

Supplementary File

Table S1. Cost per typical patient in 5 x 5 Gy scheme in PREMODE clinical trial

Activity	Quantity	Cost [EUR]	
Emergency admission	1	554.84	PHASE 1 Diagnosis
Oncological radiotherapy consultation (first visit)	1	106.96	
Oncological radiotherapy nursing consultation	1	99.62	
MRI whole spinal cord	1	145.03	
Lab test and tumour marker	1	8.82	
		915.27	
CT planning without contrast	1	99.62	PHASE 2 Treatment Preparation
MRI and CT fusion + contouring (20 mins RTT)	1	119.23	
Treatment volume contouring (30 mins doctor)	1		
Dosimetry calculation (40 mins physicist)	1		
Quality control (25 mins physicist)	1		
Quality control (15 mins machine time)	1		
Dosimetry approval (5 mins doctor)	1		
			218.85
Hospital admission 7 days	7	2,992.15	PHASE 3 Treatment
BeamView CBCT (daily) (10 mins machine time)	5	522.11	
Radiotherapy sessions (5 mins machine time)	5		
Radiotherapy treatment	5		
Weekly follow-up radiotherapy consultation (doctor)	1	53.48	
Weekly follow-up nursing consultation	1	99.62	
		3,667.36	
		4,801.48	Total cost

MRI — magnetic resonance imaging; CT — computed tomography; RTT — trained radiation therapist; CBCT — cone-beam computed tomography

Table S2. Cost per typical patient in 5 x 4 Gy (3D) scheme following routine clinical practice

Activity	Quantity	Cost [EUR]	
Emergency admission	1	554.84	Phase 1: diagnosis
Oncological radiotherapy consultation (first visit)	1	106.96	
Oncological radiotherapy nursing consultation	1	99.62	
MRI whole spinal cord	1	145.03	
Lab test and tumour marker	1	8.82	
		915.27	
CT planning without contrast	1	99.62	Phase 2: treatment preparation
MRI and CT fusion + contouring (20 mins RTT)	1	38.60	
Treatment volume contouring (15 mins doctor)	1		
Dosimetry calculation (15 mins physicist)	1		
Dosimetry approval (5 mins doctor)	1		
		138.22	
Hospital admission 7 days	7	2,992.15	Phase 3: treatment
BeamView CBCT (initially) (2 mins machine time)	1	3.20	
Radiotherapy sessions (15 mins machine time)	5	24.01	
Radiotherapy treatment	5	498.10	
Weekly follow-up radiotherapy consultation (doctor)	1	53.48	
Weekly follow-up nursing consultation	1	99.62	
		3,670.56	
		4,724.05	Total cost

MRI — magnetic resonance imaging; CT — computed tomography; RTT — trained radiation therapist; CBCT — cone-beam computed tomography

Table S3. Cost per typical patient in 10 x 3 Gy (3D) scheme following routine clinical practice

Activity	Quantity	Cost [EUR]	
Emergency admission	1	554.84	Phase 1: diagnosis
Oncological radiotherapy consultation (first visit)	1	106.96	
Oncological radiotherapy nursing consultation	1	99.62	
MRI whole spinal cord	1	145.03	
Lab test and tumour marker	1	8.82	
		915.27	
CT planning without contrast	1	99.62	Phase 2: treatment preparation
MRI and CT fusion + contouring (20 mins RTT)	1	38.60	
Treatment volume contouring (15 mins Doctor)	1		
Dosimetry calculation (15 mins Physicist)	1		
Dosimetry approval (5 mins Doctor)	1		
		138.22	
Hospital admission 14 days	14	5,984.30	Phase 3: treatment
BeamView CBCT (1 weekly) (4 mins machine time)	2	1,050.62	
Radiotherapy sessions (30 mins machine time)	10		
Radiotherapy treatment	10		
Weekly follow-up radiotherapy consultation (doctor)	2	106.96	
Weekly follow-up nursing consultation	2	199.24	
		7,341.12	
		8,394.61	Total cost

MRI — magnetic resonance imaging; CT — computed tomography; RTT — trained radiation therapist; CBCT — cone-beam computed tomography