of this study:

- First study to review and develop realist theories about patients receiving discharge letters.
- The engagement of patients, GPs and commissioners in refining the programme theory increased relevance and rigour of the theory.
- The programme theory is likely to be applicable and relevant to multiple healthcare settings.
- The exclusion criteria imposed restrictions on the programme theory such that evidence relating to children, solely to mental health, and those lacking capacity is not considered.
- Only sources written in the English Language were included.



INTRODUCTION

Background

Discharge communication may follow an inpatient or outpatient discharge; it typically comprises written discharge information in the form of a discharge letter or summary. It is a well-established practice that the physician who is to follow up patient care, typically the General Practitioner (GP) or equivalent <sup>(1)</sup>, should receive written *discharge communication* from the discharging physician; this practice supports continuity of care between specialist services and primary care. Patients are sometimes included in this communication, and while within the UK this is considered to be ‘good practice’ <sup>(2)</sup>, is not standardised.

The *Department of Health* in the UK describes patient copies of letters as a “right” <sup>(3)</sup> and recommend patients should be copied in where appropriate as a “rule”, unless there is risk of harm <sup>(2, 3)</sup>. This is intended to support patient understanding and wellbeing, increase patient safety and the quality of information sent, and improve doctor-patient relationships <sup>(2-4)</sup>. More recently, the *Academy of Medical Royal Colleges (AMRC)* released the “please write to me” <sup>(5)</sup> initiative. The initiative encourages doctors to write directly to patients in simple plain English to increase understanding. Despite these initiatives and guidelines, evidence within and outside the UK reports both benefits <sup>(6-10)</sup> (e.g. patient satisfaction), and drawbacks <sup>(11-15)</sup> (e.g. patient confusion) of patients receiving their letters. While patients receive copies of discharge letters inconsistently <sup>(16, 17)</sup>, the reasons for this and the subsequent consequences remain unclear.

Hence, the objectives of the current study were to conduct a realist review of patients receiving discharge communication (the intervention); to develop a programme theory (PT); and to make best practice recommendations. The research questions (RQs) were:

RQ1: What positive and negative outcomes have been reported on patients receiving written discharge communication?

RQ2: What are the important contexts which are associated with whether the mechanisms produce the different outcomes, and why?

METHODS

A realist review is a, ‘theory-driven, interpretative approach to the synthesis of evidence’ <sup>(18)</sup>. Synthesising evidence involves interrogating data sources to develop, refine and test *context*, *mechanism*, and *outcome* configurations (CMOCs). “Context” may be conceptualised as external factors that influence mechanisms <sup>(19)</sup>. “Mechanisms” are hidden, context sensitive causal forces that produce “outcomes” <sup>(19)</sup>. Following Pawson <sup>(19-22)</sup>, CMOCs should be configured and consolidated to build and develop a realist *programme theory* or theorised explanation of how an intervention *works* or not. The intervention under scrutiny ‘patients receiving discharge letters’ was defined by the review team as ‘the patient being given or sent any form of written (paper or digital) hospital discharge communication; this could be a direct copy, patient-directed letter, or a combination.’ The aim of the review is to understand and explain how the different outcomes are produced for adult patients receiving written discharge letters. Outcomes may be simplified into desired/beneficial or ‘positive’ (e.g. increased satisfaction) and undesired/detrimental or ‘negative’ (e.g. increased anxiety).

We have previously published the full protocol for this review <sup>(23)</sup> which justifies the rationale for a realist approach and considers each of the methodological steps in detail. The overall review design was informed by previous literature, driven by the research questions,



consists of six steps<sup>(19, 24, 25)</sup> and is further described in the protocol paper<sup>(23)</sup>. This design is summarised in figure 1.

### Figure 1 Review design

## Programme theory development (step 1)

The task of locating existing theories to develop an initial rough PT was achieved through a scoping search. Theories and evidence were sought which aided explanation of how and why patients receiving discharge communication results in different positive effects (e.g. drug adherence) and negative effects (e.g. preventable hospital readmissions). Sources were selected based on their “relevance”<sup>(19-21)</sup> to the PT; where *relevance* concerns ‘does the [source] address the theory under test?’<sup>(20)</sup>. Crucially, the whole source did not need to inform the PT but we considered the relevance and contribution of sections of the document<sup>(20)</sup>.

Search terms were based on the intervention (e.g. patient cop(y)ies). Published resources and healthcare websites were searched to ascertain a range of evidence (see *Supplementary file 1*). During this phase, research team judgement was needed to decide the stopping point for programme theory development as was the need to balance the degree of comprehensiveness and practicalities<sup>(23)</sup>. As the purpose was to locate existing theories and initial concepts, the search was not intended to be comprehensive and the decision was made to screen no more than 30 documents. During the scoping search, search strategies within articles and article indexing were noted in order to inform a more thorough subsequent search in step 2.

Twenty seven documents were selected from the scoping search (see *Supplementary file 2*). All documents were then interrogated and coded for any CMOCs, concepts, or theories which could inform development of a PT. These were consolidated to form Figure 2, the initial PT.

The initial PT shows two main channels for discharge communication; patient copied into (or not) the hospital to GP letter and patient received a personalised letter. Limited evidence was available for the option of ‘patient does not receive copy’ as evident in Figure 2. Patients being copied into discharge letters, whether by choice or otherwise, is associated with a large range of mechanisms and outcomes. Contexts such as ‘patient literacy level’ are likely to influence generation of mechanisms (patient does/does not find letter comprehensible) and outcomes (increase/no increase in patient knowledge), but this was unclear from the evidence reviewed in the scoping search. The scoping search revealed a range of “contextual influences” (e.g. ‘time constraints of writer’ may affect whether a patient is given a choice about receiving a letter and also the overall letter quality). It was unclear where some CMOCs began and ended (e.g. “is patient given choice about receiving copy of discharge communication” falls between contextual influences and context labels). In Figure 2, f/u stands for “follow up” and the small circled “c” icon refers to an outcome which could also thereafter take the form of a context. In summary, there were clear “gaps” and information missing from the initial PT, confirming that the scoping search in isolation was

insufficient for realist theory generation; further evidence and searching was needed to clarify details and simplify CMOCs (steps 2-6).

Figure 2 Initial Programme Theory

Search strategy (step 2)

The electronic searching was purposive and guided by the initial PT, results and indexing from step 1. A search strategy was developed which was piloted and adapted for MEDLINE until a diverse and relevant range of search results were yielded (target 500-3,000). In line with a realist approach, searching was iterative, and the strategy was refined for each database (see *Supplementary file 3*). Sources included electronic databases, healthcare sites, and grey literature.

The search strategy was not intended to be exhaustive, but provided a large enough overview to be meaningful for PT development<sup>(20)</sup>. Evidence was searched up until September 2017; publications were monitored thereafter but no new evidence affected the PT. In total, 3113 documents were selected for screening.

Selection and appraisal of documents (step 3)

Inclusion or exclusion of source evidence for the review were according to the following criteria:

Inclusion criteria:

- Full text or section of source had *relevance*<sup>(19, 20)</sup> to informing the PT
- Relate to inpatients/outpatients discharged from general hospital setting to GP (or equivalent)
- Relate to discharge where 'written discharge communication' is sent to GP or referring physician (may also be copied to patient)
- Source written or published in English

Exclusion criteria:

- Specific to discharge to units/physicians other than GPs (or equivalent), e.g. another hospital
- Specific to discharge of patients who lack cognitive capacity, e.g. dementia, or where there may be higher risk of harm, e.g. mental health discharge
- Lack of written communication having taken place, e.g. telephone only
- Specifically relate to patients <18 years
- Source not written or published in English

The exclusion criteria posed limitations on the review; children under 18 (where the parent would often be the letter recipient), patients with particularly specialised communicative needs (e.g. patients without capacity) or where the intervention may have a higher potential risk of causing harm (e.g. psychiatric discharge documents) were excluded. The communication needs of some of these patients may be more complex and variable within and between groups and therefore was not possible within review scope. The first exclusion criterion states patient discharge communication to those other than GPs or equivalent (e.g. family or community physicians) was excluded. This is because the review specifically focussed on discharge communication to GPs and patients rather than referrals or care-handovers. Furthermore, the review aimed to develop a theory for patients receiving discharge communication and inclusion of hospital-hospital discharge may have reduced clarity and produced a less focussed theory.

Once KW had screened the documents by title and abstract, second reviewer EM screened a random 10% test selection; this proportion was selected following Wong et al.<sup>(24)</sup>. Inter-reviewer agreement was set at kappa measure  $K \geq .8$ <sup>(26)</sup>. A result  $K < .8$  would require all documents to be second screened. Inter-reviewer agreement was calculated as sufficient ( $K = 0.82$ ). In the first screening phase, 611 duplicates were removed and 2,341 documents excluded; this left 161 documents.

The full texts of these 161 documents were then screened, primarily for relevance<sup>(19, 20)</sup> by KW, with EM screening a random 10% sample. Inter-reviewer agreement was again sufficient ( $K = 0.92$ ). Eighty eight documents were excluded at this stage leaving 73 for inclusion.

In addition, hand-searching of bibliographies, 'cited by' searching, and contacting experts was undertaken. This identified a further 30 relevant documents, creating a total of 103 documents. *Supplementary file 4* provides the final document list. The selection process is summarised in Figure 3.

