



Correction

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Correction

Article title: Early and late side effects, dosimetric parameters and quality of life after proton beam therapy and IMRT for prostate cancer: a matched-pair analysis

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When the article was first published, it contained incorrect *p*-values. Unintentionally, one *p*-value was incorrectly assigned and one-sided instead of two-sided Mann-Whitney-U tests were applied (calculated in Python 2.7, scipy 0.15.1). To correct for this error, all *p*-values calculated by this test have to be multiplied by a factor of 2. This concerns in particular Table 4, which is correctly displayed below. As a result, the majority of comparisons stays insignificant as before. The two comparisons reported as significant, have to be corrected as statistical trends: global health status at 12 months after RT (*p* = .079 instead of *p* = .040) and constipation at 3 months after RT (*p* = .068 instead of *p* = .034).

This changes the last sentence in the results section of the abstract to “Global health status increased more at 12 months after IMRT (*p* = .079) compared to PBT, while the change of constipation was better at 3 months after PBT compared to IMRT (*p* = .068).” as well as the following sentences in the results section on p. 920 to “At 3 months after RT compared to baseline, constipation was worse for the IMRT group compared to PBT group (mean difference IMRT: 6.7, PBT: −6.7, *p* = .068). The change in global health status between 12 months after RT and baseline was higher in the IMRT group compared to the PBT group (mean difference IMRT: 8.3, PBT: −2.8, *p* = .079).” The following sentence on pp. 919–920 has to be removed: “At 12

Table 4. Quality of life score differences for the EORTC QLQ-C30 and EORTC QLQ-PR25 questionnaires 3 months after RT vs baseline and 12 months after RT vs baseline for the IMRT and PBT group.

	3 months after RT - Baseline					<i>p</i> †	12 months after RT - Baseline					<i>p</i> †
	IMRT		PBT		IMRT		PBT					
	M ± SD	Extent	M ± SD	Extent	M ± SD		Extent	M ± SD	Extent			
EORTC QLQ-C30												
Functional scale												
Global health status	1.8 ± 13.1	No change	−6.0 ± 28.8	A little	.57	8.3 ± 15.0	A little	−2.8 ± 26.0	No change	.079		
Physical functioning	−4.2 ± 12.7	No change	−0.8 ± 11.1	No change	.49	−9.3 ± 21.8	A little	0.7 ± 15.2	No change	.43		
Role functioning	1.3 ± 27.6	No change	−7.7 ± 12.9	A little	.20	−11.1 ± 34.4	Moderate	0.0 ± 16.7	No change	.78		
Emotional functioning	5.6 ± 22.4	A little	11.1 ± 24.9	Moderate	.67	1.9 ± 13.7	No change	20.4 ± 35.6	Very much	.53		
Cognitive functioning	7.8 ± 17.7	A little	3.3 ± 15.7	No change	.52	0.0 ± 18.6	No change	6.2 ± 18.5	A little	.44		
Social functioning	0.0 ± 16.7	No change	10.7 ± 26.6	Moderate	.45	4.2 ± 11.8	No change	10.4 ± 30.8	Moderate	.87		
Symptom scale												
Fatigue	7.4 ± 20.0	A little	5.6 ± 21.7	A little	.67	11.1 ± 22.8	Moderate	−0.6 ± 21.7	No change	.38		
Nausea and vomiting	1.1 ± 4.2	No change	2.2 ± 8.6	No change	1.00	1.7 ± 5.3	No change	3.3 ± 10.5	No change	1.00		
Pain	−6.9 ± 27.9	A little	−1.4 ± 13.2	No change	.92	−2.1 ± 10.7	No change	4.2 ± 36.5	No change	.43		
Dyspnoea	2.2 ± 29.5	No change	2.2 ± 19.8	No change	.80	−3.3 ± 24.6	No change	0.0 ± 15.7	No change	1.00		
Insomnia	2.2 ± 23.5	No change	4.4 ± 21.3	No change	.74	3.3 ± 29.2	No change	−3.3 ± 24.6	No change	.77		
Appetite loss	2.4 ± 24.3	No change	−2.4 ± 8.9	No change	.65	−3.7 ± 20.0	No change	0.0 ± 16.7	No change	.78		
Constipation	6.7 ± 22.5	A little	−6.7 ± 13.8	A little	.068	−4.2 ± 27.8	No change	0.0 ± 17.8	No change	1.00		
Diarrhoea	4.4 ± 17.2	No change	4.4 ± 17.2	No change	.70	4.2 ± 21.4	No change	4.2 ± 11.8	No change	1.00		
Financial difficulties	−2.2 ± 19.8	No change	2.2 ± 8.6	No change	.44	11.1 ± 44.1	Moderate	−3.7 ± 11.1	No change	.65		
EORTC QLQ-PR25												
Symptom scale												
Urinary symptoms	11.9 ± 16.9	Moderate*	4.7 ± 15.2	No change	.18	16.0 ± 19.8	Moderate*	9.1 ± 19.6	A little	.38		
Bowel symptoms	9.5 ± 12.2	A little	4.8 ± 9.5	No change	.59	16.7 ± 20.4	Moderate	25.0 ± 29.7	Very much	.77		
Hormone treatment-related symptoms	6.0 ± 18.5	A little	4.8 ± 9.2	No change	.69	8.8 ± 22.2	A little	−3.3 ± 11.5	No change	.88		
Incontinence aid	19.0 ± 26.2	Moderate	4.8 ± 23.0	No change	.39	13.3 ± 16.3	Moderate	33.3 ± 47.1	Very much	.72		

On functional scales, high scores represent a healthy level of functioning or global health status. High scores on symptom scales represent a high level of symptomatology. Classification of extent of the changes in “no change”, “a little”, “moderate” and “very much” according to [26].

Abbreviations: EORTC, European Organisation for Research and Treatment of Cancer; QLQ-C30, general quality of life questionnaire; QLQ-PR25, prostate-cancer specific questionnaire; IMRT, intensity-modulated radiotherapy; PBT, proton beam therapy; RT, radiotherapy; M, mean; SD, standard deviation.

†Mann-Whitney U Test; **p*-value < .05 in Wilcoxon signed-rank test between different time points and for one treatment modality

months after RT, the social functioning score was significantly lower for the IMRT group ($p < .001$) and constipation, diarrhea, bowel symptoms and hormone treatment-related symptoms were significantly worse in the IMRT group compared to the PBT group." Furthermore, in the sentence "Similar QoL values were observed for constipation at 3 months after RT compared to baseline leading to a significant difference between IMRT and PBT (Table 4)." of the discussion p. 923 the term "significant difference" has to be changed to "statistical trend".

Related errors in the supplemental content have been corrected in an updated version: while the graphs in the supplemental Figures S1-S5 were correctly displayed, no significant differences between the PBT and IMRT group could be observed at any time for any QoL scale. Updated p -values in supplemental Tables S4 and S5 did not lead to changes in significance.

The main results and the conclusion of the article in both manuscript and abstract are not affected by these corrections.

The authors apologise for these errors.