



UNIVERSITY OF LEEDS

This is a repository copy of *Feasibility of preference-driven radiotherapy dose treatment planning to support shared decision making in anal cancer*.

White Rose Research Online URL for this paper:
<http://eprints.whiterose.ac.uk/115742/>

Version: Supplemental Material

Article:

Rønde, HS, Wee, L, Pløen, J et al. (1 more author) (2017) Feasibility of preference-driven radiotherapy dose treatment planning to support shared decision making in anal cancer. *Acta Oncologica*, 56 (10). pp. 1277-1285. ISSN 0284-186X

<https://doi.org/10.1080/0284186X.2017.1315174>

© 2017 Taylor & Francis. This is an Accepted Manuscript of an article published by Taylor & Francis in *Acta Oncologica* on 27th April 2017, available online:
<http://www.tandfonline.com/10.1080/0284186X.2017.1315174>.

Reuse

Items deposited in White Rose Research Online are protected by copyright, with all rights reserved unless indicated otherwise. They may be downloaded and/or printed for private study, or other acts as permitted by national copyright laws. The publisher or other rights holders may allow further reproduction and re-use of the full text version. This is indicated by the licence information on the White Rose Research Online record for the item.

Takedown

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing eprints@whiterose.ac.uk including the URL of the record and the reason for the withdrawal request.



eprints@whiterose.ac.uk
<https://eprints.whiterose.ac.uk/>

Table 3. Dose metrics for the four treatment regimens

Plan regimens	Bowel V_{45Gy} [cm³]	Bladder V_{35Gy} [%]	PCI*
High dose	482 (409-633)	73.8 (68.5-78.8)	0.71 (0.69-0.74)
Low dose	248 (195-315)	63.6 (50.9-69.9)	0.71 (0.69-0.73)
Δ from high dose [†]	-234	-13.7	-0.01
Bladder sparing	285 (220-351)	44.6 (32.5-56.3)	0.68 (0.66-0.70)
Δ from high dose [†]	-193	-30.3	-0.03
Δ from low dose [†]	26	-13.6	-0.03
Bowel sparing	229 (159-269)	72.2 (63.4-81.9)	0.71 (0.69-0.74)
Δ from high dose [†]	-281	-1.7	0.0
Δ from low dose [†]	-32	10.8	0.0
Δ from bladder sparing [†]	-71	28.3	0.04

All values are medians, numbers in parenthesis are 1st and 3rd interquartile ranges. * Plan Conformity Index (PCI) for PTV-N (see text for definition). †A negative value means that the metric in question (in percentages or cubic centimetres) is lower compared to the regimen mentioned. **Bold text:** Significance at the 1% level (p<0.01) using paired rank tests.