

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 5

## Eyelids and brows (shrunken head collection)

Records on each head, in relation to the suturing and presentation of the eyelids, are available from Table A5-1 (*appendix pp.1-7*).

Records related to the shape, density and direction of the eyebrows in each specimen are maintained in Table A5-2 (*appendix pp.7-10*).

**Table A5-1:** The suturing and presentation of eyelids for each specimen (\*MTS – multifilament twisted string).

Head ID	Processor origin	Position of eyelids	Visible sutures			Eyelid closure	Eyelash exposure
			Location	Material	Other		
A95789	Ceremonial	Tightly drawn and sutured from interior.				Closed.	Not visible.
A121104	Ceremonial	Tightly drawn and sutured from interior.				Closed.	L Lashes pass from sutured lids / R Not visible.
A642550	Ceremonial	Tightly drawn and sutured from interior.				Closed.	Not visible.
A642560	Ceremonial	Tightly drawn and sutured from interior.	L&R medial lids.	*MTS - vegetable fibre string.		Closed.	Not visible.
E165119B0	Ceremonial	Tightly drawn and sutured from interior.				Closed.	Not visible.
E403395-0	Ceremonial	Tightly drawn and sutured from interior.	L&R medial lids.	*MTS - vegetable fibre string.	Prominent stitch work.	Closed.	Not visible.

Head ID	Processor origin	Position of eyelids	Visible sutures			Eyelid closure	Eyelash exposure
			Location	Material	Other		
A38099	Commercial	L upper lid drawn over lower / R lower lid drawn over upper.	R lateral lid.	*MTS - vegetable fibre string.		Closed.	Deteriorated.
A61492	Commercial	Upper lids drawn over lower.				Closed - upper lids edge eversion.	Full upper lashes.
A63428	Commercial	Upper lids drawn over lower.				Closed.	Full upper lashes.
A63429	Commercial	Upper lids drawn over lower.				Closed - upper lids edge eversion.	Full upper lashes.
A68229	Commercial	Upper lids drawn over lower.				Closed.	Full upper lashes.
A68231	Commercial	Tightly drawn and sutured from interior.	L&R lids.	*MTS - thin vegetable fibre string.		Closed.	Not visible.
A97275	Commercial	Upper lids drawn over lower.				Closed.	Full upper lashes.
A102935	Commercial	Upper lids drawn over lower.				Closed - L upper lid edge eversion.	Upper lashes (present centrally).
A109084	Commercial	Upper lids drawn over lower.				Closed.	Full upper lashes.
A119820	Commercial	Upper lids drawn over lower.				Closed.	Full upper lashes.
A130409	Commercial	Upper lids drawn over lower.				Closed.	Full upper lashes.
A190320	Commercial	Upper lids drawn over lower.			Pitch coats L&R eyelids. R eyelid remains to have a chrysophora chrysocloa beetle wing elytra applied.	Closed.	Deteriorated.

Head ID	Processor origin	Position of eyelids	Visible sutures			Eyelid closure	Eyelash exposure
			Location	Material	Other		
A221683	Commercial	Upper lids drawn over lower.				Closed.	Full upper lashes.
A230414	Commercial	Upper lids drawn over lower.				Closed - R upper lid edge eversion.	Deteriorated.
A642477	Commercial	Upper lids drawn over lower.	L&R central lids.	*MTS - fine black thread.		Closed.	Full upper lashes.
A642549	Commercial	Loosely drawn and sutured from interior.	L lid / R medial lid.	*MTS - fine black thread.		Minor opening (deteriorated sutures/damage).	Not visible.
A642556	Commercial	Lids drawn evenly together.	R lid.	*MTS - vegetable fibre string.		Closed.	L&R central upper and lower lashes visible.
A642557	Commercial	Upper lids drawn over lower.	L&R lids.	*MTS - thin vegetable fibre string.		Closed - upper lids edge eversion.	L lower lashes / R central upper and lower lashes.
A642564	Commercial	Lids drawn evenly together.				Minor opening.	L upper and lower lashes visible. R medial and lateral of upper and lower lashes visible.
A642565	Commercial	Upper lids drawn over lower.				Closed - L upper lid edge eversion.	Upper lashes (sparse).
378202	Commercial	Upper lids drawn over lower.	R central lid.	*MTS - fine black thread.		Closed - L upper lid edge eversion.	Full upper lashes.
CONTROL 400206	Commercial	Upper lids drawn over lower.				Closed - upper lids edge eversion.	Full upper lashes.
E326930-0	Commercial	Upper lids drawn over lower.	R medial lid.	*MTS - vegetable fibre string.		Closed - L upper lid edge eversion.	Full upper lashes.
E358641-0	Commercial	Upper lids drawn over lower.	R central lid.	*MTS - thin vegetable fibre string.		Closed.	Full upper lashes.

