

The oral health of a group of 19<sup>th</sup> Century South Australian settlers in relation to their general health and compared with that of contemporaneous samples. Gurr et al., 2023.

## Supplementary Material

**Table S2. Large Volume Micro-CT.** Settings used for scanning of the dentition in situ in the dentoalveolar complex of the human skulls from the St Mary's Cemetery individuals, using the Nikon XT H 225 ST Micro-CT system. In choosing the scanning settings, the transmitted signal intensity and source power settings were considered according to guidelines (Wearne et al 2022, du Plessis et al. 2017).

<b>Skeletal region LV Micro-CT scanned</b>	<b>St Mary's ID</b>	<b>Pixel size (<math>\mu\text{m}</math>)</b>	<b>Source voltage (kV)</b>	<b>Source Current (<math>\mu\text{A}</math>)</b>	<b>Source Power (W)</b>	<b>Rotation step</b>	<b>Exposure time (seconds)</b>	<b>Filter Type</b>	<b>Filter thickness (mm)</b>	<b>X-ray projections</b>	<b>Total acquisition time (hours/minutes)</b>
<b>Skull</b>	<b>SMB 73</b>	60	190	220	41	360°	1.42	Sn	0.1	3000	1 hr 10 mins
	<b>SMB 52B</b>	60	190	220	41	360°	1.42	Sn	0.1	3000	1 hr 10 mins
<b>Cranium only</b>	<b>SMB 82</b>	40	190	210	40	360°	1.42	Sn	0.1	3000	1 hr 10 mins
	<b>SMB 66B</b>	50	190	220	41	360°	1.42	Sn	0.1	3000	1 hr 10 mins
	<b>SMB 58</b>	35	190	184	35	360°	1.42	Sn	0.1	3000	1 hr 10 mins
	<b>SMB 4A</b>	55	190	220	41	360°	1.42	Sn	0.1	3000	1 hr 10 mins
<b>Mandible only</b>	<b>SMB 82</b>	18	190	68	12.9	360°	2	Al	0.5	3000	1 hr 40 mins
	<b>SMB 73</b>	13	190	68	12.9	360°	2	Al	0.5	3000	1 hr 40 mins
	<b>SMB 66B</b>	13	190	68	12.9	360°	2	Al	0.5	3000	1 hr 40 mins
	<b>SMB 58</b>	21	190	95	18	360°	2	Al	0.5	3000	1 hr 40 mins
	<b>SMB 52B</b>	22	190	68	12.9	360°	2	Al	0.5	3000	1 hr 40 mins
	<b>SMB 4A</b>	20	190	68	12.9	360°	2	Al	0.5	3000	1 hr 40 mins

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### **References:**

- du Plessis**, A., Broeckhoven, C., Guelpa, A., le Roux, S.G., 2017. Laboratory x-ray micro-computed tomography: a user guideline for biological samples, *Gigascience* 6, 1-11.
- Wearne**, L.S., Rapagna, S., Taylor, M., Perilli, E., 2022. Micro-CT scan optimisation for mechanical loading of tibia with titanium tibial tray: A digital volume correlation zero strain error analysis, *Journal of the mechanical behavior of biomedical materials* 134, 105336-105336.