

Appendix 6 (as supplied by the authors): Comparison of C-indices (95% confidence intervals) from different model specifications for a NB-ZINB model for number of consultations

	Development model ¹		Adjusted scores ²				Unadjusted scores ³			
	37 conditions	20 conditions	Extended outcome-specific scores	Primary outcome-specific scores	Charlson comorbidity index	Primary general-outcome score	Extended outcome-specific scores	Primary outcome-specific scores	Charlson comorbidity index	Primary general-outcome score
C-index										
Development dataset	0.738	0.736	0.732	0.727	0.695	0.723	0.700	0.690	0.602	0.688
2015, 1-year follow-up	0.737 (0.736-0.739)	0.735 (0.734-0.737)	0.732 (0.731-0.734)	0.727 (0.725-0.728)	0.691 (0.690-0.693)	0.723 (0.722-0.725)	0.702 (0.701-0.704)	0.692 (0.691-0.694)	0.605 (0.603-0.606)	0.690 (0.689-0.691)
2011, 1-year follow-up	0.729 (0.728-0.731)	0.728 (0.726-0.729)	0.724 (0.722-0.725)	0.719 (0.717-0.720)	0.686 (0.684-0.688)	0.715 (0.714-0.717)	0.690 (0.689-0.692)	0.681 (0.680-0.683)	0.594 (0.593-0.595)	0.679 (0.677-0.680)
2011, 5-year follow-up	0.750 (0.749-0.752)	0.749 (0.748-0.750)	0.739 (0.738-0.740)	0.735 (0.734-0.736)	0.709 (0.708-0.711)	0.729 (0.728-0.730)	0.679 (0.678-0.681)	0.669 (0.668-0.671)	0.585 (0.583-0.586)	0.667 (0.665-0.668)

1. Using predictions from the score development model with the conditions as binary indicators, adjusted by age and gender.
2. Using predictions from a model including each score (sum of weights) adjusted by age and gender.
3. Using the score directly, without the use of a model (unadjusted).

Extended scores include all 37 conditions. Primary scores include only the 20 most important conditions according to prevalence and impact. Confidence intervals are provided only for validation datasets.