*Figure 3 PRISMA<sup>(27)</sup> diagram (document selection process)*

#### Data extraction and analysis (step 4)

A hybrid approach to data extraction was undertaken<sup>(24, 28, 29)</sup>. This allowed extraction of both descriptive document characteristics and annotation of CMOC ideas for synthesis and integration into the PT<sup>(19, 20)</sup>. A data extraction form was designed iteratively to record pertinent document details. Final columns included: author(s), year, geographical information, healthcare system, design aim, no. of participants intervention, clinical speciality, inclusion and exclusion criteria, findings/conclusions, rigour/quality assessment<sup>(19, 20)</sup>, topic focus, form of discharge communication e.g. discharge summary, participant mix, staff mix, and relevance score<sup>(19-21)</sup>.

Documents were also annotated in NVivo for CMOCs and PT ideas. Annotations were guided by the initial PT devised in step 1.

#### Data synthesis (step 5)

During step 5, data and annotations of PT ideas and CMOs were consolidated. A realist analytic approach, following the work of Pawson<sup>(19-21, 30)</sup>, was used to interrogate the theory during data synthesis. Pawson<sup>(19-21, 30)</sup> presents several different frameworks for synthesising data evidence. We selected the framework<sup>(20)</sup> entitled "synthesis to consider the same theory in comparative settings", which involves five analytical strategy steps. This

1  
2  
3 framework was chosen as it assumes theories sometimes “work” and “do not work”  
4 according to the particular setting; Pawson et al. (20) describe this as ‘aim[ing] to make sense  
5 of the patterns of winners and losers’. Hence, this framework is suitable for the research  
6 questions which focus on cause and context of positive outcomes “winners” and negative  
7 outcomes “losers”. Thus, data synthesis was grounded on the assumption that the *outcomes*  
8 of the intervention may differ according to *context*.  
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10 The following realist analytical strategy steps (20, 28, 31) were undertaken  
11 simultaneously:  
12

- 13 1. Juxtaposition of data sources – align sources to build upon/clarify each other  
14 2. Reconciliation of data discrepancies – explore reasons for data disparities  
15 3. Adjudication of data – data quality consideration of trustworthiness/relevance  
16 4. Consolidation of data - inference of Mechanisms for outcomes  
17 5. Situation of evidence - consideration of intervention settings  
18

19 Data synthesis using the analytic strategy ‘juxtaposition of data sources’ was  
20 achieved through utilisation of NVivo ‘nodes’. Sections of text were annotated, and coded as  
21 nodes. The nodes were named according to ideas or concepts around the programme  
22 theory and contained sections of text that were used to build CMOCs. NVivo node coding  
23 resulted in 19 nodes seen in Table 1.  
24

25  
26  
27 *Table 1 Coding nodes*

Node name	No. of different sources coded	Total no. of sections of text coded
Autonomy	5	5
Clinician context (views)	23	57
Confidentiality	12	15
Context (when it does not work)	29	46
Context (when it does work)	54	107
Cost/resources	20	33
Dictate in front of patient	3	5
Doctor patient relationship	5	7
GP preference	4	8
NHS policy or contextual standards (international)	30	51
Outcomes (positive)	58	128
Outcomes (negative)	22	28
Patient as delivery method	2	2
Patient harm	24	33
Patient letters	18	34
Patient preference	37	94
Patient recall	11	12
Queries and contact	10	12

During, 'reconciliation of data discrepancies' <sup>(19, 20, 24)</sup> and 'adjudication of data' <sup>(19, 20, 24)</sup>, the data coded within NVivo was used for scanning and comparing data to identify disparities. Adjudicating and situating evidence was important to reconcile discrepancies <sup>(19, 20, 24)</sup>. We interpreted the data coded within each node and judgements were formed as to which sections of text might be functioning as contexts, mechanisms or outcomes. We then made assessments about what the CMOC might plausibly be for each CMO based on the data within each node. Where relevant, we also drew on data contained within other nodes to build CMOCs. Following this process, a CMOC table was constructed (see *Supplementary file 5*) for consolidation of data.

After table completion, following Pawson's framework <sup>(20)</sup>, it was important to make sense of the "winners" and "losers". CMOCs were primarily labelled according to how evidence was reported in the included documents, such as whether the outcomes were described as desirable or beneficial. Where evidence was limited or outcomes were not clearly described or evaluated, the research team interpreted what data were available and formed judgements about these CMOCs based on content expertise in order to generate "positive" and "negative" labels. CMOCs were not limited to one per document or one per patient experience. Thus, multiple outcomes and CMOCs could be annotated for a single experience; this exemplifies the complexity of the intervention under scrutiny.

Notably, there were a greater number of CMOCs relating to positive outcomes than when the intervention does not work.

### Programme theory refinement (step 6): Patient and public involvement

Review step 6 was to consider stakeholder perspectives to test and refine the PT in light of the synthesised data <sup>(20)</sup> and to assess whether the PT aligns with real-life experiences <sup>(18)</sup>. We invited comment from local policy makers and health service commissioners, GPs and a patient and public participation group. Groups were selected according to convenience and accessibility through University links. They were invited to suggest refinements to the PT in an entirely voluntary format, and all comments were anonymised. Formal ethical approval was not required <sup>(23)</sup> but informed involvement was sought.

## RESULTS

### Document characteristics

The 103 evidence sources were from 16 countries across various continents with most emanating from England (54%), the US (17%), and Australia (7%). Healthcare settings were split between insurance style systems (23%) and publically funded systems (77%), such as the NHS. The date range of the sources was from 1979-2017 and the total number of participants detailed across the research studies was 16,383; this included staff and patient participants but there was not enough detail across all of the studies to quantify the participant type proportions. Most had been published in the 10 years prior to the search: 1970-1979 (1%), 1980-1989 (2%), 1990-1999 (7%), 2000-2009 (40%), and 2010-2017 (50%). The source type was mixed: discussion and opinion pieces (20%), survey-based study (19%), guideline documents (12%), abstracts (7%), review (5%), interview-based study (5%), experimental study (5%), pilot study (5%), randomised controlled trial or



randomised intervention study (5%), non-randomised intervention study (3%), report document (3%), cohort study (2%), mixed methods (not covered above) (1%) and other e.g. PhD thesis (8%).

The evidence covered a wide range of specialties. Most specified inclusion of adult patients only (over 18 years) but often did not detail the exact patient ages in the write up; a few studies focussed on elderly patients. Information relating to patient demographics e.g. gender, was often not found in the sources and hence these were not summarised. Many sources instead focused on the speciality under consideration in the document and clinical presentations of interest to that speciality e.g. ECGs<sup>(32)</sup>. Participants who were staff included medical students, doctors of all training grades, nurses, GPs, non-specified hospital staff, and non-clinical staff. However, the majority of documents (66%) either did not provide staff participant details or they were irrelevant e.g. guideline document, no participants. The type of discharge communication varied: direct copies (48%), discharge instructions (13%), pictures (1%), personal discharge packs (1%), personalised letters (13%), information booklets (9%), multiple types of discharge communication (7%), and other (11%). Where the sources came from showed some variation such as Department of Health archive (3%) and conference listing (5%) but the greatest number of sources were from journals (68%).

**Quality and document rigour**

The findings were considered in light of the quality of included documents. During data extraction, documents were quality appraised for *rigour* and evaluated for *relevance*<sup>(19, 20)</sup>. The concept of *rigour* is defined as 'whether the methods used to generate the relevant data are credible and trustworthy'<sup>(18)</sup>. *Relevance* and *rigour* were scored on a scale from very low to very high and factors such as document type (e.g. opinion piece or scientific trial paper) were considered. Documents were not excluded solely based on rigour as extracts of documents with a lower quality score may still have valid contributions<sup>(20)</sup>. The quality of evidence varied, with 53% of sources graded as medium or above for relevance and 80% for rigour. Information relating to setting and context was often limited.

**Context-mechanism-outcome configurations**

The following section provides an overview of theories in the form of a narrative of how patients receiving discharge letters does or does not work, as informed by the evidence reviewed. The sub-headed themes emerged during data interrogation and consolidation although many acted as "nodes" in earlier annotation and coding (see Table 1). Sections contain references to CMOCs, quotations from data texts, and references. Quotations have been chosen which illustrate the described theories and highlight key elements of CMOCs. The full table of 48 CMOCs is found in *Supplementary file 5*.

Evidence relating to some aspects of the PT was limited, particularly in relation to negative outcomes, intervention costs, current clinician views, impact on doctor-patient relationships, personalised patient letters and patients not receiving any intervention. Evidence was also thin in relation to data disparities. Although, context and outcome information was generally well supported, mechanisms were frequently omitted. Where possible, based on the evidence and research team expertise, we inferred reasons for disparities and what the likely mechanism(s) were within any CMOC.

