

**SUPPLEMENT TO MANUSCRIPT**

“Palliative care and the delivery of potentially inappropriate end-of-life care among patients with cancer: a nationwide retrospective population-based observational study in a mixed generalist and specialist palliative care model”

- Supplement Table 1. Vektis database - Oncology identification codes
- Supplement Table 2. Characteristics of healthcare codes for generalist and specialist palliative care across care-settings

Supplement Table1. Vektis database - Oncology identification codes

<b>Oncology identification</b>	<b>Specialist code</b>	<b>Diagnostic code</b>	<b>Oncology identification</b>	<b>Specialist code</b>	<b>Diagnostic code</b>	<b>Oncology identification</b>	<b>Specialist code</b>	<b>Diagnostic code</b>
<i>Cancer of breast</i>				0304	0221		0322	1305
				0304	0222		0322	1306
		0303	0318	0304	0223	<i>Cancer of breast, secondary</i>	0322	1307
		0313	0811	0304	0224		0303	0314
		0361	0105	0304	0225		0313	0623
				0304	0226		0313	0624
				0304	0230		0313	0629
<i>Cancer of bronchus, lung</i>							0303	0358
		0303	0313	0316	6119		0301	0358
		0313	0621	0303	0352		0302	0019
		0313	0622	0303	0363		0302	0020
		0322	1303	0305	1150		0302	0021
		0322	1304	0305	1199		0302	0040
		0328	1210	0316	6115		0302	0041
		0328	1220	0316	6120		0302	0042
		0328	1230	0307	OM17		0302	0060
		0328	1240	0361	0111		0302	0061
		0328	1250	0313	0899		0302	0062
		0328	1270	0303	0359	<i>Cancer, other &amp; unspecified primary</i>	0302	0063
		0328	1310	0318	0906		0302	0064
		0328	1340	0335	0211	<i>Cancer of Head &amp; Neck</i>	0302	0065
		0328	1430	0361	0109		0302	0066
		0328	1440	0389	0100		0302	0067
		0328	1460	0308	1145		0302	0068
		0328	1470	0308	1150		0302	0069
		0328	1510	0313	0243		0302	0072
		0328	1530	0313	0263		0302	0084
	0328	1595	0313	0264		0303	0306	
	0328	1420	0303	0301		0303	0354	
	0361	0103				0313	0801	
						0361	0101	
<i>Cancer of liver &amp; bile duct</i>				0303	0333		0303	0357
		0303	0367	0303	0347	<i>Cancer of other GI organs, peritoneum</i>	0303	0331
		0313	0955	0313	0927		0318	0810
		0316	6118	0318	0607		0361	0102
		0318	0712	0318	0610		0303	0349
	0318	0735				0313	0979	
	0303	0348						
<i>Cancer of stomach</i>				0303	0319		0303	0332
		0303	0346	0313	0904	<i>Cancer of pancreas</i>	0313	0964
		0313	0914	0318	0307		0318	0755
	0318	0407						

Supplement Table1. Vektis database - Oncology identification codes (continued)

<b>Oncology identification</b>	<b>Specialist code</b>	<b>Diagnostic code</b>	<b>Oncology identification</b>	<b>Specialist code</b>	<b>Diagnostic code</b>	<b>Oncology identification</b>	<b>Specialist code</b>	<b>Diagnostic code</b>
<i>Cancer of rectum &amp; anus</i>	0303	0334	<i>Cancer of thyroid</i>	0303	0303	<i>Melanoma</i>	0302	0001
	0303	0335		0313	0214		0303	0350
				0313	0291		0313	0842
<i>Cancer of female genital organs</i>	0307	0M13	<i>Cancer of brain &amp; nervous system</i>	0330	9921	<i>Cancer of brain &amp; nervous system (cont'd)</i>	0316	3505
	0313	0822		0304	0353		0316	6113
	0307	0M14		0308	1101		0327	0316
	0307	0M15		0308	1105		0330	0201
	0307	0M16		0308	1110		0330	0202
	0307	0M99		0308	1115		0330	0204
	0307	0M11		0308	1120		0330	0211
	0307	0M12		0308	1125		0330	0212
	0313	0821		0308	1130		0330	0213
	0313	0823		0308	1135		0330	0221
	0361	0106		0308	1140		0330	0222
				0308	1810		0330	0223
				0308	2101		0330	0231
				0308	2105		0330	0232
<i>Cancer of male genital organs &amp; prostate</i>	0306	0050	0308	2110	0330	0233		
	0306	0060	0308	2115	0330	0241		
	0306	0069	0308	2120	0330	0242		
	0306	0092	0308	2125	0330	0243		
	0313	0831	0308	2130	0330	0251		
	0306	0040	0308	3101	0330	0299		
	0306	0045	0313	0802	0361	0108		
	0306	0048						
	0313	0832						
	0361	0107						
<i>Cancer of bone &amp; connective tissue</i>	0305	1140	<i>Cancer of kidney &amp; renal pelvis</i>	0306	0025	<i>Cancer of other urinary organs</i>	0306	0020
	0313	0841		0303	0370		0306	0070
	0313	0843		0306	0010		0306	0078
	0316	6107		0306	0016		0313	0833
	0361	0104		0313	0834		0313	0839
<i>Cancer of bladder</i>			<i>Secondary malignancies</i>	0316	6116	<i>Other oncological diseases</i>		
	0306	0030		0303	0360			
	0306	0084		0305	1110		8418	0513
				0322	1308			
			0330	0203				
<i>Pain, due to malignancy</i>	0324	0715						

Supplement Table 2. Characteristics of healthcare codes for generalist and specialist palliative care across care-settings

<b>Reimbursement code</b>	<b>Type of care</b>	<b>Billable for</b>	<b>Billable timeframe</b>	<b>Location of care</b>
<i>Weighing treatment options in light of advance care planning</i>	Generalist palliative care	MO <sup>a</sup> / NP <sup>b</sup>	Throughout disease trajectory	Hospital
<i>Supportive care/ palliative care in oncology setting</i>	Generalist palliative care	MO <sup>a</sup> / NP <sup>b</sup>	Throughout disease trajectory	Hospital
<i>Interdisciplinary palliative care team</i>	Specialist palliative care	Multidisciplinary	Throughout disease trajectory	Hospital
<i>Intensive home / hospice care*</i>	Generalist palliative care	Family physician	Prognosis < 3 months	Home / Hospice
<i>Multidisciplinary meeting with primary and specialty palliative care providers</i>	Specialist palliative care	Family physician	Throughout disease trajectory	Home / Hospice
<i>Bed-side palliative care consultation</i>	Specialist palliative care	Family physician	Prognosis < 3 months	Home / Hospice
<i>Hospice care at home</i>	Generalist palliative care	Nurse	Prognosis < 3 months	Home
<i>Community hospice care</i>	Generalist palliative care	Nurse	Prognosis < 3 months	Hospice
<i>Intensive long term care*</i>	Generalist palliative care	Physician / Nurse	Prognosis < 3 months	Nursing home
<i>Intensive long term care at home*</i>	Generalist palliative care	Physician / Nurse	Prognosis < 3 months	Home
<i>Palliative care unit</i>	Generalist palliative care	Multidisciplinary	Prognosis < 3 months	Nursing home

<sup>a</sup> MO; medical oncologist. <sup>b</sup> NP; nurse practitioner. \* This reimbursement code refers to intensification of care for chronically or seriously ill patients in the last phase of their life.