

## Appendix C – The Bone Density Data

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This appendix displays all of the data used in this project. The data is ordered according to the radiograph number from which it was derived and then by image number. For example, Radiograph number 1 contained 3 images (image numbers 1, 2 & 3). These images were of the left scapula, humerus and radius of skeleton number 1 (all fused). The radiographic density, measured bone thickness and object to film distance (t) for the proximal, distal and shaft scan-sites of these elements are shown. Data derived from this information (the magnification factor (M), corrected bone thickness, and corrected bone density) are also shown. See section 7.4.4 for an explanation of t and M.

A key to the abbreviations used in this appendix is given below.

Scan-Site	Element	Side	Fusion
<b>P</b> = Proximal	<b>Scap</b> = Scapula	<b>Left</b> = Left	<b>F</b> = Fused
<b>D</b> = Distal	<b>Hum</b> = Humerus	<b>Right</b> = Right	<b>UF</b> = Unfused
<b>S</b> = Shaft	<b>Rad</b> = Radius	<b>LL</b> = Left lateral	<b>FING</b> = Fusing
	<b>MetaC</b> = Metacarpal	<b>LM</b> = Left Medial	“Blank” = No fusion data
	<b>MetaT</b> = Metatarsal	<b>RL</b> = Right lateral	
	<b>Tibia</b> = Tibia	<b>RM</b> = Right medial	
	<b>Fem</b> = Femur	<b>H</b> = Hind limb	
	<b>Pelvis</b> = pelvis	<b>F</b> = Fore limb	

As described in section 7.3.2, different settings were used to take the radiographs. These settings, and the codes used to describe them in this appendix, are set out below.

Radiographic Settings Code	Kv	MA	Exposure Time (seconds)	Film to Focus Distance (mm)	Filter
1	50	3	<b>70</b>	556	0.2mm Al
2	50	3	<b>25</b>	556	0.2mm Al
3	50	3	<b>35</b>	556	0.2mm Al
4	50	3	<b>85</b>	556	0.2mm Al