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Table 1: Risk of cancer in Australian ESKD patients, prior to renal replacement therapy, during dialysis and after transplantation

Site†	ICD code(s)*	Up to 5 years prior to RRT‡		During dialysis		After transplantation	
		Obs§	SIR (95% CI)	Obs	SIR (95% CI)	Obs	SIR (95% CI)
Lip, Oral Cavity and Pharynx							
Lip	C00	22	1.87 (1.17 – 2.83)	29	3.68 (2.46 - 5.28)	283	47.08 (41.75 - 52.89)
Tongue	C01-02	2	0.53 (0.06 - 1.93)	12	3.28 (1.69 - 5.72)	20	7.17 (4.38 - 11.07)
Mouth	C03-C06	5	1.34 (0.43 – 3.13)	9	2.15 (0.98 - 4.08)	14	4.58 (2.51 - 7.69)
Salivary gland	C07-C08	4	2.11 (0.57 – 5.40)	2	1.20 (0.15 - 4.34)	8	7.71 (3.33 - 12.20)
Digestive							
Esophagus	C15	4	1.05 (0.28 - 2.68)	16	1.68 (0.96 - 2.74)	18	3.82 (2.26 - 6.03)
Stomach	C16	8	0.81 (0.35 - 1.60)	28	1.52 (1.01 - 2.19)	17	1.84 (1.07 - 2.94)
Small intestine	C17	2	1.25 (0.15 - 4.53)	6	3.06 (1.12 - 6.67)	2	1.73 (0.21 - 6.25)
Colon	C18	83	1.33 (1.06 - 1.65)	78	1.18 (0.93 - 1.47)	82	2.36 (1.87 - 2.92)
Rectum	C19-C20	48	1.33 (0.98 - 1.77)	37	1.02 (0.72 - 1.40)	13	0.63 (0.33 - 1.07)
Anus	C21	3	0.33 (0.07 - 0.96)	2	0.23 (0.03 - 0.82)	14	2.76 (1.51 - 4.64)
Liver	C22	4	2.87 (0.78 - 7.34)	14	2.25 (1.23 - 3.77)	10	3.19 (1.53 - 5.87)
Gallbladder	C23-C24	0	0.00 (-)	8	1.55 (0.67 - 3.05)	11	4.34 (2.16 - 7.76)
Pancreas	C25	7	2.16 (0.87 - 4.45)	18	1.17 (0.69 - 1.85)	9	1.21 (0.56 - 2.30)
Respiratory and Intrathoracic							
Larynx	C32	8	0.96 (0.42 - 1.90)	7	1.02 (0.41 - 2.11)	9	2.10 (0.96 - 3.98)
Trachea; bronchus and lung	C33-C34	34	1.07 (0.74 - 1.49)	135	1.59 (1.33 - 1.88)	102	2.45 (2.00 - 2.97)
Mesothelioma	C45	1	0.61 (0.02 – 3.37)	8	1.73 (0.75 – 3.40)	3	1.32 (0.27 – 3.85)
Skin/Connective Tissue							
Melanoma	C43	79	1.02 (0.81 - 1.27)	57	1.06 (0.81 - 1.38)	111	2.53 (2.08 - 3.05)
Connective and other soft tissue	C47-C49	2	0.49 (0.06 – 1.78)	5	1.26 (0.41 – 2.93)	12	4.13 (2.13 – 7.21)
Kaposi sarcoma¶	C46	3	19.64 (4.05 - 57.40)	6	57.88 (21.24 - 125.98)	14	207.90 (113.66 - 348.82)

KEY

†Only sites with a total of 10 or more cases.

*International Classification of Diseases, 10th Revision.

‡The expected numbers of cancers prior to RRT were adjusted by site-specific survival.

§The observed number of cases.

¶The expected numbers of Kaposi sarcoma cases were based on 1982 population rates.

