

## Supplemental material

**eTable 1: Correlation between Karnofsky Performance Score (KPS) and EORTC QLQ-HN43 scales**

Scales of the EORTC QLQ-HN43	Spearman rank correlation coefficient	
	at t1	at t2
Social contact (SC)	-0.34	-0.42
Social eating (SO)	-0.38	-0.42
Body image (BI)	-0.30	-0.39
Speech (SP)	-0.31	-0.39
Swallowing (SW)	-0.32	-0.36
Problems with teeth (TH)	-0.32	-0.33
Fear of progression (AX)	-0.20	-0.32
Problems with senses (SE)	-0.30	-0.29
Pain in the mouth (PA)	-0.16	-0.27
Swelling in the neck (SN)	-0.08	-0.27
Weight loss (WL)	-0.19	-0.26
Problems opening mouth (OM)	-0.18	-0.25
Dry mouth and sticky saliva (DR&SS)	-0.22	-0.24
Skin problems (SK)	-0.16	-0.24
Problems with wound healing (WO)	-0.16	-0.24
Coughing (CO)	-0.23	-0.22
Sexuality (SX)	-0.17	-0.18
Problems with shoulder (SH)	-0.18	-0.17
Neurological problems (NE)	-0.13	-0.12

**eTable 2: Detailed report of sensitivity and specificity per cut point in changes in swallowing problems between t1 and t2 detecting deterioration**

<b>Cutpoint &gt;=</b>	<b>Sensitivity</b>	<b>Specificity</b>	<b>Youden-Index</b>
-100	1.000	0.000	0.000
-79	0.990	0.000	-0.010
-54	0.980	0.000	-0.020
-46	0.970	0.027	-0.003
-38	0.970	0.036	0.006
-33	0.960	0.054	0.014
-29	0.960	0.090	0.050
-25	0.949	0.090	0.040
-25	0.949	0.108	0.058
-21	0.949	0.117	0.067
-17	0.939	0.171	0.111
-17	0.929	0.189	0.118
-12	0.929	0.198	0.127
-8	0.919	0.279	0.198
-4	0.909	0.324	0.233
4	0.788	0.604	0.391
8	0.768	0.613	0.380
8	0.707	0.703	0.410
8	0.697	0.703	0.400
11	0.657	0.703	0.359
15	0.646	0.703	0.349
17	0.636	0.712	0.348
17	0.556	0.766	0.321
21	0.545	0.784	0.329
25	0.424	0.847	0.271
29	0.414	0.847	0.261
33	0.354	0.865	0.218
38	0.323	0.865	0.188

42	0.323	0.874	0.197
46	0.253	0.937	0.189
53	0.192	0.946	0.138
57	0.192	0.955	0.147
58	0.141	0.991	0.132
63	0.131	0.991	0.122
71	0.101	0.991	0.092
76	0.051	0.991	0.041
81	0.040	0.991	0.031
88	0.030	1.000	0.030
96	0.020	1.000	0.020
100	0.000	1.000	0.000

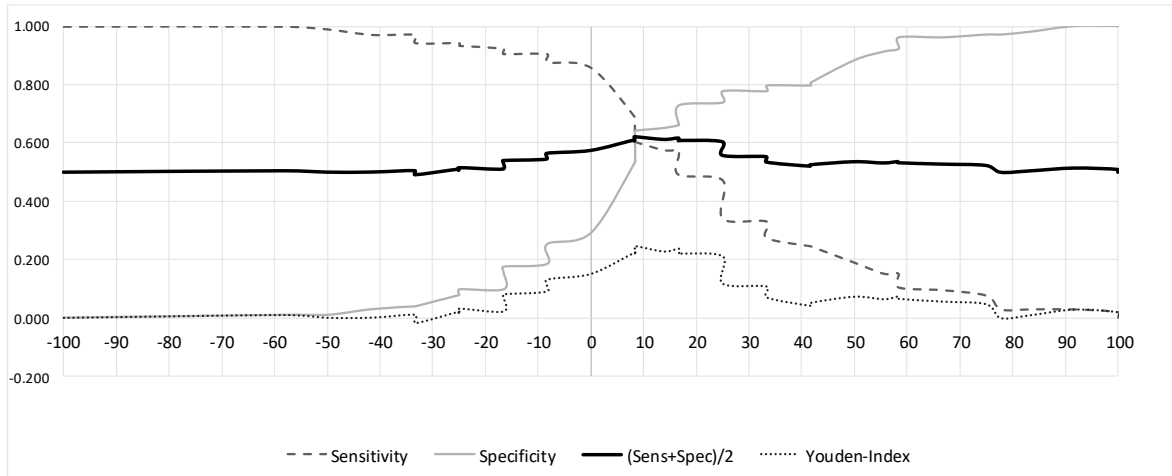
**eTable 3: Detailed report of sensitivity and specificity per cutpoint in changes in swallowing problems between t2 and t3 detecting improvement**

<b>Cutpoint &gt;=</b>	<b>Sensitivity</b>	<b>Specificity</b>	<b>Youden-Index</b>
-84	1.000	0.000	0.000
-83	0.990	0.000	-0.010
-71	0.980	0.000	-0.020
-58	0.961	0.000	-0.039
-54	0.951	0.011	-0.038
-50	0.931	0.032	-0.036
-46	0.922	0.032	-0.046
-42	0.912	0.043	-0.045
-38	0.863	0.043	-0.094
-33	0.833	0.054	-0.113
-29	0.765	0.097	-0.139
-25	0.755	0.097	-0.148
-25	0.735	0.108	-0.157
-21	0.627	0.129	-0.244
-17	0.588	0.151	-0.261
-13	0.529	0.151	-0.320
-8	0.500	0.161	-0.339
-8	0.461	0.172	-0.367
-8	0.382	0.204	-0.413
-4	0.363	0.269	-0.368
3	0.157	0.656	-0.187
7	0.157	0.667	-0.176
8	0.147	0.677	-0.176
8	0.108	0.710	-0.182
8	0.098	0.720	-0.182
11	0.098	0.753	-0.149
15	0.088	0.753	-0.159
17	0.088	0.763	-0.148
17	0.078	0.785	-0.137
17	0.059	0.806	-0.135
21	0.049	0.806	-0.145
25	0.039	0.806	-0.154
25	0.020	0.849	-0.131
29	0.020	0.860	-0.120
33	0.010	0.892	-0.098
38	0.010	0.914	-0.076
43	0.000	0.914	-0.086

47	0.000	0.925	-0.075
54	0.000	0.935	-0.065
62	0.000	0.946	-0.054

**eFigure 1: Sensitivity and specificity at various cut-points of swallowing change scores measured with the EORTC QLQ-HN43 in relation to "swallowing deteriorated/improved" from the patient perspective, measured with the Subjective Significance Questionnaire**

**Panel a: for deterioration (change from t1 to t2)**



**Panel b: for improvement (change from t2 to t3)**

