

## SECTION D CAUSE OF DEATH

Please see Summary of Data section of the report for details on the inclusion/exclusion of patients.

D1 Death in the prevalent RRT population 2008-2014				
Year of death	Number of deaths	% of deaths in RRT population*	Age at death	
			Median	IQR
2008	457	9.8	71	(63,78)
2009	425	9.0	72	(61,79)
2010	428	8.9	71	(60,78)
2011	434	8.9	72	(63,77)
2012	388	7.8	71	(61,78)
2013	442	8.7	71	(62,79)
2014	424	8.2	72	(63,79)

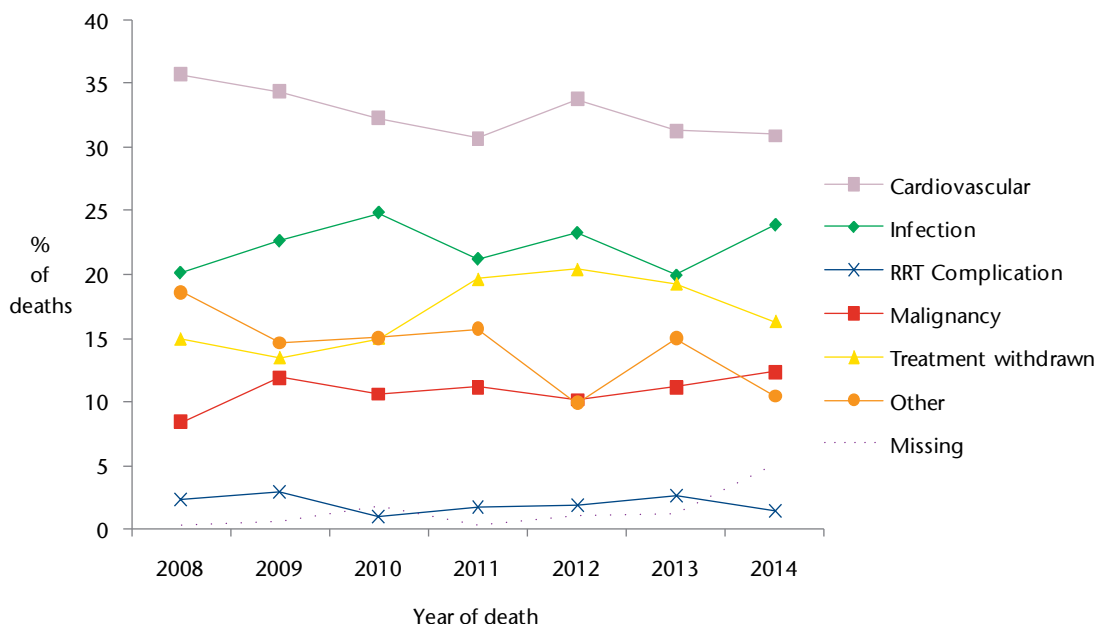
\* Percentage of deaths is expressed as: number of deaths in given year/number of patients starting RRT in given year + number prevalent on 31 December of previous year.

ERA-EDTA Cause of death codes and the groupings used in SRR reports are available on the SRR website: <http://www.srr.scot.nhs.uk/Projects/Methods.html>

Cause of death	Year														All
	2008		2009		2010		2011		2012		2013		2014		
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	
Cardiovascular	163	36	146	34	138	32	133	31	131	34	138	31	131	31	980
Infection	92	20	96	23	106	25	92	21	90	23	88	20	101	24	665
RRT Complication	10	2	12	3	4	1	7	2	7	2	11	2	6	1	57
Malignancy	38	8	50	12	45	11	48	11	39	10	49	11	52	12	321
Treatment withdrawn	68	15	57	13	64	15	85	20	79	20	85	19	69	16	507
Other	85	19	62	15	64	15	68	16	38	10	66	15	44	10	427
Missing	1	0	2	0	7	2	1	0	4	1	5	1	21	5	41
<b>Total</b>	<b>457</b>		<b>425</b>		<b>428</b>		<b>434</b>		<b>388</b>		<b>442</b>		<b>424</b>		<b>2998</b>

Cause of death for adult patients has been collected as part of the Scottish Mortality Audit of Renal Replacement Therapy (SMARRT) since January 2008. Prior to this cause of death data were less complete within the SRR. 3501 patients died whilst in receipt of RRT 2000-2007, 1790 (51%) had their cause of death recorded on the SRR. 2836 patients died whilst in receipt of RRT 1990-1999, 2034 (72%) had their cause of death recorded on the SRR.

