Comorbidity Cancer Outcomes Conference 2013

Robin Crawford
NCIN Comorbidity Group

Why Comorbidity

- Outcomes
- Treatment options
- Measurement
 - Charlson: useful epidemiology
 - ACE 27: predictive value
- Informed choice for patient and clinician

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A NEW METHOD OF CLASSIFYING PROGNOSTIC COMORBIDITY IN LONGITUDINAL STUDIES: DEVELOPMENT AND VALIDATION

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Abstract—The objective of this study was to develop a prospectively applicable method for classifying comorbid conditions which might alter the risk of mortality for use in longitudinal studies. A weighted index that takes into account the number and the seriousness of comorbid disease was developed in a cohort of 559 medical patients. The 1-yr mortality rates for the different scores were : "0", 12% (181), "1–2", 26% (225), "3–4", 52% (71); and " \ni 5", 85% (82). The index as tested for its ability to predict risk of death from comorbid disease in the second cohort of 685 patients during a 10-yr follow-up. The percent of patients who died of comorbid disease for the different scores were: "0", 8% (588), "1", 25% (54), "2", 48% (25), " \ni 3", 59% (18). With each increased level of the comorbidity index, there were stepwise increases in the cumulative mortality attributable to comorbid disease (log rank $\chi^2=165$, p<0.0001). This hollow-up, age was also a predictor of mortality (p<0.001). The new index performed similarly to a previous system devised by Kaplan and Feinstein. The method of classifying comorbidity provides a simple, readily applicable and valid method of estimating risk of death from comorbid disease for use in longitudinal studies. Further work in larger populations is still required to refine the approach because the number of patients with any given condition in this study was relatively small.

Adult Comorbidity Evaluation 27

ORIGINAL CONTRIBUTION

Prognostic Importance of Comorbidity in a Hospital-Based Cancer Registry

Jay F. Piccirillo, MD

Ryan M. Tierney, MD Irene Costas, MPH

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Context Patients with cancer often have other medical ailments, referred to as comorbidity. Comorbidity may impact treatment decision-making, prognosis, and quality of care assessment.

Objective To assess whether comorbidity information can provide imponostic information in a hospital-based cancer registry.

Frailty: Risk assessment?



European Journal of Internal Medicine

journal homepage: www.elsevier.com/locate/ejim



The frailty dilemma. Review of the predictive accuracy of major frailty scores

Evelien Pijpers a,*, Isabel Ferreira a,b,c,d, Coen D.A. Stehouwer a,b, Arie C. Nieuwenhuijzen Kruseman a

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Five year % overall survival (95% CI)

	Comorbidity			
Cancer site	No	Yes		
All gynaecological	55.0 (54.6,55.3)	34.7 (33.8,35.6) (63.1%)†		
Cervix	66.3 (65.5,67.0)	32.8 (30.3,35.2) (49.5%)†		
Endometrium	70.2 (69.7,70.2)	52.0 (50.3,53.6) (74.1%)†		
Ovary	37.9 (37.4,38.4)	22.7 (21.5,24.0) (60.0%)†		

†Survival of comorbid cases as a percentage of non-comorbid

Probability of surgical treatment for all gynaecological cancers by site (adjusted for stage and grade): Stage 1-4 cases only

	Odds ratio by site		
Factor	Cervix	Endometrium	Ovary
Age (per year)	0.97 ***	0.99 ***	0.96 ***
Comorbidity	0.92 <i>(NS)</i>	0.65 ***	0.80 ***
Deprivation Q2	1.06 (NS)	1.06 (NS)	0.88 *
Deprivation Q3	1.09 (NS)	0.99 <i>(NS)</i>	0.88 *
Deprivation Q4	0.98 (NS)	0.98 <i>(NS)</i>	0.85 *
Deprivation Q5	0.72 **	0.76 **	0.86 *

(NS)=Not significant, *=P<.05, **=P<.01, *** P<0.001

Programme

11:15 - 11:30

Simplifying the measurement of co-morbidities and their influence on chemotherapy toxicity Dr Raj Sinha, Brighton

11:30 - 11:45

A scalable electronic system for collecting co-morbidity data in cancer outpatient clinics Dr Penny Wright, Leeds

11:45 - 12:00

Derivation of a Charlson co-morbidity index from routine HES data Carolynn Gildea , Public Health England (East Midlands)

12:00 - 12:15

What is frailty and why it is important Dr Tony Moran Public Health England (North West)