*Patient preference/choice*

Allowing patients to make their own choice for receiving letters may: reduce unnecessary resource strain<sup>(33)</sup>[CMOC14], only take minimal time<sup>(9)</sup>, make patients feel

more involved in their care <sup>(2, 9, 34-38)</sup> [CMOC2], increase satisfaction <sup>(10, 16, 35, 39-43)</sup> [CMOC14, CMOC41, CMOC47] and aid information acceptance <sup>(14)</sup>:

*"I wanted to know as much as possible about what was going on with my body"*  
<sup>(14)</sup>(p.73)

*"Sometimes for whatever reason you don't fully take on board what the doctor has told you. I found the letter useful to read over and digest properly what was written"*  
<sup>(2)</sup>(p.3)

Many patients report that receiving letters is useful <sup>(2, 7, 16, 33, 37, 38, 40, 44, 45)</sup>. Patients may show friends/family to help them better understand their condition/treatment <sup>(14, 16, 35, 37, 43, 46-48)</sup>. Patients may use letters as a reference/reminder for the consultation <sup>(14, 16, 35, 37, 40, 41)</sup>[CMOC45]:

*"My mind went blank after seeing the doctor and the letter reminded me of what had been said"* <sup>(37)</sup>(p.83)

Across a range of specialties and settings, the reported patient preference for receiving copies of their discharge letter is generally high (79%-97%) <sup>(7, 8, 14, 35, 36, 41, 44, 45, 49-52)</sup>. However, not all patients may find letters helpful <sup>(33, 43)</sup> or necessary <sup>(7, 33-35, 40, 43, 53)</sup>, and some may not want to be reminded of their diagnosis <sup>(35)</sup>, which could decrease satisfaction, and generate queries if these patients were sent letters without a choice [CMOC40]. Hence, several studies argue in favour of respecting patient choice and suggest the patient's right to "opt out" needs to be addressed <sup>(7, 14, 16, 40, 50, 53-55)</sup> [CMOC41]. In situations where the patient is not offered a choice, such as third party information or risk of harm <sup>(2)</sup>, the clinician should be able to justify this decision <sup>(56)</sup>. In relation to sensitive information or social diseases, patients generally do not object to this being included in the letter as long as it has 'some relevance' <sup>(56)</sup>.

### *Comprehension, queries and recall*

There was considerable evidence, particularly from patient viewpoints, to support the view that the majority of patients may understand their letters <sup>(7, 8, 14, 15, 33-37, 44-46, 56, 57)</sup> and hence find the letter beneficial and helpful <sup>(33, 44, 58)</sup> [CMOC7, CMOC39, CMOC44]. Moreover, a letter copy which is understood can reassure patients they are being listened to <sup>(43, 44, 59)</sup> [CMOC34, CMOC48]. Patient understanding of discharge instructions may increase their knowledge <sup>(43)</sup> and this might reduce unnecessary or avoidable hospital readmissions <sup>(60-64)</sup> and reduce patient anxiety <sup>(65)</sup> thereby supporting patient wellbeing <sup>(16, 51, 56)</sup> [CMOC39]:

*"I found the letter very comforting and reassuring"* <sup>(66)</sup>(p.58)

Although there may be a risk that patients receiving letters is associated with an increase in queries to seek clarification about what has been communicated <sup>(55)</sup>, several sources indicated that this occurs to a minimal extent <sup>(8, 34, 44, 52, 56)</sup> [CMOC29]. Examples of patients not understanding letters were sometimes described as a "small proportion" <sup>(33)</sup> or low percentage '7%' <sup>(35)</sup>.

If patients are provided verbal information only, they may fail to retain the information <sup>(37, 41)</sup> [CMOC18] which can decrease recall and adherence [CMOC21]:

*"By the time I have got home, I have forgotten half of what was said in clinic."*  
<sup>(44)</sup>(p.255)

Due to this, combining written and verbal information <sup>(67)</sup> may improve patient understanding <sup>(37, 68-71)</sup> [CMOC15, CMOC18], increase patient's involvement in their care <sup>(16, 37)</sup> and compliance <sup>(2, 17, 45, 59, 72, 73)</sup> [CMOC11, CMOC43], and improve recall <sup>(10, 14, 15, 34, 41, 45, 69, 74, 75)</sup> [CMOC5, CMOC15].

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Contexts which may increase likelihood of triggering patient understanding include: letter language translation <sup>(39, 76, 77)</sup>, writing the letter at a 5<sup>th</sup> or 6<sup>th</sup> grade reading age level <sup>(39, 69, 78, 79)</sup> [CMOC12], use of glossary <sup>(16, 80)</sup>, pictures, pictographs or equivalent <sup>(69, 80-82)</sup> (particularly for low literacy or illiterate patients) [CMOC17], lay explanations for ‘technical terms’ <sup>(16, 56)</sup> and writing in plain English with minimal jargon/abbreviations <sup>(2, 36, 40, 56, 69, 79, 83-85)</sup> [CMOC12].

Two sources with the same lead author suggested training medical students on writing patient letters can help produce letters that are more meaningful to patients <sup>(66, 86)</sup> [CMOC13]. However, the evidence around training in relation to the intervention was limited and needs further research.

*Personalised or patient-directed discharge letters*

Producing a letter which is comprehensible and useful to both GPs and patients has been recognised to be an issue <sup>(17, 48, 78, 87)</sup>. Patient-directed or personalised patient letters have been proposed [CMOC24, CMOC36]. Patients often rate these letters positively <sup>(6, 43, 88)</sup> and this may heighten satisfaction <sup>(43)</sup>, and improve understanding <sup>(6, 89)</sup>:

*“Simplifying written communication has also been shown to improve patient comprehension.” <sup>(6)</sup>(p.855)*

However, personalised letters have the potential to lead to resource consumption <sup>(45)</sup> [CMOC25], staff time depletion <sup>(33, 45, 89)</sup> and patient anxiety that they have been given different information to their GP <sup>(89)</sup> [CMOC26]. For these reasons, further research which weighs the benefits of personalised patient letters against the drawbacks and costs is needed.

*Patient to deliver letter*

The context of patients delivering letters seems to have few reported positive outcomes. Posting and electronic transferral of letters may be preferable as:

*“It is not considered good practice to send the discharge summary home with the patient as there is no guarantee that the information will be passed on to the general practitioner” <sup>(90)</sup>(p.7)[CMOC31].*

*Dictating letters in front of patients*

Evidence for this concept was somewhat thin. One study suggested that dictating letters in front of patients can make patients feel less in need of a copy of the letter <sup>(8)</sup>. Another paper suggested this practice may also provide a context that triggers patients to challenge inaccuracies, improving letter quality <sup>(91)</sup> [CMOC22, CMOC30]:

*“The content of letters to GPs is sometimes incorrect and this may be remedied by dictating the letter in front of the patient.” <sup>(91)</sup>*

*Confidentiality*

There are concerns and legal implications surrounding potential confidentiality breaches associated with patients receiving letters, particularly when they are sent out in the post <sup>(36, 41, 49, 51, 54, 87, 92)</sup>. One recent paper <sup>(49)</sup> (2013), which looked at confidentiality, continued to stress risks around postal communication and the importance of secure information transfer:

*“There is a substantial risk of breaching patient confidentiality when distributing correspondence by post. A well-designed security arrangement is therefore required to ensure the safety of confidential information.” <sup>(49)</sup>(p.35)*



Some documents (2, 36, 49, 54, 56) suggested ways to reduce potential risk of confidentiality breach through communication platforms and the processes involved in sending letters e.g. verifying patient contact details before sending letter (36, 59) [CMOC3, CMOC27, CMOC28].

### Patient harm

Patient anxiety or “harm” in general are often cited as reasons for clinicians not wanting to copy letters, particularly in “bad news” settings (14-17, 37, 45, 48, 57, 93) [CMOC6]. Letter inaccuracies can cause concern leaving patients feeling confused or anxious (33) [CMOC19]. Nevertheless, the letter can reassure the patients their problems are being handled (51) [CMOC46] and initial anxiety can settle or be nullified by the usefulness of the letter (7, 42-45, 56, 86, 92) [CMOC37]. Moreover, one study (40) published in the *Lancet* in 1991 suggested patient letters in “bad news” settings may be more useful than “good news”:

*“Patients who had received bad news found the letter significantly more useful in helping them to understand and remember what they had been told during the consultation than did patients receiving good news... almost half the patients receiving bad news found their letter distressing to some extent; however, with 1 exception, all patients were pleased to have received it.”* (40) (Pp.924-925)

Although the above paper was published in 1991, we found no recent evidence or system changes to dispute the notion that “bad news” letters may be of particular use to the patient. Hence, despite risk of initial “harm”, “bad news” letters should perhaps not be avoided.

Practical and feasible suggestions were found in some documents for minimising harm or anxiety: not copying letters with information not previously disclosed to the patient (2, 3, 14, 56) [CMOC38], abstain from use of value judgements e.g. pleasant lady (37) [CMOC12], potentially avoid or carefully consider copying letters where there are ‘problems of privacy at home’ and/or where the patient lacks capacity (2) [CMOC20], and checking the patient consents to a letter (56) [CMOC41].

### Clinician views

GP and hospital clinician views were described both as broadly in favour (9, 34, 48, 59, 89, 94, 95) [CMOC5, CMOC16] and not in favour of patients receiving written discharge communication across a range of specialities (10, 11, 16, 34, 36, 37, 46, 48, 51, 89, 95, 96) [CMOC6, CMOC35]. The response section (9, 11, 87) to a BMJ article (97) (2008) on patient letters demonstrates the clinician view dichotomy as practitioners argue for and against patients receiving letters:

*“My colleagues and I have had to explain to alarmed and bewildered patients who have received copies of their correspondence the meaning of phrases...”* (87)(p.1369)

*“The purposes of clinic letters are to communicate with general practitioners and keep a legible record in the notes of what is happening and what might happen. It is written in medical speak, and it is fantasy to suggest that letters written like that will ever be meaningful, without further explanation, to most patients.”* (11) (p.1369)

*“Generally, doctors who are sceptical about copying letters to patients seem not to have tried it, whereas those who send copies routinely are enthusiastic.”* (9)(p.1370)

Practitioner perceived benefits found in the sources [CMOC5] included: improved patient understanding (48, 89), increased transparency (46) [CMOC33], improved trust/doctor-patient relationship (9, 48, 89), dispelling fears of ‘secretive relationships’ between clinicians (48) and heightened sense of patient importance (48). In addition, the patients’ right to view the information was noted (89) [CMOC7, CMOC16]. A common practitioner concern of the intervention across specialties was letter comprehensibility and patient understanding (11, 16,

34, 36, 37, 46, 48, 51, 87, 89, 98, 99) [CMOC6]. Other concerns included: cost of additional materials/staff time (17, 33, 34, 49, 51, 87, 89) [CMOC23, CMOC32], patient anxiety (16, 17, 36, 37, 48, 51, 89, 96) [CMOC6, CMOC19], increased patient queries (17, 34) [CMOC29], potential confidentiality breaches (48) [CMOC6, CMOC27], and that letters would need to be oversimplified (16, 17, 48, 89, 99, 100). An attitudinal issue found in two oncology documents (46, 89) published 17 years' apart was the view that letters are tools to be used between doctors only [CMOC6]. Additionally, juniors can learn from and mimic superiors and also not send letters to patients (96).

