

University of Dundee

DOCTOR OF PHILOSOPHY

An anthropological investigation into the facial preservation of ceremonial tsantsa and commercial shrunken heads

Houlton, Tobias

Award date:
2015

[Link to publication](#)

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Appendix 12

Sex estimation according to male hair patterns (shrunken head collection)

Each shrunken head had their biological sex estimated according to the presence of male signifying features. Results for each specimen in listed in Table A12-1 (*appendix pp.1-4*). Summaries of results are available for facial hair evidence (Table A12-2, *appendix p.4*), terminal follicle evidence (Table A12-3, *appendix p.4*), and sex estimation (Table A12-4, *appendix pp.5*).

Table A12-1: Identified male signifiers (facial hair, terminal facial hair follicles identified using IRR and UVF, male pattern baldness).

Head ID	Processor origin	Facial hair presence	Follicle patterns	Location (IRR/UVF)	Male pattern baldness	Sex Estimation
A95789	Ceremonial	None.	Weak.	Chin, upper lip (IRR).		Possibly male.
A121104	Ceremonial	None.	Weak.	Cheeks, under chin (IRR).		Possibly male.
A642550	Ceremonial	None.				
A642560	Ceremonial	None.	Weak.	Cheeks, upper lip, chin (IRR).		Possibly male.
E165119B0	Ceremonial	Evident moustache hairs circle lip perforations.	Evident.	Chin, upper lip (IRR).		Male.
E403395-0	Ceremonial	None.				
A38099	Commercial	None.	Weak.	Cheeks, chin (IRR).		Possibly male.

Head ID	Processor origin	Presence	Follicle patterns	Location (IRR/UVF)	Male pattern baldness	Sex Estimation
A61492	Commercial	Closely trimmed moustache, sideburns, seldom grey hairs across chin and jaw line.				Male.
A63428	Commercial	Few dark R sideburn hairs remain.	Evident.	Upper lip (IRR).		Male.
A63429	Commercial	None.				
A68229	Commercial	None.				
A68231	Commercial	None.				
A97275	Commercial	None.				
A102935	Commercial	Moustache, sparse brown and white chin beard.				Male.
A109084	Commercial	None.				
A119820	Commercial	None.				
A130409	Commercial	Weak black moustache, sparse black chin hairs - too dark and thick to be facial down.				Male.
A190320	Commercial	None.				
A221683	Commercial	Moustache and chin beard.				Male.
A230414	Commercial	None.				
A642477	Commercial	None.				
A642549	Commercial	Remains of moustache and chin beard. Seldom hairs visible across cheeks.	Weak.	Chin, upper lip (IRR).		Male.
A642556	Commercial	None.				
A642557	Commercial	Moustache and chin beard with soul patch. Sparse hairs across jaw line.				Male.
A642564	Commercial	None.				
A642565	Commercial	None.				
378202	Commercial	None.				
CONTROL 400206	Commercial	Moustache, chin beard.				Male.
E326930-0	Commercial	None.				
E358641-0	Commercial	None.				
E358642-0	Commercial	None.	Weak.	Eyebrow region, upper lip (UVF).		Possibly male.
E378203-0	Commercial	None.				

Head ID	Processor origin	Presence	Follicle patterns	Location (IRR/UVF)	Male pattern baldness	Sex Estimation
E378892	Commercial	None.				
E382592-0	Commercial	None.				
E387845-0	Commercial	None.				
E397131-0	Commercial	Soul patch, stubble rash with sparse hairs across upper lip and jaw line.	Weak.	Sideburns (IRR).		Male.
E411333-0	Commercial	None.				
N387872-0	Commercial	None.				
P387657-0	Commercial	None.				
P387659-0	Commercial	Light sideburns level to inferior lobes.				Possibly male.
P387660-0	Commercial	Full beard.			Male pattern baldness.	Male.
P387661-0	Commercial	None.				
A36675	Ambiguous	None.				
A41122	Ambiguous	None.				
A44058	Ambiguous	None.				
A95788	Ambiguous	Closely trimmed moustache.				Male.
A121091	Ambiguous	Closely trimmed moustache, side burns.				Male.
A155039	Ambiguous	None.				
A161722	Ambiguous	None.	Weak.	Upper lip (IRR).		Possibly male.
A191643	Ambiguous	None.	Weak.	Cheeks, upper lip, chin (IRR).		Possibly male.
A233681	Ambiguous	None.				
A642548	Ambiguous	Trimmed sparse moustache.				Male.
A642551	Ambiguous	None.				
A642552	Ambiguous	None.				
A642553	Ambiguous	None.	Weak.	L cheek, upper lip, chin (IRR).		Possibly male.
A642554	Ambiguous	None.				

Head ID	Processor origin	Presence	Follicle patterns	Location (IRR/UVF)	Male pattern baldness	Sex Estimation
A642555	Ambiguous	None.	Weak.	Cheeks, upper lip (IRR).		Possibly male.
A642558	Ambiguous	None.				
A642559	Ambiguous	None.				
A642561	Ambiguous	Evident moustache hairs circle lip perforations.	Weak.	Chin, upper lip (IRR).		Male.
A642562	Ambiguous	None.				
A642563	Ambiguous	None.				
E039500	Ambiguous	None.				
E315111-0	Ambiguous	None.				
Elgin1	Ambiguous	None.	Evident.	Cheeks, chin, upper lip (IRR).		Male.

	None	Present
Ceremonial	5	1
% of 6 heads	83.33	16.67
Commercial	26	10
% of 36 heads	72.22	27.78
Ambiguous	19	4
% of 23 heads	82.61	17.39
TOTAL	50	15
% of 65 heads	76.92	23.08

Table A12-2: Facial hair evidence.

	Follicle evidence (evident)	Follicle evidence (weak)	None
Ceremonial	1	3	2
% of 6 heads	16.67	50	33.33
Commercial	1	5	30
% of 36 heads	2.78	13.89	83.33
Ambiguous	1	6	16
% of 23 heads	4.35	26.09	69.57
TOTAL	3	14	48
% of 65 heads	4.62	21.54	73.85

Table A12-3: Terminal follicle evidence using UVF and IRR.

	Male	Possibly male	Uncertain
Ceremonial	1	3	2
% of 6 heads	16.67	50	33.33
Commercial	10	3	23
% of 36 heads	27.78	8.33	63.89
Ambiguous	5	6	12
% of 23 heads	21.74	26.09	52.17
TOTAL	16	10	39
% of 65 heads	24.62	15.38	60

Table A12-4: Sex estimation using facial hair and terminal follicle patterns.