

Why is co-morbidity important for cancer patients?

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Co-morbidity in cancer



Definition:-

Co-morbidity is a disease or illness affecting a cancer patient in addition to but not as a result of their index (current) cancer.





Why is co-morbidity important for cancer patients?

- Clinical decision making
- Risk adjusted outcomes analyses

- Highlighted in the CRS
 - Important but variably collected



Main elements



- Selection for treatment
- Peri-treatment mortality and toxicity
- Impact on overall (population-based) survival / prognosis
- Late effects:
 - Predicting them
 - Identifying them
- Is it feasible to expect a single scale to answer all these questions?



When to record?



Prospective Recording

- Presence or absence?
- Moderate or severe?
- Type of co-morbidity present?
- ACE-27
- Other scale e.g. ASA?

Derive retrospectively

- HES favours admitted care
- Accuracy/completeness of coding
- Less timely



Questionnaire to Site-Specific Clinical Reference Group Chairs



In your speciality area, what are:

- the indices/scores are in use?
- the most important ways in which co-morbidity affects treatment and/or outcomes?
- the major C-Ms which impact on treatment decisions and outcomes?

- Do you use 'frailty' as an indicator?
- Other comments



Site-specific review



	Breast	Colo- rectal	Gynae	Haem	H&N	Lung	Sarcoma	Skin	UGI	TYA
PS	±	+++	+	+++	+	+++	±	++	+++	±
C-M	++	+++	++	+	++	+++	+	+	+++	±
Surgery	+	+++	+	-	++	+++	+	±	+++	±
Chemo	++	++	++	++	++	++	+	+	++	±
RT	++	+	+	±	+	++	±	-	±	±
Peri-op mortality	+	++	+	-	+	+++	+	-	+++	±
Tools	ASA	ASA Possu m	UK Gosoc	ACE27 ADL	ACE 27	No (lung function)	No	No	ASA	No
Overall survival	+	++	+	+	++	+	±	±	+	±
Late effects	+++	++	+	+++	+	+	+	+	+	+++

Workshop Action Plan



- Recommend collection of ACE-27 co-morbidity score is mandated for all adult cancer patients
- Ensure that appropriate training is delivered
- Research different collection methodologies e.g. patient questionnaires
- Identify where supplementary indices or information may be required
- Continue to retrospectively calculate co-morbidity scores from HES
- Consider establishing a Co-morbidity 'CRG'





Adult Co-morbidity Evaluation-27

prospectively recorded by MDT



ACE-27



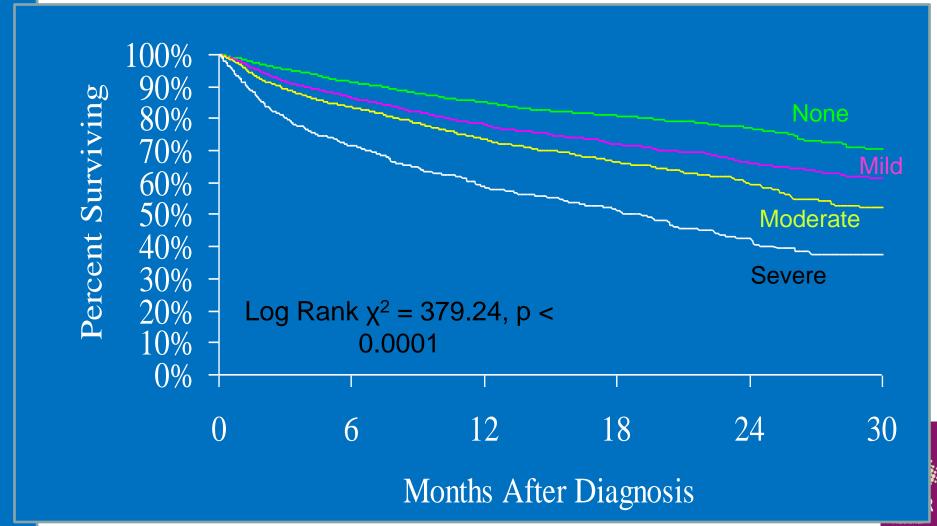
Cogent comorbid ailment	Grade 3 Severe Decompensation	Grade 2 Moderate Decompensation	Grade 1 Mild Decompensation
Cardiovascular Syster			
Myocardial Infarct	■ MI ≤ 6 months	■ MI > 6 months ago	Old MI by ECG only, age undetermined
Angina / Coronary Artery Disease	■ Unstable angina	 Chronic exertional angina Recent (≤ 6 months) Coronary Artery Bypass Graft (CABG) or Percutaneous Transluminal Coronary Angioplasty (PTCA) Recent (≤ 6 months) coronary stent 	■ ECG or stress test evidence or catheterization evidence of coronary disease without symptoms ■ Angina pectoris not requiring hospitalization ■ CABG or PTCA (>6 mos.) ■ Coronary stent (>6 mos.)
Congestive Heart Failure (CHF)	 Hospitalized for CHF within past 6 months Ejection fraction < 20% 	 Hospitalized for CHF >6 months prior CHF with dyspnea which limits activities 	 CHF with dyspnea which has responded to treatment Exertional dyspnea Paroxysmal Nocturnal Dyspnea (PND)
Arrhythmias	■ Ventricular arrhythmia ≤ 6 months	 Ventricular arrhythmia > 6 months ago Chronic atrial fibrillation or flutter Pacemaker 	■ Sick Sinus Syndrome
Hypertension	 DBP≥130 mm Hg Severe malignant papilledema or other eye changes Encephalopathy 	 DBP 115-129 mm Hg Secondary cardiovascular symptoms: vertigo, epistaxis, headaches 	■ DBP 90-114 mm Hg ■ DBP <90 mm Hg while taking antihypertensive medications
Venous Disease	 Recent PE (≤ 6 mos.) Use of venous filter for PE's 	 DVT controlled with Coumadin or heparin Old PE > 6 months 	Old DVT no longer treated with Coumadin or Heparin
Peripheral Arterial Disease	■ Bypass or amputation for gangrene or arterial insufficiency < 6 months ago ■ Untreated thoracic or abdominal aneurysm (≥6 cm)	 Bypass or amputation for gangrene or arterial insufficiency > 6 months Chronic insufficiency 	 Intermittent claudication Untreated thoracic or abdominal aneurysm (< 6 cm) s/p abdominal or thoracic aortic aneurysm repair