Confusion around 'letter comprehensibility' and lack of 'patient understanding' were the commonest clinician reservations relating to the intervention (11, 16, 34, 36, 37, 46, 48, 51, 87, 89, 98, 99). However, as covered in the *comprehension* section, patients are often reported as *understanding* their letters (7, 8, 14, 15, 33-37, 44-46, 56, 57) and furthermore they tend to express strong preference for receiving such letters (7, 8, 14, 35, 36, 41, 44, 45, 49-52). Thus, it may be inferred from the evidence that patient understanding of letters is possibly higher than clinicians' perceive (34, 45, 57). The following from a recent (2016) abstract (46) concisely summarises an example of patient and clinician view disparity:

*"While some oncologists assess the copy letters as inappropriate for supplemental patient-oncologist-communication, breast cancer patients regard this tool as predominantly gainful. Oncologists appear to stick to their traditional perspective which perceives the copy letter mainly as a communication tool from doctor to doctor."* (46) (p.185)

Notably, much of the evidence reporting clinician views was published from 2002-2008 and current evidence on clinician perspectives remains limited. Moreover, although sources occasionally referred to conflicting clinician views, information on *why* attitudes differ was thin. Overall, better understanding of current clinician views on copying discharge letters to patients is required. Further research should address reasons behind different viewpoints to include patients and practitioners.

*Cost and resources*

The estimated costs associated with the intervention varied (16) but this must be considered in the context that included documents spanned a wide time range and thus factors such as inflation need to be considered. In addition, robust health economic analyses were not found in the included sources. Documents (16, 17, 33-35, 37, 41, 44, 50-52, 54-56, 87, 91, 101) referred to "cost" or financial implications [CMOC25] of sending letters in different ways such as use of consumables (17, 33, 34, 50-52, 55, 101) [CMOC10], and secretarial (16, 17, 33, 34, 37, 44, 51, 55, 56, 101) [CMOC10] and clinician time required (17, 33). A few sources (2, 17, 35, 37, 45, 56, 102), including guideline documents and research papers, suggested that benefits were such that associated costs were minimal, or even reduced by patients being more informed from receiving discharging communication [CMOC7, CMOC25, CMOC42]. However, as many of these views were based on personal comment or studies with weak methodologies, the true cost consequences remain unknown.

*Autonomy*

One source suggested that when patients are not given letters, they may feel less involved in their care, resulting in reduced patient autonomy (42) [CMOC1, CMOC6]:

*"...to refuse to provide such information if this is the patient's wish is to deny their autonomy."* (42) (p.388)

Conversely, some evidence (16, 42, 103) was found that providing patients with written discharge letters is their "right" (3, 54), may create a sense of involvement, and increase patient autonomy and satisfaction [CMOC2, CMOC4, CMOC5, CMOC8, CMOC14].

*Doctor-patient relationships*

Few documents (2, 9, 14, 16, 48, 73, 89) were found which considered the intervention in terms of the doctor-patient relationship. However, much of the limited evidence that was found indicated that patients receiving letters has the potential to improve communication, trust and the doctor-patient relationship [CMOC9] (2, 14, 16, 48, 73).

## Stakeholder perspectives

As detailed in step 6, the final review step was to refine the programme theory through stakeholder perspectives. Three groups were consulted: local commissioners, GPs and service-users/patients. Stakeholder involvement took the form of group discussions and email correspondence. As the PT was continually being developed throughout the review process, stakeholders commented on the most recently developed PT at the time of their involvement. Groups were relatively small; due to feasibility it was not possible to achieve diverse and representative group samples.

Group discussions were centred on the programme theory; members were encouraged to critique and feedback on the PT diagram. This included concepts not covered or explored in detail in the PT diagram such as: the importance of comprehensible language and terminology, difficulty and problems retaining verbal information only e.g. following use of anaesthesia, patient choice of receiving letters, illegibility of handwritten discharge communication, critical context of prior patient communication of a high quality to increase likelihood of understanding discharge letters, issues around personalised patient letters considering NHS resource availability, and concerns around writing a letter which meets the needs of both GP and patient. The commissioner and GP representatives emphasised the importance of patient safety and that this should be central to best practice recommendations. In addition, the patient group reported reading a letter about themselves written in third person was peculiar. The patient group felt patient letters were very important for patients taking responsibility for their health in line with the NHS promotion of patient-centred and patient-led care.

Several different members across the various groups commented that in practice, patients do not always receive their letters, despite this process being recognised as best practice. Recommendations were suggested to rectify this by the commissioner members to include: clinicians should assume when writing letters that they could be made available to the patient, early clinician and student training in good letter writing and record keeping, and that hospitals should support the initiative e.g. quality improvement activities and audits.

## Cycling of review steps

As a realist review is an iterative process, steps may be repeated. As described in step two, new publications were followed and consulted for evidence but provided no new or conflicting PT knowledge. Thus, it was deemed that “theoretical saturation” (19, 21) in accordance with Pawson’s realist review methodology (19-22) was attained and no further searching or step cycling was required.

## Resultant programme theory

The PT was systematically updated to produce a resultant PT following review steps 1-6 (Figure 4). This still shows two main channels for CMOCs: patient copies of letters and patient personalised letters. There remained limited CMOCs for where patients do not receive letters, due to the paucity of evidence available. Contexts for when the patient does receive their letter(s) were condensed into an aligned grouping of five key contexts for when

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the intervention may be theorised to work and four key contexts for when the intervention may be theorised not to work. The feasibility of providing a personal patient letter was updated on the PT; findings from both stakeholder feedback and data synthesis suggested personalised letters may currently be more feasible in private or insurance-based healthcare settings than in the NHS. In addition, the box of contextual influences was deleted, and the points integrated into the overall diagram. Patient outcomes throughout the PT were simplified and clarified (e.g. the outcomes such as ‘empowered patients’ and ‘reduce patient anxiety’ were simplified to the outcome ‘improved patient well-being’).

In addition, CMOCs have been “grouped” where overlap was apparent, for example, all resources are labelled simply as “resources” as data often concurrently referred to financial, administrative and clinician time resources. “Patient choice” emerges as a key influencer to the success (or not) of the intervention. Notably, there are a range of contexts, mechanisms and outcomes for when the intervention is theorised to “work” (e.g. positive outcome=improve doctor-patient relationship), and when it does “not work” (e.g. negative outcome=harm to patient). It is also evident that contexts can be used in combination to increase the likelihood of beneficial outcomes; this is indicated through wide arrows to show multiple linkages and amalgamations (e.g. a letter could contain no value judgements of patient and be written in simple plain English). Notably, the resultant PT has a higher incidence of CMOCs for when the intervention “does work”; this is considered further in the discussion.

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Figure 4 Resultant Programme Theory

For peer review only



DISCUSSION

Statement of principal findings

This review of 103 sources summarises and expands upon existing evidence by moving beyond “benefits” and “drawbacks” of patients receiving letters alone, and considering contexts of *when* as well as *how* the intervention works. Although the review focuses on the UK health system, our use of realist review has enabled identification of findings that may be transferable to other healthcare settings.

RQ1 asked about positive and negative outcomes of the intervention. Positive outcomes include: increased patient satisfaction (10, 16, 35, 39-43), improved doctor-patient relationship and trust (14, 16), heightened patient knowledge (43), improved letter and record quality (2, 56, 91), and reduced anxiety (65). Negative outcomes include patient queries (55), confusion (48, 51), and anxiety (15, 43).

RQ2 enquired after the important contexts for triggering these outcomes. Important contexts for positive outcomes include: letters written in plain English with minimal abbreviations (56), lay explanations or simplified terms in brackets for medical jargon (16, 56, 83) e.g. myocardial infarction (heart attack), written information provided alongside verbal explanation (67), no new information in letter (2, 14) or value judgements (37), letter translation (39, 76, 77) where relevant, training clinicians on letter writing practice (2, 66, 84, 86), use of pictures and glossaries where relevant (16, 69, 80-82), letters only given to patients who choose to have them (16, 33, 56), and where there is no identified risk of harm (2) or confidentiality breach (56). Important contexts for negative outcomes include: patient choice not acknowledged (56), only verbal information provided (44), letter involving terms and a style that is too advanced for patient to comprehend (78), and letter sent without verifying patient contact details (36, 54, 59).

