

Supplementary article data

Local delivery of a selective androgen receptor modulator failed as an anabolic agent in a rat bone marrow ablation model

Hannu T ARO^{1,3}, Julia KULKOVA¹, Niko MORITZ^{1,2}, Esa KÄHKÖNEN³, and Riina H MATTILA¹

¹ Orthopaedic Research Unit, Department of Orthopaedic Surgery and Traumatology, University of Turku and Turku University Hospital, Turku;

² Turku Clinical Biomaterials Centre, Institute of Dentistry, University of Turku, Turku; ³ Turku University Hospital, Turku, Finland.

Correspondence: hannu.aro@utu.fi

Submitted 2015-01-10. Accepted 2015-05-21.

Table 2. Tissue mineral density. Values are mean (standard deviation)

Group	Tissue mineral density (mg/cm ³)			
	Intramedullary new bone		Cortex	
	6 weeks	12 weeks	6 weeks	12 weeks
Placebo control	1,149 (57)	1,175 (32)	1,279 (36)	1,318 (22)
10% ORM-11984	1,184 (42)	1,218 (20)	1,277 (13)	1,300 (36)
30% ORM-11984	1,219 (79)	1,238 (74)	1,341 (65)	1,326 (77)
50% ORM-11984	1,149 (56)	1,259 (62)	1,279 (20)	1,347 (79)
Negative control	1,145 (35)	1,266 (79)	1,268 (19)	1,344 (55)

Table 3. Equivalent periosteal radius, endosteal radius and cortical thickness. Values are mean (standard deviation) μm

Experimental groups	Equivalent periosteal radius		Equivalent endosteal radius		Cortical thickness	
	6 weeks	12 weeks	6 weeks	12 weeks	6 weeks	12 weeks
Placebo control	1,656 (50) ^a	1,628 (62)	1,007 (70)	990 (57)	649 (37)	638 (18)
10% ORM-11984	1,744 (40) ^a	1,663 (140)	1,104 (55)	1,072 (127)	640 (25)	591 (40) ^{b,c}
30% ORM-11984	1,677 (38)	1,615 (86)	1,032 (52)	967 (57)	645 (14)	648 (30) ^b
50% ORM-11984	1,677 (55)	1,649 (39)	1,014 (42)	975 (45)	662 (42)	673 (10)
Negative control	1,669 (39)	1,641 (103)	1,003 (49)	985 (126)	666 (19)	656 (29) ^c

^a p = 0.07, ^b p = 0.05, ^c p = 0.03 (one-way ANOVA with Tukey's post-hoc test)