

**Table 2.** Strontium, oxygen (including  $\delta^{18}\text{O}_{\text{dw}}$  as calculated by modified Levinson equation, see Chenery et al., 2009), carbon and nitrogen isotopes values and collagen quality indicators for human bone, enamel and dentine samples from Catterick and Baines (CBF= Baines Farm; CBRI=Catterick Bridge; CDS= Dere Street; CHP=Honeypot Road; CRC=Race Course) with basic anthropological information. Sample numbers correspond to AML numbers as given in Mays (2002). Tooth samples are denominated: M1= 1<sup>st</sup> permanent molar; M2 = 2<sup>nd</sup> permanent molar; M3= 3<sup>rd</sup> molar)

Sample	Sex	Age	$^{87}\text{Sr}/^{86}\text{Sr}$	Sr ppm	$\delta^{18}\text{O}_P (\pm 1\sigma)$	$\delta^{18}\text{O}_{\text{DW}} (\pm 1\sigma)$	$\delta^{13}\text{C}$	$\delta^{15}\text{N}$	%C	%N	C/N	%Coll
CBF-255-M2 Sr dentine rib	F	35-39	0.71035	46	$+17.75 \pm 0.04$	$-6.6 \pm 0.1$	-20.8	10.6	38.4	13.6	3.3	3.0
			0.709315	302.2			-20.8	10.5	42.16	14.9	3.3	2.6
CBF-277-M3 phalanx	M	35-45	0.71368	114	$+17.28 \pm 0.14$	$-7.7 \pm 0.3$	-19.7	11.2	43.1	15.5	3.2	
							-19.2	11.9	41.7	14.7	3.3	5.5
CBF-324-P2 CBF-324-M3 rib	M?	20-25	0.70923	118	$+18.53 \pm 0.11$	$-4.9 \pm 0.2$	-19.2	10.9	43.3	15.8	3.2	
			0.70935	131			$+18.35 \pm 0.11$	$-5.3 \pm 0.2$	-19.3	11.9	43.0	15.7
CBF-422-M3 tibia	F	45+	0.70899	94	$+17.07 \pm 0.07$	$-8.1 \pm 0.1$	-20.2	10.1	45.4	16.4	3.2	8.8
							-20.4	9.8	42.7	15.5	3.2	13.8
CBF-475-M3 rib	M	20-25	0.71034	75	$+17.94 \pm 0.12$	$-6.2 \pm 0.3$	-20.2	10.2	44.3	15.9	3.3	9.4
							-20.5	9.5	41.7	14.7	3.3	6.2
CBF-564-M2	?	15-18	0.70925	122	$+17.08 \pm 0.10$	$-8.1 \pm 0.2$	-19.7	9.7	45.4	16.4	3.2	9.3
CBF-632-M2 tibia	?	4-6	0.71053	57	$+18.02 \pm 0.19$	$-6.1 \pm 0.4$	-20.4	10.9	45.2	16.3	3.2	5.9
							-20.7	9.8	42.0	14.8	3.3	2.0
CBF-678-M3 rib	M	40-45	0.70911	89	$+16.92 \pm 0.05$	$-8.4 \pm 0.1$	-20.3	11.0	43.3	15.6	3.2	
							-19.9	10.6	42.9	15.6	3.2	20.1
CBF-679-M2 rib	?	12-15	0.71367	106	$+17.73 \pm 0.05$	$-6.7 \pm 0.1$	-20.2	9.7	40.5	14.7	3.2	7.7
							-20.0	10.2	42.6	15.4	3.2	15.7
CBF-687-M1		<5	0.70946	94	$+18.95 \pm 0.07$	$-4.0 \pm 0.2$						
CBF-709-M2 Sr dentine rib	M	45-50	0.70903	85	$+18.09 \pm 0.03$	$-5.9 \pm 0.1$	-19.3	9.6	41.3	14.9	3.2	6.6
			0.70935	189.2			-19.6	10.9	42.6	15.5	3.2	19.7