This review has produced two key findings, which are important but not wholly surprising. The first is that the reviewed evidence indicates that patients value their discharge letter and their understanding of them is possibly greater than clinicians perceive (34, 45, 57). However, reasons behind patient and clinician perceived comprehension discrepancies were unclear. It is important to situate the first finding in terms of the study exclusion criteria and participant diversity across the evidence reviewed, for example, it is likely that patients who participate in research on this topic have a greater level of interest and literacy than those who did not participate. One or a number of demographic groups not involved in the studies, either by choice not to participate or by exclusion, may have accounted for a portion of those who clinicians perceive to have low understanding. Thus, evidence for low patient understanding was limited, and this requires further research. The second key finding is that in a number of contexts, patients expressed preference for receiving correspondence (7, 8, 14, 35, 36, 41, 44, 45, 49-52). Patients can continue to use the letter(s) to refer to beyond discharge (16, 35, 37), as a medication list reminder, and to share with friends/relatives as desired (15, 35, 37, 89). Nevertheless, patient *choice* should still be acknowledged as the review did find evidence that not *all* patients want their letters; a practical way of addressing this would be to check with the patient that they want a letter in the first instance (7, 16, 54, 56).

Systems for monitoring patient letters (e.g. the Newcastle Trust Policy for auditing and sharing letters with patients (56)) seems prudent moving forward. This is of particular relevance in the NHS given that guidelines for copying letters have been widely available since 2003 (2) and yet in practice, many patients do not receive letters (16, 49). Given the wider context of a drive for patient-led care and patient-centred communication and decision-making (17, 42, 104), this review is timely and relevant. The review findings have the potential to influence policy and improve practice. The results demonstrate how care can be improved through patient choice and good quality letter provision. However, current clinician views (34, 36, 37, 45, 46, 57, 89) and hierarchical mimicking of practices of seniors (96) pose a barrier to implementation and need addressing.

## Review limitations

For this review we followed the RAMESES quality and publication standards for realist reviews<sup>(105, 106)</sup>. Quality assessment and analysis is to a degree dependent on reviewer skills and reflexivity<sup>(107, 108)</sup>. Furthermore, analysis and inferences were 'subjective and interpretative'<sup>(109, 110)</sup>. However, because the steps we have taken for this review are transparent, other review teams can see and make judgements on result plausibility.

Due to lack of time, it was not possible to involve all stakeholder groups who may be connected with discharge communication. Nonetheless, the review had a specific focus on "receiving" discharge communication and thus stakeholders were targeted who were closely associated or involved in policy of discharge letter receipt.

The resultant PT is limited by the quality and content of evidence reviewed. Some of the evidence found in sources was markedly thin, particularly in relation to costing information, recent clinician viewpoints, personalised letter copies, and influence on the doctor-patient relationship. Furthermore, there were a greater number of CMOCs relating to positive outcomes than negative outcomes, that is, when the intervention *does* work than *doesn't*. This may be rationalised by publication bias towards positive findings. Additionally, the binary distinctions between positive and negative outcomes, that is, when the intervention does and does not work, may have imposed oversimplified CMOC labels. "Positive" and "negative" labels were based on evidence presented in the documents reviewed; at times a degree of subjectivity was involved in this process. Although these binary labels (positive/negative) may have oversimplified some CMOCs, we felt the usefulness of clear distinctions between when the intervention was interpreted to "work" (and not) outweighed the drawbacks of this method.

CMOCs for patients *not* receiving letters (nil intervention) were thin. Consequently, these evidence limitations constrained the detail available in the resultant PT in these areas. Additionally, not all mechanisms could be inferred from the data resulting in some visible mechanism "gaps" within the CMOC table (*supplementary file 5*).

The review and PT are not exhaustive but this is not the intention of a realist review<sup>(111)</sup>. Given time and resource constraints, the review was limited to adult patients who had been discharged from general hospital settings, and other patient groups were excluded. Furthermore, the PT is limited by the representativeness and diversity of the patient groups within the sources reviewed. Much of the evidence was drawn from small scale studies conducted in single settings, and even within these there is likely to have been participation bias which will have resulted in the views of ethnic minorities, patients lacking literacy and other hard to reach groups being under-represented.

## Suggestions for future research

The PT offers a useful starting point for future research and should be useful and practicable for informing policy and guidelines. Further research is needed to explore the relevance of the PT to groups, such as children and adults being discharged from mental health services, who were excluded from this review and to those, such as hard-to-reach groups, who may have been under-represented in the evidence included in the review. There is also a need for research to define the cost benefits of copying patients into discharge letters in order that the importance of this topic and the consequences of poor practice are recognised by policymakers, managers and professional bodies. Potential barriers such as clinician views and the current limited available clinician training on letter writing should be addressed; research and evaluation is needed to inform how this can be effectively achieved. Since patient and clinician views were sometimes conflicting, a study which parallels both views alongside the same patient cases to understand reasons for any

discrepancies would be useful and may provide valuable insights. This is the topic of a PhD that is currently being undertaken by the lead author, and will be reported in due course.

CONCLUSION

The resultant PT forms a basis for explaining how, when, why and for whom this intervention does and does not work. The resultant PT makes suggestions for how best practice of patients receiving discharge letters may be improved to enhance the provision of patient-centred care. Evidence for some aspects of the PT was rather limited, indicating a need for more research.

The key findings are that the value patients place on discharge letters and their understanding of the letters' content is possibly greater than clinicians' perceive, patient choice is instrumental to increasing the likelihood of desired outcomes, and that clinician views may act as a barrier to wider practice implementation. This could be addressed through clinician training and organisational initiatives which guide, mandate, and monitor the intervention. Without such organisational support, it is unlikely that current processes will be consistently improved given the barriers identified in the review.

In conclusion, this review describes how the intervention of patients receiving their discharge letters may *work* to increase the likelihood of positive effects and reduce potential negative effects.

**Author contributions:** KW was the lead reviewer. EM completed the second reviewer tasks. All authors contributed toward the programme theory through discussions. KW is responsible for the design and drafting of the initial manuscript. GW, ES, SS and JD critically reviewed and edited the final manuscript. All authors read and approved the final manuscript.

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**Data sharing statement:** This review presents previously published and publically available data. Please refer to the reference list (below and in supplementary file 4) and their authors for these research data.

**Competing interests:** None known

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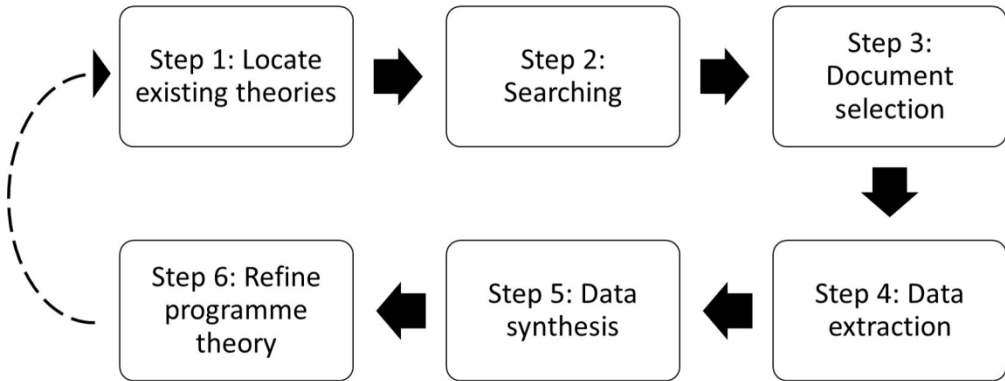