Head ID	Processor origin	Position of eyelids	Visible sutures			Eyelid closure	Eyelash exposure
			Location	Material	Other		
E358642-0	Commercial	Upper lids drawn over lower.	R lid.	*MTS - fine black thread.	Sutures pass from inferior rim of upper lid.	Closed.	Full upper lashes.
E378203-0	Commercial	Upper lids drawn over lower.	R central lid.	*MTS - vegetable fibre string.		Closed - upper lids edge eversion.	Full upper lashes.
E378892	Commercial	Upper lids drawn over lower.			Pitch coats upper lids and secures fitted eyelashes.	Closed.	False upper lashes fitted.
E382592-0	Commercial	Upper lids drawn over lower.	L medial lid / R central lid.	*MTS - thin vegetable fibre string.		Closed - upper lids edge eversion.	Full upper lashes.
E387845-0	Commercial	Upper lids drawn over lower.	L&R medial lids.	*MTS - vegetable fibre string.		Closed.	Full upper lashes.
E397131-0	Commercial	Upper lids drawn over lower.	L central lid.	*MTS - fine black thread.	Stretched suture passes from inferior rim of upper lid.	Closed.	Deteriorated.
E411333-0	Commercial	Upper lids drawn over lower.				Closed - R upper lid edge eversion.	Full upper lashes.
N387872-0	Commercial	Upper lids drawn over lower.				Closed.	Upper lashes (deteriorated centrally).
P387657-0	Commercial	Upper lids drawn over lower.	R central lid.	*MTS - fine black thread.		Closed.	Full upper lashes.
P387659-0	Commercial	Upper lids drawn over lower.				Closed.	Full upper lashes.
P387660-0	Commercial	Upper lids drawn over lower.				Closed - upper lids edge eversion.	Deteriorated.
P387661-0	Commercial	Upper lids drawn over lower.				Closed - upper lids edge eversion.	Full upper lashes.

Head ID	Processor origin	Position of eyelids	Visible sutures			Eyelid closure	Eyelash exposure
			Location	Material	Other		
A36675	Ambiguous	Tightly drawn and sutured from interior.				L Minor opening (deteriorated sutures/damaged) / R Closed.	Not visible.
A41122	Ambiguous	Tightly drawn and sutured from interior.			Pitch coats L eyelid (disguise damage).	L Minor opening (deteriorated sutures/damaged) / R Closed.	Not visible.
A44058	Ambiguous	Tightly drawn and sutured from interior.				Closed.	L&R Lashes pass from sutured lids.
A95788	Ambiguous	Tightly drawn and sutured from interior.				Closed.	Not visible.
A121091	Ambiguous	Tightly drawn and sutured from interior.				Closed.	Not visible.
A155039	Ambiguous	Tightly drawn and sutured from interior.	R medial lid.	*MTS - vegetable fibre string.		L Closed / R Minor opening (deteriorated sutures/damaged).	Not visible.
A161722	Ambiguous	Tightly drawn and sutured from interior.				Closed.	Not visible.
A191643	Ambiguous	L tightly drawn and sutured from interior / R loosely drawn and sutured with much of the lower lid still visible.	L / R medial lids.	*MTS - vegetable fibre string.		L Minor opening (deteriorated sutures/damaged) / R Closed.	Not visible.
A233681	Ambiguous	Tightly drawn and sutured from interior.	L central lid.	*MTS - vegetable fibre string.		Minor opening (deteriorated sutures/damage).	Not visible.
A642548	Ambiguous	Tightly drawn and sutured from interior.				Minor opening (deteriorated sutures/damage).	Not visible.
A642551	Ambiguous	Tightly drawn and sutured from interior.	L&R medial lids.	*MTS - vegetable fibre string.		Closed.	Not visible.

