Supplementary material for Nilsson et al., A template for writing radiotherapy protocols, Acta Oncologica, 2015; 54:275–9.

Supplementary Table I. Example of a prescription priority list for head-and-neck cancer.

Priority	Volume/structure	Objective/ Constraint	Endpoint (CTCAEv4.0)	Comment
1*	SpinalCord	$D_{\max} \leq 48 \text{ Gy}$	Myelopathy grade 2	
2*	PRV_SpinalCord	$D_{\max} \leq 50 \text{ Gy}$	Myelopathy grade 2	$D_{\max} \leq 48 \text{ Gy}$ if concomitant CTH
3*	BrainStem	$D_{2\%} \leq 54 \text{ Gy}$	Neurologic toxicity grade 2	
4*	(Chiasm)	$D_{2\%} \leq 54 \text{ Gy}$	Visual impairment grade 2	
5*	PRV_Chiasm	$D_{2\%} \leq 56 \text{ Gy}$	"	
6	OpticNerve_R/L	$D_{2\%} \leq 54 \text{ Gy}$	"	
7	PRV_OpticNerve_R/L	$D_{2\%} \leq 56 \text{ Gy}$	"	
8	GTV_68	$D_{98\%} \geq 97\%$		
9	PTV_68	$D_{98\%} \geq 95\%$		
10	PTV_68	$D_{2\%} \leq 105\%$		
11	CTV_66	$D_{98\%} \geq 97\%$		
12	PTV_66	$D_{98\%} \geq 95\%$		
13	CTV_60	$D_{98\%} \geq 97\%$		
14	PTV_60	$D_{98\%} \geq 95\%$		
15	LacrimalGland_R/L	$D_{\text{avg}} \leq 30 \text{ Gy}$	Eye dryness grade 2	
16	CTV_50	$D_{98\%} \geq 97\%$		
17	PTV_50	$D_{98\%} \geq 95\%$		
18	PTV_46	$D_{98\%} \geq 95\%$		
19	Parotid_R/L	$D_{\text{avg}} \leq 25 \text{ Gy}$ (both glands)	Xerostomia grade 3	$D_{\text{avg}} \leq 20 \text{ Gy}$ (one gland)
20	Larynx	$D_{\text{avg}} \leq 40 \text{ Gy}$	Oedema grade 2	
21	Pharynx	$D_{\text{avg}} \leq 50 \text{ Gy}$	Dysphagia grade 3	
22	OralCavity	$D_{\text{avg}} \leq 24 \text{ Gy}$	Acute mucositis dysphagia, xerostomia grade 3	
23	Retina_R/L	$D_{2\%} \leq 45 \text{ Gy}$	Visual impairment grade 2	
24	Lens_R/L	$D_{2\%} \leq 5 \text{ Gy}$	Cataract grade 2	
25	Cochlea_R/L	$D_{2\%} \leq 40 \text{ Gy}$	Hearing loss grade 2	$D_{2\%} < 10 \text{ Gy}$ if concomitant CTH
26	Oesophagus_Upper	$D_{\text{avg}} \leq 40 \text{ Gy}$	Dysphagia grade 3	
27	Mandible	$D_{2\%} \leq 68 \text{ Gy}$	Osteoradionecrosis grade 2	
28	Submandibular_R/L	$D_{\text{avg}} \leq 39 \text{ Gy}$	Xerostomia grade 3	
29	Body	$D_{\max} \leq 107\%$		

*Hard constraint