Figure 1

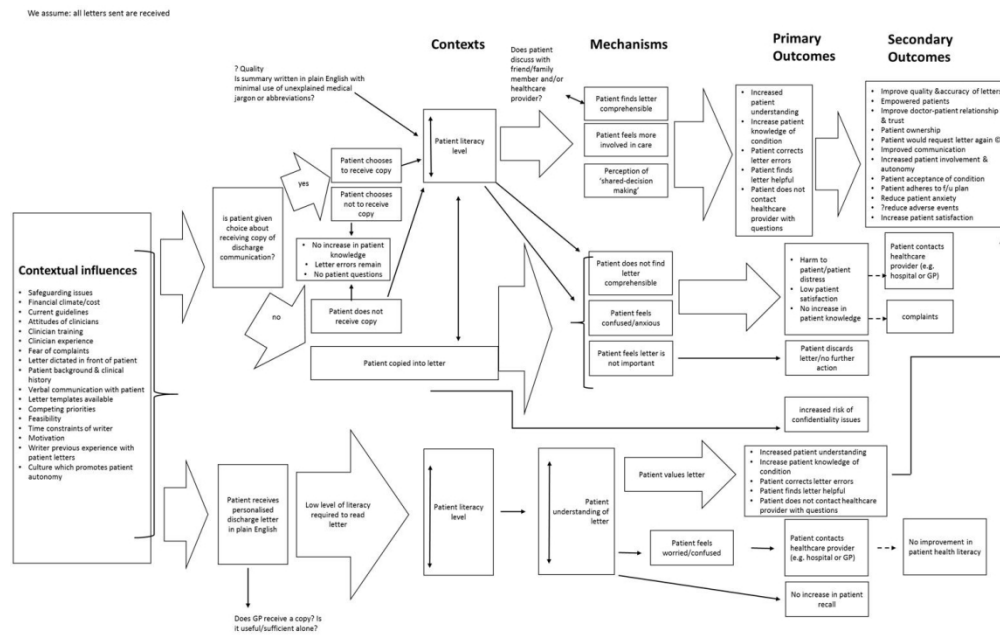


Figure 2

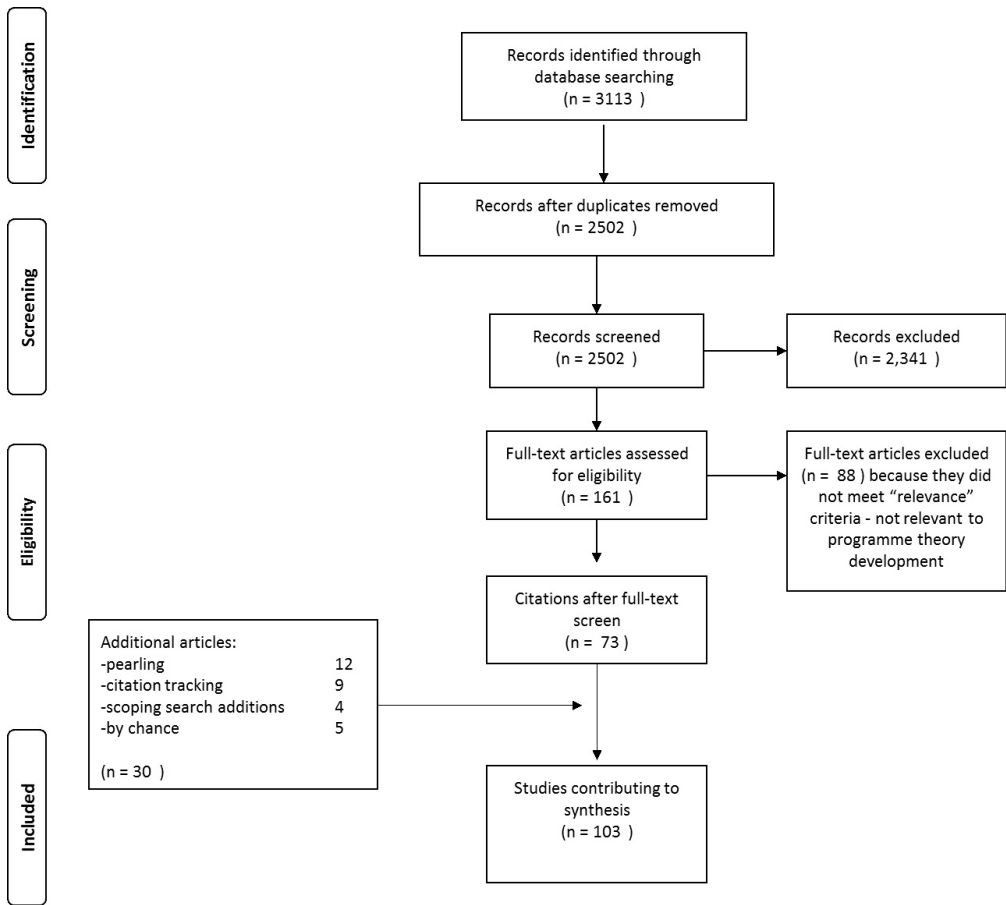


Figure 3



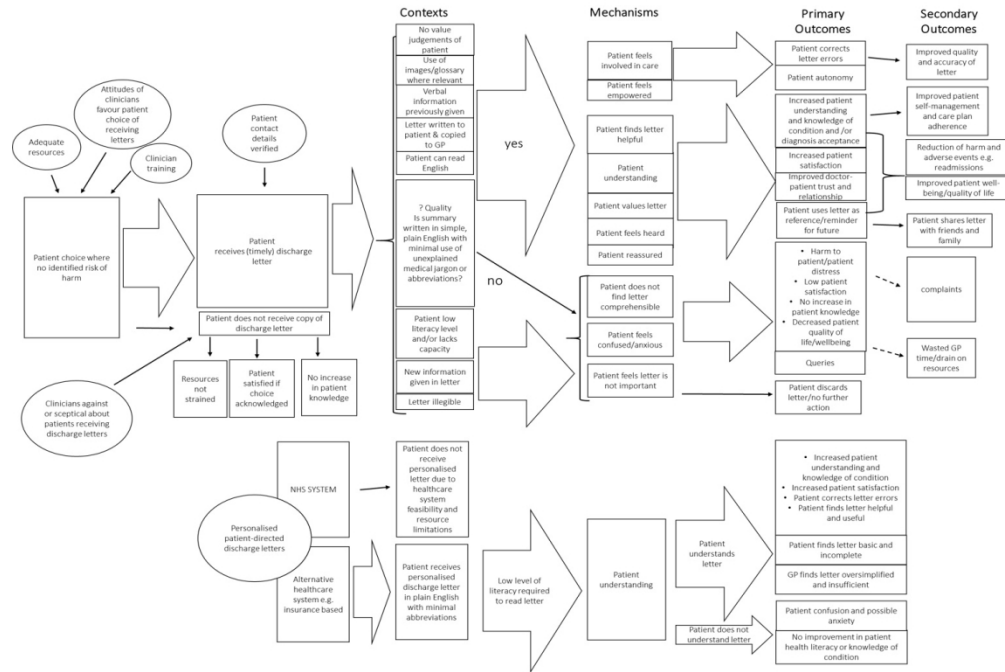


Figure 4

Search Terms and Sources Searched

Source	Search terms
MEDLINE	<div>1. written[All Fields] AND ("patient discharge"[MeSH Terms]</div> <div>2. ("patient"[All Fields] AND "discharge"[All Fields])</div> <div>3. ("patient discharge"[All Fields] OR "discharge"[All Fields]) AND ("communication"[MeSH Terms])</div> <div>4. ("communication"[All Fields] AND ("patient discharge"[MeSH Major Topic]) AND ("patients"[MeSH Terms])</div> <div>5. ("patients"[All Fields] OR "patient"[All Fields]) OR ("letter"[Publication Type] OR "correspondence as topic"[MeSH Terms])</div> <div>6. ("correspondence"[All Fields] AND ("patients"[MeSH Terms])</div> <div>7. ("patients"[All Fields] OR "patient"[All Fields]) AND "patient discharge"[MeSH Major Topic] AND ("communication"[MeSH Terms])</div> <div>8. ("communication"[All Fields] OR (receiving[All Fields]) AND ("letter"[Publication Type] OR ("correspondence as topic"[MeSH Terms])</div> <div>9. ("letters"[All Fields] AND ("patients"[MeSH Terms] OR "patients"[All Fields] OR "patient"[All Fields]) AND ("patient discharge"[MeSH Major Topic])</div> <div>10. ("patients"[MeSH Terms] OR "patients"[All Fields] OR "patient"[All Fields]) AND ((copies[All Fields]) AND "patient discharge"[MeSH Major Topic])</div> <div>11. (((("patient discharge"[MeSH Major Topic] OR "patient discharge"[MeSH Terms]) AND letter[Other Term]) AND ("patients"[MeSH Terms] OR "patients"[All Fields] OR "patient"[All Fields])</div> <div>12. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11</div>
Web of Science	<div>1. Written patient discharge communication</div> <div>2. Patients receiving letters</div> <div>3. Patients receiving discharge letters</div> <div>4. Patient copies of written information</div> <div>5. 1 OR 2 OR 3 OR 4</div>
Department of Health	<div>1. Discharge communication</div> <div>2. Patient letters</div>

	3. Patients receiving letters
Royal	1. Discharge communication
College of	2. Patient letters
Physicians	3. Patients receiving letters
	4. Patient copy
	5. Patient copies
	6. Patients receiving written information

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Studies Found from Scoping Search

	Author	Year	Title	Document type
1	D N Wood, A Deshpande, M Wijewardena, and S S Gujral	2006	A Study of How Urology Out-Patient likes to Receive Clinical Information	Published article
2	A Liapi, P J Robb, and A Akthar	2006	Copying clinic letters to patients: a study of patient attitudes	Published article
3	S Baxter, K Farrell, C Brown, J Clarke, and H Davies	2008	Where have all the copy letters gone? A review of current practice in professional–patient correspondence	Published article
4	D D Pothier, P Nakivell, and C E J Hall	2007	What do Patients Think about being copied into their GP Letters?	Published article
5	S L Todhunter, P J Clamp, S Gillett, and D D Pothier	2010	Readability of out-patient letters copied to patients: can patients understand what is written about them?	Published article
6	Royal College of Physicians	2013	Standards for the clinical structure and content of patient records	Guidelines
7	Royal College of Physicians	2017	Writing letters to patients – what’s the big deal?	Short website entry
8	A J Choudhry, Y M K Baghdadi, A E Wagie, E B Habermann, S F Heller, D H Jenkins, D C Cullinane, M D Zielinski	2016	Readability of discharge summaries with what level of information are we dismissing our patients?	Published article
9	M O’Reilly, M R Cahill, and I J Perry	2006	Writing to patients: a randomised controlled trial	Published article
10	Y Krishna, and B E Damato	2005	Patient attitudes to receiving copies of outpatient clinic letters from the ocular oncologist to the referring ophthalmologist	Published article

- and GP
- 11 B R O'Driscoll, J Koch, and C 2003 Most patients want copies of letters from BMJ letter  
Paschalides outpatient clinics and find them useful
  - 12 H Hadjistavropoulos, H Biem, D Sharpe, M Bourgault- 2008 Patient perceptions of hospital discharge: reliability and validity Published article  
Fagnou, and J Janzen of a Patient Continuity of Care Questionnaire
  - 13 M Thornber 2009 Copying referral BJGP letter  
letters
  - 14 Department of Health 2000 The NHS Plan Report
  - 15 P White, A Singleton, and R Jones 2004 Copying referral letters to patients: the views of patients, Published article  
patient representatives and doctors
  - 16 NHS England 2016 Standards for the Guidance  
communication of patient  
diagnostic test results on  
discharge from hospital
  - 17 R Lin, R Gallagher, M Spinaze, H Najoumian, C Dennis, R 2014 Effect of a patient-directed discharge letter on patient Published article  
Clifton-Bligh, and G Tofler understanding of their hospitalisation
  - 18 S Vaidyanathan, C A Glass, B M Soni, J Bingley, G Singh, 2001 Doctor ± Patient Communication: Do people with spinal cord Published article  
J W H Watt, and P Sett injury wish  
to receive written information about their medical condition  
from the  
physicians after an outpatient visit or after a readmission in the  
spinal

unit?