Head ID	Processor origin	Position of eyelids	Visible sutures			Eyelid closure	Eyelash exposure
			Location	Material	Other		
A642552	Ambiguous	L upper lids drawn over lower / R lower lid drawn over upper.	L&R medial to central lids.	*MTS vegetable fibre string,	Prominent stitch work. *Cont. O.	Closed.	Not visible.
A642553	Ambiguous	Tightly drawn and sutured from interior.				Closed.	Not visible.
A642554	Ambiguous	Tightly drawn and sutured from interior.	L lid.	*MTS - vegetable fibre string.		Closed.	Not visible.
A642555	Ambiguous	Tightly drawn and sutured from interior.				Closed.	Not visible.
A642558	Ambiguous	Tightly drawn and sutured from interior.			Pitch coats L eyelid and across transverse nasal region (disguise damage).	Closed.	Not visible.
A642559	Ambiguous	Tightly drawn and sutured from interior.	R lid.	*MTS - vegetable fibre string.		L Closed / R Minor opening (deteriorated sutures/damaged).	Not visible.
A642561	Ambiguous	Tightly drawn and sutured from interior.			Transverse layer of pitch coats orbital width. Repair damage in L lid (evident from internal head).	Closed.	Not visible.
A642562	Ambiguous	Tightly drawn and sutured from interior.	R medial lid.	*MTS - vegetable fibre string.		Minor opening (deteriorated sutures/damage).	Not visible.
A642563	Ambiguous	Tightly drawn and sutured from interior.	R medial lid.	*MTS - vegetable fibre string.		Closed.	Not visible.
E039500	Ambiguous	Transverse cut across orbital width. Lids distorted.				Damaged.	Damaged/ Deteriorated.

Head ID	Processor origin	Position of eyelids	Visible sutures			Eyelid closure	Eyelash exposure
			Location	Material	Other		
E315111-0	Ambiguous	Tightly drawn and sutured from interior.			Pitch coats L&R eyelids.	Closed.	Not visible.
Elgin1	Ambiguous	Tightly drawn and sutured from interior.	R medial lid.	*MTS - vegetable fibre string.		Closed.	Not visible.

**Table A5-2:** Visual assessments pertaining to the shape, density and direction of the eyebrows in each specimen.

Head ID	Processor origin	Shape	Density	Direction	Other
A95789	Ceremonial	L partly deteriorated across brow, remaining hair appears straight and medially down turned (modelling distortion) / R worn.			Low set, prominent.
A121104	Ceremonial	L&R laterally deteriorated - likely straight.	Thick (where present).	Downturned (where present).	Low set, prominent - eyebrows covers eyes.
A642550	Ceremonial	Straight.	Thick.	Downturned.	Low set, prominent.
A642560	Ceremonial	Straight.	Thick.	Downturned.	Low set, prominent - eyebrows covers eyes.
E165119B0	Ceremonial	Straight.	Thick.	Downturned.	Low set, prominent - eyebrows covers eyes.
E403395-0	Ceremonial	Straight.	Thick.	Downturned.	Low set, prominent - eyebrows covers eyes.
A38099	Commercial				
A61492	Commercial	Straight.	Thick.	Downturned.	
A63428	Commercial	Straight.	Thick.	Downturned.	
A63429	Commercial	Straight.	Thick.	Neutral.	Few medial eyebrow hairs evident.
A68229	Commercial	Straight.	Thick.	Neutral.	