Table 1, continued. Risk of cancer in Australian ESKD patients, prior to renal replacement therapy, during dialysis and after transplantation

Site†	ICD code(s)*	Up to 5 years prior to RRT‡		During dialysis		After transplantation	
		Obs§	SIR (95% CI)	Obs	SIR (95% CI)	Obs	SIR (95% CI)
Reproductive and Genitourinary							
Breast	C50	74	0.91 (0.71 - 1.14)	80	1.25 (0.99 - 1.55)	56	1.03 (0.78 - 1.34)
Ovary	C56	5	0.78 (0.25 - 1.82)	8	1.00 (0.43 - 1.98)	7	1.15 (0.46 - 2.38)
Testis	C62	6	2.10 (0.77 - 4.57)	1	0.71 (0.02 - 3.94)	4	1.25 (0.34 - 3.20)
Vulva	C51	2	1.57 (0.19 - 5.67)	2	1.59 (0.19 - 5.73)	18	24.54 (14.55 - 38.79)
Cervix uteri	C53	11	1.60 (0.80 - 2.86)	13	2.58 (1.38 - 4.42)	13	2.49 (1.33 - 4.27)
Corpus uteri	C54	19	1.53 (0.92 - 2.40)	11	1.07 (0.53 - 1.91)	13	1.74 (0.92 - 2.97)
Penis	C60	1	1.29 (0.03 - 7.16)	3	4.72 (0.97 - 13.80)	6	15.94 (5.85 - 34.69)
Prostate	C61	153	1.16 (0.98 - 1.36)	74	0.66 (0.52 - 0.83)	41	0.95 (0.68 - 1.29)
Neurological							
Eye	C69	5	2.10 (0.68 - 4.91)	2	1.22 (0.15 - 4.39)	9	7.57 (3.46 - 14.36)
Brain	C71	1	0.19 (0.00 - 1.07)	10	1.10 (0.59 - 2.05)	4	0.57 (0.16 - 1.46)
Endocrine							
Thyroid	C73	15	2.57 (1.44 - 4.24)	38	9.23 (6.53 - 12.67)	31	6.90 (4.69 - 9.79)
Hematological							
Hodgkin disease	C81	3	1.28 (0.26 - 3.75)	4	2.56 (0.70 - 6.54)	7	3.75 (1.51 - 7.73)
Non-Hodgkin lymphoma	C82-C85	35	1.51 (1.05 - 2.10)	34	1.36 (0.94 - 1.90)	155	9.86 (8.37 - 11.54)
Leukemia	C91-C95	16	0.89 (0.51 - 1.44)	20	1.14 (0.74 - 1.77)	24	2.46 (1.65 - 3.67)
Unspecified primary site	C76-C80, C26, C39	11	1.32 (0.66 - 2.36)	74	2.71 (2.12 - 3.40)	75	5.79 (4.55 - 7.25)
All cancers	C00-C96, excl. C44, C64-C68, C90	689	1.16 (1.08 - 1.25)	870	1.35 (1.27 - 1.45)	1236	3.27 (3.09 - 3.46)

KEY

†Only sites with a total of 10 or more cases.

*International Classification of Diseases, 10th Revision.

‡The expected numbers of cancers prior to RRT were adjusted by site-specific survival.

§The observed number of cases.

||Excluding NMSC and sites known to frequently cause ESKD (myeloma, kidney and renal tract).

Table 2. Risk of cancers frequently known to cause ESKD in Australian ESKD patients, prior to RRT, during dialysis and after transplantation

Site	ICD code(s)*	Up to 5 years prior to RRT†		During dialysis		After transplantation	
		Obs‡	SIR (95% CI).	Obs	SIR (95% CI)	Obs	SIR (95% CI)
Kidney	C64	193	13.15 (11.36 - 15.14)	86	5.63 (4.50 - 6.95)	70	7.30 (5.69 - 9.22)
Renal pelvis	C65	76	34.34 (27.05 - 42.98)	26	10.31 (6.74 - 15.11)	11	8.42 (4.20 - 15.06)
Ureter	C66	8	8.69 (3.75 - 17.12)	2	1.93 (0.23 - 6.97)	8	17.30 (7.47 - 34.09)
Bladder	C67	85	2.71 (2.16 - 3.35)	63	2.23 (1.71 - 2.85)	42	3.33 (2.40 - 4.50)
Other urinary organs	C68	6	16.81 (6.17 - 36.59)	5	12.06 (3.92 - 28.14)	4	24.24 (6.61 - 62.07)
Multiple myeloma and malignant plasma cell neoplasms	C90	232	33.05 (28.94 - 37.59)	84	9.58 (7.64 - 11.86)	12	2.67 (1.38 - 4.67)

KEY

*International Classification of Diseases, 10th Revision.

†The expected numbers of cancers prior to RRT were adjusted for site-specific survival.

‡The observed number of cases.