19	J Flacker, W Park, and A Sims,	2007	Hospital Discharge Information and Older Patients: Do They Get What They Need?	Published article
20	J S Albrecht, A L Gruber-Baldini, J M Hirshon, C H Brown, R Goldberg, J H Rosenberg, A C Comer, and J P Furuno,	2014	Hospital Discharge Instructions: Comprehension and Compliance Among Older Adults	Published article
21	B M Buurman, K J Verhaegh, M Smeulders, H Vermeulen, S E Geerlings, S Smorenburg, and S E de Rooij	2016	Improving handoff communication from hospital to home: the development, implementation and evaluation of a personalized patient discharge letter	Published article
22	Department of Health	2003	Copying letters to Patients: Good practice guidelines	Guidelines
23	J Main	2008	Copying in or copping out?	BMJ letter
24	C D Shee	2008	Try it and see	BMJ letter
25	B McKinstry	2008	Copying patients in is not as simple as it seems	BMJ letter
26	D Jelley, and T van Zwanenberg	2000	Copying general practitioner referral letters to patients: a study of patients' views	Published article
27	K Treacy, J S Elborn, J Rendall, and J M Bradley	2008	Copying letters to patients with cystic fibrosis (CF): Letter content and patient perceptions of benefit	Published article

**Sources searched (step 2)**

	Sources	Results
1	MEDLINE	1596
2	EMBASE	558
3	CINAHL	100
4	DARE	2
5	ASSIA	47
6	Web of Science	205
7	ZETOC	29
8	AMED	26
9	NHS Digital (HSCIC)	0
10	NHS Evidence (public domain only)	244
11	DH	2
12	NICE Guidelines	0
13	Cochrane database of systematic reviews	21
14	EPPI-CENTRE	20
15	SCOPUS	38
16	Google Scholar	6
17	OpenGrey	3
18	GreyNet sources	0
19	ProQuest dissertations and theses	210
20	General Medical Council	0
21	Royal College of Physicians	5
22	Local Medical Committees (West Midlands)	0
23	Clinical Commissioning Groups (West Midlands)	0
24	SIGN	0
25	NHS Improvement	1
	<b>TOTAL RESULTS</b>	<b>3113</b>

Full List of Search Strategies for each source

Search strategy for electronic databases (MEDLINE and AMED)

- 1. letter\$
- 2. summaries\$
- 3. Correspondence
- 4. patient copies\$
- 5. patient letter
- 6. communication (MESH term if MEDLINE)
- 7. patient\$ receiving
- 8. written information
- 9. discharge document\$
- 10. patient-directed letter
- 11. personalised letter
- 12. personal letter
- 13. personalized letter
- 14. copy letter
- 15. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14
- 16. Hospital discharge (MESH if MEDLINE) AND 15
- 17. Patient discharge (MESH if MEDLINE) AND 15
- 18. 16 OR 17
- 19. 18 and patients (MESH HEADING if MEDLINE)
- 20. Patients adj3 receiving adj3 letter\*
- 21. Patients adj3 receiving adj3 discharge adj letter\*
- 22. patient adj3 cop\$ of written adj information
- 23. written adj3 patient adj discharge adj communication
- 24. secondary to primary adj care adj3 communication
- 25. hospital adj3 GP adj3 communication
- 26. writing adj3 to adj3 patients
- 27. 20 OR 21 OR 22 OR 23 OR 24 OR 25 OR 26
- 28. 27 OR 19
- 29. patient discharge letter
- 30. discharge communication
- 31. discharge letter
- 32. discharge summary
- 33. discharge summaries
- 34. 29 OR 30 OR 31 OR 32 OR 33 OR 34 OR 10 OR 11 OR 12 OR 13 OR 14
- 35. 34 OR 28
- 36. discharge correspondence
- 37. copy correspondence
- 38. doctor letter
- 39. copy letter
- 40. 36 OR 37 OR 38 OR 39
- 41. 40 OR 35

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Search strategy for EMBASE and DARE (adapted due to high search results in EMBASE and simpler searching filtration system in DARE):

1. patient directed letter
2. personalised letter
3. personal letter
4. personalized letter
5. copy letter
6. Patients adj3 receiving adj3 letter\*
7. Patients adj3 receiving adj3 discharge adj letter\*
8. patient adj3 cop\$ of written adj information
9. written adj3 patient adj discharge adj communication
10. secondary to primary adj care adj3 communication
11. hospital adj3 GP adj3 communication
12. writing adj3 to adj3 patients
13. patient discharge letter
14. discharge communication
15. discharge letter
16. patient discharge letter
17. discharge correspondence
18. copy correspondence
19. doctor letter
20. copy letter
21. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20
22. 21 OR discharge summary (DARE ONLY)

Search strategy for CINAHL (adapted due to high search results):

1. patient discharge letter AND patient discharge from hospital (CINAHL MH "Hand Off (Patient Safety)")
2. personalised letter AND patient discharge from hospital (CINAHL MH "Hand Off (Patient Safety)")
3. copy letter AND patient discharge from hospital (CINAHL MH patient discharge summaries)
4. discharge communication AND patient discharge from hospital (CINAHL MH patient discharge summaries)
5. discharge correspondence AND patient discharge from hospital (CINAHL MH patient discharge summaries)
6. copy correspondence AND patient discharge from hospital (CINAHL MH patient discharge summaries)
7. doctor letter AND patient discharge from hospital (CINAHL MH patient discharge summaries)
8. copy letter
9. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8

ASSIA and Web of Science and ZETOC and NHS evidence search strategy and NHS improvement and Cochrane database

1. (patient discharge letter) AND (discharge from hospital) AND "patient discharge" (\*for NHS EVIDENCE & improvement & SCOPUS- AND written)

2. (personalised letter) AND (discharge from hospital) AND "patient discharge" (\*for NHS EVIDENCE & improvement & SCOPUS - AND written)
3. (copy letter) AND (discharge from hospital) AND "patient discharge" (\*for NHS EVIDENCE & improvement - AND written)
4. (doctor letter) AND (discharge from hospital) AND "patient discharge" (\*for NHS EVIDENCE & improvement - AND written)
5. 1 OR 2 OR 3 OR 4
6. (FOR NHS EVIDENCE & improvement ONLY) copying hospital discharge letters to patients

ProQuest very high results (adapted terms)

1. personalised patient discharge letter AND "patient discharge" AND written AND patient information AND copy AND personalised AND copy letter AND doctor letter AND discharge communication copy OR letter "discharge from hospital"Google Scholar search: (many thousands of results when using above terms)

1. (personalised patient discharge letter) AND (discharge from hospital) AND "patient discharge" AND written AND patient information AND copy AND personalised AND copy letter AND doctor letter AND discharge communication AND written AND patient copy

Broad searches for X, Y, Z (websites and sources without indexing or electronic searching) e.g. Department of health

Used for: HSCIC and EPPI-CENTRE And Open Grey

The below search terms were entered into GMC yielding several hundred results. As results from GMC must be exported singularly these were screened on the webpage. The searches found no relevant results.

1. Discharge communication
2. Discharge
3. Patient discharge
4. Discharge letter
5. Discharge letters
6. Discharge summary
7. Discharge summaries
8. Patient letters
9. Patients receiving letters
10. Patients receiving letter
11. Patient copy
12. Copying patients
13. Patient copies
14. Patients receiving written information
15. Hospital discharge
16. Discharge correspondence
17. Discharge document
18. Discharge information
19. Patient discharge information

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20. Copy letter
21. Doctor letter
22. Personal letter
23. Copy correspondence
24. Patient involvement
25. Patient access to records
26. Health informatics

\*searches adapted in NHS digital due to huge amount of irrelevant results around admission statistics. No relevant results could be found.

For peer review only

List of Included Texts (full)

1. Ackermann S, Bingisser MB, Heierle A, Langewitz W, Hertwig R, Bingisser R. Discharge communication in the emergency department: physicians underestimate the time needed. *Swiss Med Wkly*. 2012;142:w13588.
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7. Baumann W, Schussler L, Bertram M, Benser J, Kumpers S, Hermes-Moll K. Oncologists' letters for breast cancer patients. *Oncology Research and Treatment*. 2016;39:184-5.
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9. Bench S, Day T, Griffiths P. Effectiveness of critical care discharge information in supporting early recovery from critical illness. *Crit Care Nurse*. 2013;33(3):41-52.
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14. Brodie T, Lewis D. A survey of patient views on receiving vascular outpatient letters. *European Journal of Vascular and Endovascular Surgery*. 2010;39(1):5-10.
15. Brown CE, Roberts NJ, Partridge MR. Does the use of a glossary aid patient understanding of the letters sent to their general practitioner? *Clinical medicine (London, England)*. 2007;7(5):457-60.
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17. Cannaby A-M. Improving the process of hospital discharge for medical patients [Ph.D.]. Ann Arbor: University of Leicester (United Kingdom); 2003.
18. Carol Lim KK, Chan SK, Chew EL, Anita Lim AF, Sararaks S, Ainul H, et al. Handoff communication - Let's do it right. *Medical Journal of Malaysia*. 2010;65:8.
19. Chantler C, Johnson J. Patients should receive copies of letters and summaries. *BMJ : British Medical Journal*. 2002;325(7360):388-.