CBF-746-M2	M	45+	0.71095	90	+17.13 ± 0.01	-8.0 ± 0.0							
CBF-746-M3 rib			0.71053	104	+17.53 ± 0.10	-7.1 ± 0.2	-19.9 -19.6	10.9 10.9	45.5 42.6	16.6 15.5	3.2 3.2	12.2 15.5	
CBF-756-P2 rib	F	25-30	0.71031	74	+17.91 ± 0.13	-6.3 ± 0.3		-20.5	10.4	42.0	15.2	3.2	14.6
CBF-801-M3 rib	F	35+	0.70955	153	+18.52 ± 0.07	-5.0 ± 0.2	-19.8 -19.6	11.6 11.4	46.3 42.7	16.6 14.8	3.2 3.4	8.8 5.3	
CBF-812-M1 humerus	?	4-6	0.70952	64	+17.89 ± 0.07	-6.3 ± 0.2	-20.1 -19.6	12.0 11.4	44.9 41.2	15.4 14.9	3.4 3.2	4.0 10.5	
CBF-CX732-M3			0.71016	50	+16.81 ± 0.07	-8.7 ± 0.2	-20.1	11.2	45.4	16.3	3.2	6.7	
CBRI-037-M2 tibia	M	adult	0.71016	78	+17.80 ± 0.09	-6.5 ± 0.2	-19.5 -20.0	11.5 11.2	46.0 39.2	16.6 13.8	3.2 3.3	6.5 6.2	
CBRI-077-M3 radius	?F	25-30	0.71026	84	+17.99 ± 0.02	-6.1 ± 0.1	-19.7 -20.2	11.3 11.6	43.3 41.5	15.7 14.6	3.2 3.3		3.8
CBRI-136-M2 rib	M	20-25	0.70997	61	+17.26 ± 0.11	-7.7 ± 0.2	-19.9 -20.1	10.4 10.2	43.3 42.6	15.6 15.4	3.2 3.2		11.7
CBRI-163-M2 femur	?	20-25	0.71005	96	+17.64 ± 0.10	-6.9 ± 0.2		-19.8	11.5	42.8	15.6	3.2	9.0
CBRI-166-M3 rib	M	25-30	0.71047	80	+17.37 ± 0.10	-7.5 ± 0.2	-20.4 -20.4	10.7 11.5	27.9 42.7	9.5 15.5	3.4 3.2	1.4 13.6	
CBRI-389-M1 femur	?	4-5	0.7096	50	+17.84 ± 0.13	-6.4 ± 0.3		-20.9	11.6	42.2	14.6	3.4	7.8
CBRI-484-M1 Sr dentine rib	?	2-2.5	0.70947 0.70947	143 223.4	+17.74 ± 0.06	-6.7 ± 0.1		-19.7	9.9	42.3	15.4	3.2	13.3
CDS-PIV9-P2 scapula	M	35-45	0.71026	138	+18.08 ± 0.12	-5.9 ± 0.3		-20.8	11.8	42.6	15.0	3.3	7.3
CHP-941-M3 Sr dentine long bone	M	20-25	0.70979 0.70951	100 234.8	+17.02 ± 0.07	-8.2 ± 0.2		-20.5	10.9	38.4	13.0	3.5	1.9
CHP-942-P2	?M	40+	0.70999	87	+17.51 ± 0.13	-7.1 ± 0.3							

CHP-942-M3		0.70952	80	+18.04 ± 0.17	-6.0 ± 0.4							
long bone						-20.2	11.4	40.3	13.8	3.4	2.0	

**Table 3.** Carbon and nitrogen stable isotope values, collagen quality indicators and basic anthropological information for human bone samples (individuals with no teeth available for sampling). For key to cemetery sites, see captions Table 2.

Sample	Bone	Sex	Age	$\delta^{13}\text{C}$	$\delta^{15}\text{N}$	%C	%N	C/N	%Coll.
CBF-293	skull	?M	adult	-20.3403	10.207681	42.705	15.1	3.3	4.4
CBF-316	radius	F	45+	-20.5	10.8	40.0	14.2	3.3	7.4
CBF-510	rib	?	3-4	-20.7	9.2	43.0	15.5	3.2	12.3
CBF-545	rib	?	35+	-20.3	9.8	42.0	14.8	3.3	3.0
CBF-577	fibula	F	adult	-20.5	10.2	41.4	14.7	3.3	2.6
CBF-755	fibula	M	45+	-20.2	10.3	41.0	14.4	3.3	1.1
CBF-765	rib	M	35+	-20.3	10.3	43.4	15.6	3.2	1.1
CBF-950	tibia	F	adult	-20.8	10.4	35.8	12.3	3.4	4.4
CBF-CX174	fibula		35+	-19.6	11.1	41.6	14.7	3.3	5.1
CBRI-023	humerus	?	adult	-19.3	11.4	42.8	15.5	3.2	12.8
CBRI-129	long bone	?M	45+	-19.0	10.7	42.2	15.3	3.2	9.7
CBRI-267	rib	M	35-40	-20.0	11.3	41.3	14.6	3.3	6.3
CBRI-340	rib	M	25-30	-20.1	9.9	42.6	15.5	3.2	11.2
CBRI-517	fibula	M	20-25	-19.9	10.0	41.0	14.6	3.3	6
CDS-RIII3	rib	?M	adult	-20.5	10.9	41.8	14.7	3.3	6.4
CRC-562	long bone	?M	adult	-19.6	11.6	34.0	12.2	3.3	1.7
CRC-593	long bone	?F	adult	-19.7	10.8	38.6	13.8	3.3	10.2