Head ID	Processor origin	Shape	Density	Direction	Other
A68231	Commercial	Straight (fungal pattern evidence).			Fungal pattern suggests a straight brow.
A97275	Commercial	Straight.	L thin (worn)/ R Thick.	Neutral.	Narrow brow height.
A102935	Commercial	Straight.	Thick.	Downturned.	
A109084	Commercial	Straight.	Thick.	Neutral.	
A119820	Commercial	L&R laterally deteriorated - likely straight.	Thick (where present).	Neutral (where present).	
A130409	Commercial	Straight.	Thick.	Downturned.	
A190320	Commercial				
A221683	Commercial	Straight.	Thick.	L Neutral/ R Downturned.	
A230414	Commercial				
A642477	Commercial	Straight.	Thick.	Downturned.	
A642549	Commercial				
A642556	Commercial	Straight.	Thick.	Neutral.	
A642557	Commercial	Straight.	Thick.	Neutral.	
A642564	Commercial	Straight.	Thick.	Neutral.	
A642565	Commercial				
378202	Commercial	Straight.	Thick.	Downturned.	
CONTROL 400206	Commercial	Straight.	Thick.	Neutral- entering a downturned position.	
E326930-0	Commercial	Straight.	Thick.	Downturned.	R - low set, prominent.
E358641-0	Commercial	Straight.	Thick.	Neutral.	
E358642-0	Commercial				Estimation from UVF - straight eyebrow.
E378203-0	Commercial	Straight.	Thick.	Neutral.	
E378892	Commercial	Straight.	Thick.	Neutral.	
E382592-0	Commercial	Straight.	Thick.	Neutral- entering a downturned position.	Few medial eyebrow hairs evident.

Head ID	Processor origin	Shape	Density	Direction	Other
E387845-0	Commercial	Straight.	Thick.	Neutral- entering a downturned position.	Few medial eyebrow hairs evident.
E397131-0	Commercial				
E411333-0	Commercial	Straight.	Thick.	Neutral.	
N387872-0	Commercial	L worn / R straight.	L worn / R thick.	Neutral.	
P387657-0	Commercial	Straight.	Thick.	Downturned.	
P387659-0	Commercial	Straight.	Thick.	Neutral.	
P387660-0	Commercial				
P387661-0	Commercial	Straight.	Thick.	Downturned.	
A36675	Ambiguous	L straight / R worn.	L thick / R worn.	Downturned.	Low set, prominent.
A41122	Ambiguous	Straight.	Thick.	Downturned.	Low set, prominent - eyebrows covers eyes.
A44058	Ambiguous	L&R medially and laterally deteriorated - likely straight.	L thick (where present) / R heavily deteriorated.	Downturned.	Low set, prominent - L eyebrow covers eyes.
A95788	Ambiguous	Straight.	Thick.	Downturned.	Low set, prominent - eyebrows covers eyes.
A121091	Ambiguous	Straight - appears medially raised (modelling distortion).	Thick.	Downturned.	Low set, prominent - eyebrows covers eyes.
A155039	Ambiguous				Low set, prominent.
A161722	Ambiguous				Low set, prominent.
A191643	Ambiguous				Low set, prominent.
A233681	Ambiguous	L Worn / R Straight.	L worn / R thick.	Downturned.	Low set, prominent - R eyebrow covers eyes.
A642548	Ambiguous	Straight.	Thick.	Downturned.	Low set, prominent - eyebrows covers eyes.
A642551	Ambiguous				Low set, prominent.
A642552	Ambiguous	L Worn / R laterally deteriorated.	Thick (where present).		

Head ID	Processor origin	Shape	Density	Direction	Other
A642553	Ambiguous	Straight - appears medially downturned (modelling distortion).	Thick.	Downturned.	Low set, prominent - L eyebrow covers eyes.
A642554	Ambiguous				Low set, prominent.
A642555	Ambiguous	L straight / R worn.	L thick / R worn.	Downturned.	Low set, prominent - eyebrows covers eyes.
A642558	Ambiguous	L&R laterally deteriorated - likely straight.	Thick (where present).	Neutral (where present).	Low set, prominent.
A642559	Ambiguous	L&R laterally deteriorated - likely straight, appears medially Weak upturn of nasal base.	L thick (where present) / R heavily deteriorated.	Neutral (where present).	Low set, prominent.
A642561	Ambiguous	Straight.	Thick.	Downturned.	Low set, prominent - eyebrows covers eyes.
A642562	Ambiguous				Low set, prominent.
A642563	Ambiguous	Straight.	Thick.	Downturned.	Low set, prominent - eyebrows covers eyes.
E039500	Ambiguous				Low set, prominent.
E315111-0	Ambiguous				Low set, prominent.
Elgin1	Ambiguous	Straight.	Thick.	Downturned.	Low set, prominent - eyebrows covers eyes.