20. Charlett SD, Bajaj Y, Kelly G. Writing to patients with the results of routine tests: A measure to improve access to outpatient clinics. *Otorhinolaryngologist*. 2009;2(3):73-4.
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22. Damian D, Tattersall MH. Letters to patients: improving communication in cancer care. *Lancet*. 1991;338(8772):923-5.
23. Davies JM, Batuyong E, Lupichuk SM, Hilsden R, Eliasziw M, Easaw JC. Cohort study evaluating the impact of a discharge letter (DL) compared with usual care on adherence to surveillance following treatment for stage II/III colorectal cancer (CRC). *Journal of Clinical Oncology Conference*. 2012;30(4 SUPPL. 1).
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26. Discharge planning : best practice in transitions of care. The Queen's Nursing Institute. 2016 [https://www.qni.org.uk/wpcontent/uploads/2016/09/discharge\\_planning\\_report\\_2015.pdf](https://www.qni.org.uk/wpcontent/uploads/2016/09/discharge_planning_report_2015.pdf).
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28. Exploring patient participation in reducing health-care-related safety risks. 2013 [http://www.euro.who.int/\\_\\_data/assets/pdf\\_file/0010/185779/e96814.pdf](http://www.euro.who.int/__data/assets/pdf_file/0010/185779/e96814.pdf).
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CMO Table

	Context	Mechanism	Outcome	Effect assessment	Does it "work" or not?
CMOC1	patient not offered letter	patient feels less involved in care	reduced patient autonomy	negative	does not work
CMOC2	patient offered opportunity to receive letter(s)/patient choice respected	patient feels more informed and involved in care	increased patient autonomy and increased involvement of patient in treatment, care and communications	positive	does work
CMOC3	large clear posters displaying patients right to choose and importance of correct contact information	patient realises they should inform hospital of address changes and preferences	lowered risk of confidentiality breach	positive	does work
CMOC4	NHS drive for patient-led care (influence or context)	clinicians increasingly offering patient choice of receiving letter/sharing information with patients	increased patient empowerment	positive	does work
CMOC5	clinician views letters to patients are beneficial e.g. increases transparency, compliance, trust, patient satisfaction, patient understanding and recall	clinician feels patient should be offered letter	potential increase in patient autonomy & satisfaction	positive	does work
CMOC6	Clinicians views letters to patients as not beneficial e.g. letter not comprehensible to patient, medico-legal issues, increased cost and staff workload, patient harm (anxiety, distress, and confusion) and issues around confidentiality	clinician feels patient should not be offered letter	no patient autonomy	N/A	unclear
CMOC7	NHS guidance that all hospital-GP correspondence should be copied to patient as a "right" where appropriate and if patients agree (unless risk of serious harm or legal issues)	clinicians increasingly offering patient choice of receiving letter	increased use of NHS resources to send letters but patient benefits through increased understanding & potential reduction in patient queries (costs balanced)	positive	does work
CMOC8	Data Protection Act 1998 (UK)	Patients may become aware of their right to know what is written & stored about them	Patients informed of their stored electronic information (increased transparency)	positive	does work
CMOC9	doctors copy patients letters	patient trusts doctor more	improved doctor-patient relationship	positive	does work
CMOC10	patients offered choice of receiving letters	increased no. of patients choosing to receive letters	Increased administrative staff workload and costs of printing & posting letters	negative	unclear

	Context	Mechanism	Outcome	Effect assessment	Does it "work" or not?
CMOC11	patients offered choice of receiving letters	increased no. of patients choosing to receive letters	reduced queries and GP visits and reduced hospital re-admissions (limited evidence)	positive	does work
CMOC12	structured discharge letters written clearly in plain English (pref. 5th grade level) with medical jargon defined, no value judgements of patients and minimal abbreviations	patients understand letter	increased patient knowledge	positive	does work
CMOC13	doctors provided training in letter writing & record keeping (contextual influence) leading to doctors write letters of higher quality and more appropriate for patients	patients understand letter	Increased patient knowledge/potential increase in doctor confidence in letter writing	positive	does work
CMOC14	patients preference for letter copies acknowledged and patients offered choice of receiving letter	patients feel able to express their preference	decreased strain on resources & increased patient autonomy & satisfaction	positive	does work
CMOC15	patients provided written & verbal information	patients reflect on written record of information for reference	increased patient knowledge of care plan, recall and acceptance of illness or condition	positive	does work
CMOC16	Human Rights Act (1998) and Race Revelations Act (2000) - clinicians equally offer all patients letter copies regardless of background	clinician feels all patients should be offered letter	increased equality and accessibility of information to patients	positive	does work
CMOC17	Use of pictures/pictographs/cartoons with written information	patients understand letter	Patient benefits from improved understanding e.g. adherence to agreed care plan	positive	does work
CMOC18	verbal information only	patient may not be able to retain information	reduced patient recall	negative	does not work
CMOC19	professionals who are not involved/limited involvement with patient writes letter	professional does not understand patient plan	letter quality reduced/increased risk of harm	negative	does not work
CMOC20	patient hospital visit of sensitive nature and/or patient lacks capacity e.g. psychotic episode, dementia	patient finds letter distressing and/or confusing	harm to patient	negative	does not work
CMOC21	Patient letter written above patient educational level or in a language the patient does not read	patient finds letter difficult to understand	patient is confused with no increased knowledge of care/possible misinterpretation of care instructions	negative	does not work
CMOC22	letter contains inaccurate information	patient identifies inaccuracies	patient notifies hospital/GP of inaccuracies and corrections are made leading to improved record keeping	positive	does work

	Context	Mechanism	Outcome	Effect assessment	Does it "work" or not?
CMOC23	patients receives discharge letter	patient does not understand entirety of letter	patient sources answers (Internet, GP, friend or relative)	positive	does work
CMOC24	Patient specific letter sent to patient	patient finds letter clear	improved patient comprehension/patient may use letter as aid to explain condition to family and friends	positive	does work
CMOC25	Patient specific letter sent to patient		increased staff workload and costs	negative	does not work
CMOC26	Patient specific letter sent to patient	Patient identifies information sent to GP and patient is different	medico-legal concerns need be raised over letter discrepancies and withheld information	negative	does not work
CMOC27	hospital sends patient discharge letter without verifying patient contact details without notifying patient	hospital worker does not identify and correct incorrect information	potential breach of patient confidentiality	negative	does not work
CMOC28	hospital routinely checks patient addresses and sends discharge letters to patients marked confidential using full name	hospital worker identifies and corrects incorrect information	patient receives letter, minimal risk of patient confidentiality breach	positive	does work
CMOC29	patient receives discharge letter	patient may feel they have questions relating to letter	patient contacts health provider with queries (evidence suggests minimal impact and queries)	positive	unclear
CMOC30	discharge letter/summary dictated in front of patient	patients query any inaccuracies	letter less likely to contain inaccuracies	positive	does work
CMOC31	Hospital gives patient discharge letter/summary to deliver to GP	patient may find they are unable to make delivery	GP does not always receive letter/summary	negative	does not work
CMOC32	Patient receives letter not written at appropriate level for them	patient feels confused and does not understand letter	GP spends time reassuring patient and explaining letter to ease patient upset	negative	does not work
CMOC33	Patients have anxiety that doctors talk about things behind their backs	patients who receive letter feel reassured that there is no hidden information	decreased patient anxiety and improved doctor-patient relationship through transparency	positive	does work
CMOC34	patients receives discharge letter	Patients feel they are important to clinician	patient is impressed with letter and feels clinician has an interest in them	positive	does work
CMOC35	choice about whether letter is sent to patient	clinician feels letters would be a disaster and inappropriate for patients	patients do not receive letters	N/A	unclear
CMOC36	patients receives discharge letter		no impact on patient	N/A	unclear
CMOC37	patients receives discharge letter with bad news	Patient finds letter initially distressing	letter causes initial distress but final outcome that patient finds letter helpful and aids recall and acceptance of condition	positive	does work

	Context	Mechanism	Outcome	Effect assessment	Does it "work" or not?
CMOC38	letter sent to patient containing information not discussed with patient or abnormal results	patient feels distressed and anxious reading letter	patient harm/unethical practice	negative	does not work
CMOC39	patient worried about diagnosis and receives letter	patient understanding helped by letter	patient feels less anxious due to being more informed	positive	does work
CMOC40	patients preference for letter copies not acknowledged		patient may receive letter who didn't want one leading to decreased patient satisfaction	negative	does not work
CMOC41	(best practice) patients offered choice of receiving letters/opt-in system	patients enabled to decide on letter preference	patients may or may not receive letter depending on their preference resulting in higher patient satisfaction	positive	does work
CMOC42	patients who feel copies of letters are not necessary for themselves		patient not given letter so patient satisfied, secondary outcomes: costs and time saved	positive	does work
CMOC43	patients receives discharge letter where appropriate	patient understands letter (high evidence)	patient finds letter informative and helpful	positive	does work
CMOC44	patients receives discharge letter where appropriate	patient feels involved in care plan	patient ensures follow up plan is followed and books any necessary tests, etc.	positive	does work
CMOC45	patients receives discharge letter where appropriate	patient feels letter is important	letter forms permanent record of hospital visit and kept for future reference	positive	does work
CMOC46	patients receives discharge letter for breaking good news	patient reminded of discussion	patient feels reassured and has "peace of mind"	positive	does work
CMOC47	patients receives discharge letter where appropriate (patient choice)	patient likes receiving letter	patient satisfaction increased	positive	does work
CMOC48	patients receives copy of discharge letter where appropriate	patient becomes aware of what GP knows	Patient reassured that GP knows about visit	positive	does work