**D3 Trends in cause of death group by year 2008-2014**

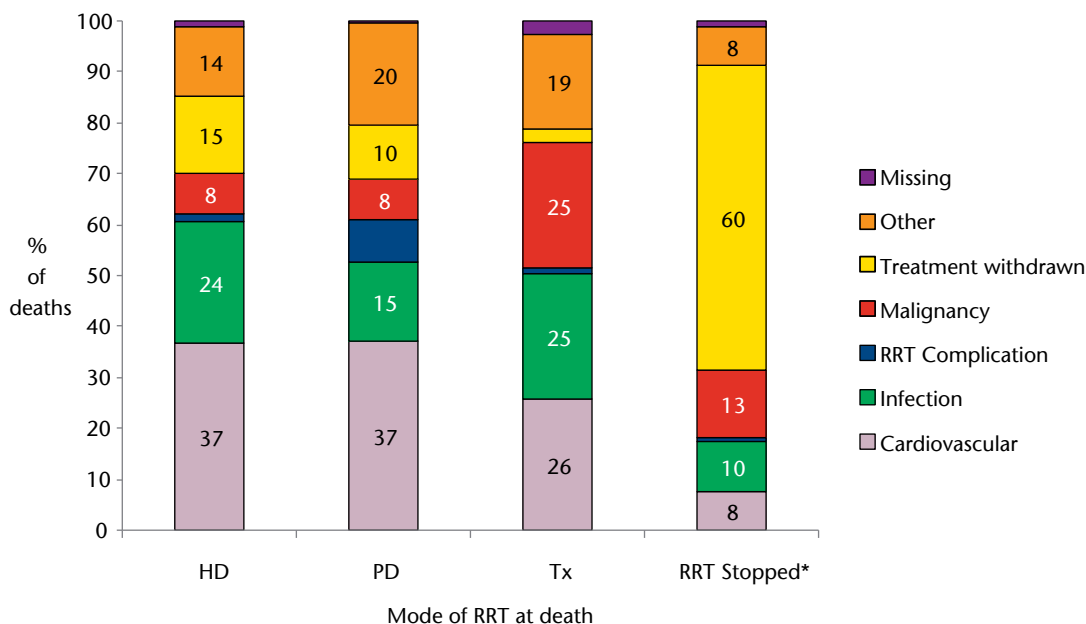


**D4 Cause of death group and modality of RRT at death 2008-2014**

Cause of death	Modality								All
	HD		PD		Tx		RRT stopped*		
	n	%	n	%	n	%	n	%	
Cardiovascular	785	37	67	37	108	26	20	8	980
Infection	508	24	28	15	104	25	25	10	665
RRT Complication	36	2	15	8	4	1	2	1	57
Malignancy	167	8	15	8	104	25	35	13	321
Treatment withdrawn	321	15	19	10	12	3	155	60	507
Other	293	14	36	20	78	19	20	8	427
Missing	26	1	1	1	11	3	3	1	41
<b>Total</b>	<b>2136</b>	<b>/</b>	<b>181</b>	<b>/</b>	<b>421</b>	<b>/</b>	<b>260</b>	<b>/</b>	<b>2998</b>

\* This group were recorded on the SRR as having stopped RRT with no recovery of renal function, prior to death. Of those patients who died after stopping RRT between 2008-2014 the median, IQR and range between stopping RRT and death was 7 days, 3-12 days and 0-88 days respectively. Over the time period 2008-2014 8 patients stopped RRT and then survived for more than 90 days. They had received RRT for a median of 356 days, range 9-2734 days before stopping RRT.

**D5 Percentage of deaths in each group by modality of RRT at death 2008-2014**



\* This group were recorded on the SRR as having stopped RRT with no recovery of renal function.

**D6 Cause of death by age group 2008-2014**

Cause of death	Age group										All
	<20		20-44		45-64		65-74		≥75		
	n	%	n	%	n	%	n	%	n	%	
Cardiovascular	1	17	52	33	298	38	289	33	340	29	980
Infection	0	0	27	17	169	22	203	23	266	22	665
RRT Complication	1	17	15	10	13	2	18	2	10	1	57
Malignancy	0	0	13	8	101	13	109	13	98	8	321
Treatment withdrawn	0	0	8	5	74	9	117	13	308	26	507
Other	1	17	36	23	122	16	119	14	149	13	427
Missing	3	50	5	3	9	1	12	1	12	1	41
<b>Total</b>	<b>6</b>	<b>/</b>	<b>156</b>	<b>/</b>	<b>786</b>	<b>/</b>	<b>867</b>	<b>/</b>	<b>1183</b>	<b>/</b>	<b>2998</b>

<b>D7 Cause of death by primary renal diagnosis 2008-2014</b>											
Cause of death	PRD Group										Total
	Glomerulo-nephritis		Interstitial		Multisystem		Diabetes		Unknown		
	n	%	n	%	n	%	n	%	n	%	
Cardiovascular	127	31	183	31	233	31	298	42	139	26	980
Infection	84	20	145	24	150	20	149	21	136	25	664
RRT Complication	10	2	13	2	9	1	10	1	15	3	57
Malignancy	58	14	92	15	104	14	21	3	46	9	321
Treatment withdrawn	56	14	65	11	149	20	123	17	114	21	507
Other	68	16	87	15	91	12	99	14	82	15	427
Missing	10	2	10	2	9	1	7	1	5	1	41
<b>Total</b>	<b>413</b>	<b>/</b>	<b>595</b>	<b>/</b>	<b>745</b>	<b>/</b>	<b>707</b>	<b>/</b>	<b>537</b>	<b>/</b>	<b>2997</b>

There is one patient with a missing PRD code.