Supplementary file 1: Categorisation of Causes of Death

#	Detailed Category (26)	ICD-10	Grouped
			Category (8)
1	Infectious diseases	A00-B99	Other
2	Lung cancer	C33-C34	Cancers
3	Prostate cancer	C61	Cancers
4	Breast cancer	C50	Cancers
5	Bowel cancer	C18-C21	Cancers
6	Other cancers	All other C codes	Cancers
7	Diabetes	E10-E14	Other
8	Dementia and Alzheimer's	F01, F03, G30	Dementia and Alzheimer's
9	Mental and behavioural disorders excluding dementia *	All other F codes	Other
1 0	Nervous system diseases excluding Alzheimer's	All other G codes	Other
1 1	Ischaemic heart disease	120-125	Circulatory
1 2	Cerebrovascular	160-169	Circulatory
1 3	Other circulatory	All other I codes	Circulatory
1 4	Influenza and pneumonia	J09-J18	Respiratory
1 5	Chronic lower respiratory diseases	J40-J47	Respiratory
1 6	Other respiratory	All other J codes	Respiratory
1 7	Digestive excluding cirrhosis	K00-K69 K77-K99	Other
1 8	Cirrhosis and other diseases of the liver	K70-K76	Other
1 9	Genitourinary	N00-N99	Other
2	Perinatal conditions	P00-P96	Other
2	III-defined	R00-R99	Other
2	Suicide and injury/poisoning of undetermined intent *	X60-X84, Y10-Y34, Y87.0, Y87.2	External
2	Accidents *	V01-X59, Y85-Y86	External
2 4	Other external *	All other X&Y codes	External

2	Residual	All D	Residual
5		Residual E codes	
		All H	
		AllL	
		AllO	
		All M	
		AllQ	
2	Drug-related	F11-F15, F19, Plus	Drug-related
6		X40-X44, X60-X64,	
		X85, Y10-Y14 where a	
		controlled drug was	
		present in the body.	

^{*} excluding deaths which are also classified as drug-related.

As the drug-related codes overlap with mental and behavioural causes (exc. dementia) and external causes (suicides, accidents and other external), where a death would appear in both categories, we included it in the drug-related category only, and therefore the other 4 categories exclude drug-related deaths. This was done for two reasons: firstly, the interest in the impact of recent drug-related death trends; and secondly, because of ICD coding changes in 2011¹ there is a discontinuity in the figures for external causes and mental and behavioural causes. This change caused deaths which would previously have been coded as mental and behavioural causes to be coded as external causes. As this change occurred at a key point in the time period we are analysing, it would give misleading results on the relative impact of these causes on life expectancy growth. The coding change did not affect the figures for drug-related deaths, so by selecting these as a separate category, the discontinuity is avoided.

¹ https://www.nrscotland.gov.uk/files/statistics/vital-events/changes-to-coding-of-causes-of-death-between-2010-2011.pdf.