Prognostic Impact of Comorbidity







Charlson Score

derived retrospectively by analysts based on information in notes coded by clinical coders



Cancer Diagnosis

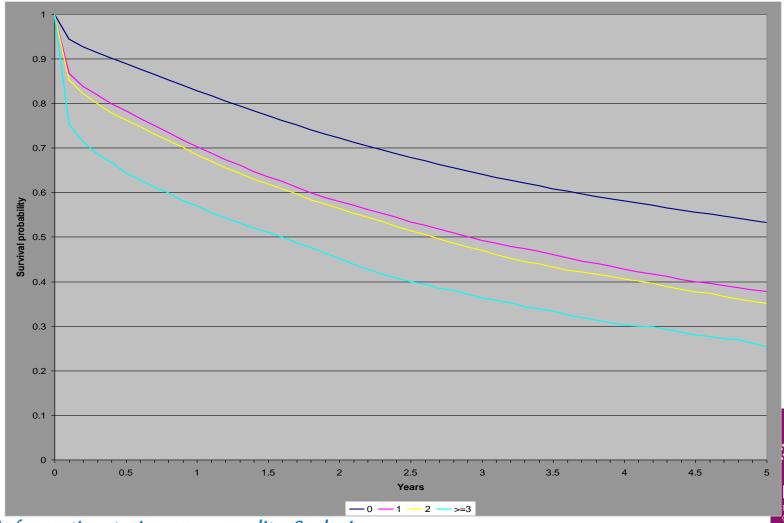


		HES 6	episodes	1 yr previ	ous	,				
						<u>/</u>				_
time	-									
						ı				_
			_		_		Charlson			
HESID DIAG_	DIAG_2	DIAG_3	DIAG_4	DIAG_5			Group	Group Description	Score	/
549478 <mark>2</mark> I211	T814	Y838	1802				1	Acute Myocardial Infarction	1	Ļ
5494782					1		2	Congestive Heart Failure		ł
5494782 D259 5494782 K740	- K528						3	Peripheral Vascular Disease	1	t
5494782 6679	/ -				•		4	Cerebral Vascular Accident	1	T
5494782							5	Dementia	1	t
5494782 D171 5494782 H332	- D569	Z853			-			Pulmonary Disease	1	12
5494782 M720	-				1		7	Connective Tissue Disorder	1	ħ
0.002 20	!		<u> </u>	-	_		8	Peptic Ulcer	1	Ι
								Diabetes	1	
					_		10	Diabetes Complications	2	
							11	Paraplegia	2	
Acute Myocar	dial Infarctio	on 1					12	Renal Disease	2	
								Cancer	2	2
Liver Disease		2					14	Metastatic Cancer	6	
Final Score		3							_	15
200.0								Severe Liver Disease	3	_
							16	HIV	6	E
							17	Liver Disease	-	[



Colorectal survival by Charlson Score







Using information to improve quality & choice

Conclusions



- NCDR has Charlson score available at individual tumour level
- Analysis needs to be undertaken to assess the best approach to calculating comorbidity from data we have available
- Work with DH/CfH on national co-morbidity project
 - SSCRGs to define pertinent conditions



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Using information to improve quality & choice

Thank you

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