BEESTON CASTLE - Human bone report

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Two adult speletons were examined. Both were fairly solid but were a little eroded, especially at the articulations.

Burial 1 (BC 72 437 & 438)

This speleton was found in a wooden coffin and is probably of 17th centuary date. It is probably male and aged 17-25 on the basis of dental wear.

The soull contained a large number of wormian bones; 8 loose and 2 nartly fused ones in the lambdoid suture, one in the saggital suture and one rarietal notch bone on the right side of the soull. There was also a roundish hole about 2cm across on the line of the lambdoid suture. The unper side of the hole (in the parietal bone) is rather irregular in outline and may represent the suture of another wormian bone that has become eroded. The edge shows only a few small areas of cancellous bone. By way of contrast the lower edge of the hole is far more regular and shows cancellous tissue all round. The hole could have been made post mortem.

The dental formula is as follows:-

	OC E Molar Wear:
	1 2 3 4 5 6 7 8 M ₁ = 2+
87 6 5 4 3 2 1 LCLCDC	12345678 M ₂ = 2
MC MC	$M_3 = 2$

O = tooth erupting

NP = tooth not developed

A = abscess

E = nulp cavity exposed

LC = labial caries

MC = medial

OC = distal

OC = occlusal

There was slight evidence of peridontal disease and slight denosits of calculus on the teeth which also showed a medium amount of hypoplasia.

There was slight overjet with the upper anterior teeth coming in front of the lower ones when the mandible was articulated.

The maximum estimated stature, using Trotter and Gleser's formulae for white American males is 166 cm. (5'5")(2)

There is very little sign of degenerative joint disease (osteo-arthritis), slight traces being visible on a few ribs and on a few thoracio vertebrae. The arch of the first sacral vertebra is not fused.

Burial 2 (BC 72 2144 & 2145) --

This si-eleton is of uni-nown date. It is that of a male who died in his twenties.

The skull, like that of burial 1, contained many wormian bones. There are 7 in the lambdoid suture and one in the saggital suture. In addition there are 2 parietal notch bones and 2 squamo-parietal ossicles, one on each side, and an epinteric bone on the left side.

The dental formula is:-

/= nost mortem loss

X = ante mortem loss

There is very slight overjet of the upper teeth. Slight hypoplasia is visible on the first and second molars and slight calculus on most of the teeth. In general peridontal disease is medium but it is severe in the region of 6 and 7. The abscess associated with 6 may have healed.

The maximum estimated stature is 176 cm. (5'9")? There is slight evidence of degenerative joint disease on the lower vertebrae and on some ribs. The hands are also slightly affected.

I am grateful to Dr. J.L. Price of the Royal Surrey County Hosnital for the following radiology report:

"There is corticated new bone formation on the outer mid shaft of the left femur. The original cortex is narrowed with an ill-defined outer margin. The outer cortical bone is smooth and merges with the upner cortex but at the lower end there is a notch. From this it annears that the neriostium and some cortical bone has been elevated from below and new bone formed underneath. One could sheculate that trauma from a sharp implement directed upwards could produce this effect. Repetitive trauma is possible but unlikely at this site. There is no radiological evidence of infection.

There is a healed fracture, many years old, of the lower third of the shaft of the right ulna.

There is some erosion and an irregular periostial reaction of the mid shaft of the right fibula. A long standing adjacent soft tissue inflammatory process is the most limely cause.

References:

(1) Brothwell, D.R. (1963) Digging up bones p.69

(2) Trotter and Gleser (1958) Amer. J. Phys. Anthrop. np.79-123