

Ancient Monuments Laboratory  
Report 8/95

A MEDIEVAL BURIAL RECOVERED  
DURING THE 1988 EXCAVATIONS  
AT FOUNTAINS ABBEY, NORTH  
YORKSHIRE

S A Mays

AML reports are interim reports which make available the results of specialist investigations in advance of full publication. They are not subject to external refereeing and their conclusions may sometimes have to be modified in the light of archaeological information that was not available at the time of the investigation. Readers are therefore asked to consult the author before citing the report in any publication and to consult the final excavation report when available.

Opinions expressed in AML reports are those of the author and are not necessarily those of the Historic Buildings and Monuments Commission for England.

Ancient Monuments Laboratory Report 8/95

A MEDIEVAL BURIAL RECOVERED  
DURING THE 1988 EXCAVATIONS  
AT FOUNTAINS ABBEY, NORTH  
YORKSHIRE

Simon Mays

Summary

A skeleton was recovered from the eastern cloister alley at Fountains Abbey. Examination of the bones revealed that the interment was a male who was probably aged about 30-50 years at death. He suffered from *hallux valgus*, lateral deviation of the big toe, accompanied by a bunion at its base. This was almost certainly caused by habitual wearing of shoes which constricted the toes.

Author's address :-

S A Mays

Ancient Monuments Laboratory  
English Heritage  
23 Savile Row  
London  
W1X 1AB

A Mediaeval burial recovered during the 1988 excavations in  
Fountains Abbey, North Yorkshire

**Context:** 1046, extended inhumation, orientated west-east, in eastern range of cloisters.

**The skeleton:** The bones are poorly preserved with significant soil erosion. Many show black staining, particularly the skull.

**Sex:** Male (Brothwell 1981).

**Age:** Molar wear (Brothwell 1981: Fig. 3.9) suggests 25-35, however cranial suture closure (Perizonius 1984) is consistent with a middle aged adult. There is extensive ossification of costal cartilages, a phenomenon which is not usual until at least middle age. Thus 1046 would appear to be best classified as about 30-50 years of age at death.

**Stature:** 162cm (5'4") (estimated from long-bone length, using the formulae of Trotter & Gleser 1952, reproduced in Brothwell 1981).

**Dental formula:**

.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.
8	7	6	5	4	3	2	1	1	2	3	4	5	6	7	8	
8	7	6	5	4	3	2	1	1	2	3	4	5	6	7	8	
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	C

LEFT

RIGHT

Key: .=tooth present in socket; X=socket present but tooth missing post-mortem; C=caries cavity

**Notes:** The left first metatarsal shows lateral deflection of the proximal hallucial phalanx; there is also slight osteoarthritis at this joint. There is a small cystic erosion on the medial side of the head of the metatarsal. The right first metatarsal shows slight lateral deflection of its distal joint surface, but is otherwise normal.

The above changes are consistent with hallux valgus. This is the lateral deviation of the big toes, often accompanied by formation of bunions, caused by tight-fitting footwear. It would seem likely that burial 1046 from Fountains Abbey habitually wore footwear which constricted the toes. Hallux valgus has been found by the writer to have a frequency of about 8% in adult skeletons from a Mediaeval urban group (Mays 1991) and 3% in a large series of Mediaeval peasant skeletons from Wharham Percy (Mays, in prep). In both assemblages most cases were males. Artistic representations and archaeological finds of footwear confirm that shoes which must have constricted the toes were worn in Mediaeval times (Steane 1985: 282-283).

There are several faint transverse lines on the anterior dentition. These are hypoplastic lines, and they form as a result of growth disturbances to the teeth. Such growth disturbances may occur due to poor nutrition or infectious disease during the period in which the tooth crowns were forming (Skinner & Goodman 1992), in the case of the permanent anterior teeth, from about 1 - 4½ years. Dental enamel hypoplasias are frequent findings in archaeological material.

There were, in addition, several minor pathologies and anomalies present in this skeleton. Data on these, together with those on the metric and non-metric variables, may be found in archive at the Ancient Monuments Laboratory, English Heritage.

### References

- Brothwell, D.R. (1981). Digging Up Bones (3rd edition). Oxford University Press/British Museum (Natural History), Oxford.
- Mays, S.A. (1991). The Mediaeval Burials From the Blackfriars Friary, School Street, Ipswich, Suffolk. Ancient Monuments Laboratory Report 16/91. English Heritage, London.
- Mays, S.A. (in prep). The Burials From Wharham Percy. York University Archaeological Publications.
- Perizonius, W.R.K. (1984). Closing and Non-Closing Sutures in 256 Crania of Known Age and Sex From Amsterdam (AD 1883-1909). Journal of Human Evolution 13: 201-206.
- Skinner, M. & Goodman, A.H. (1992). Anthropological Uses of Developmental Defects of Enamel. In (Saunders, S.R. & Katzenburg, M.A., eds) Skeletal Biology of Past Peoples: Research Methods. Wiley-Liss, Chichester. pp. 153-174.
- Steane, J.M. (1985). The Archaeology of Mediaeval England and Wales. Croom Helm, London.