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Publications

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## TA3 Femora Data

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### U2.38.315

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Femur greater trochanter roughening (left): 1

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1100

Random GLM Analysis

Estimated age at death = 38.5 years

Estimated lower 95% bound = 16.6 years

Estimated upper 95% bound = 61 years

Standard Error = 11.9

Corr(Age and Pred Age) = 0.812

---

### U2.38.303

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 0

Sample size = 1150

Random GLM Analysis

Estimated age at death = 51.2 years  
Estimated lower 95% bound = 21.6 years  
Estimated upper 95% bound = 82.5 years

Standard Error = 14  
Corr(Age and Pred Age) = 0.727

---

### U2.38.281

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femur greater trochanter roughening (left): 0  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 36.7 years  
Estimated lower 95% bound = 11.7 years  
Estimated upper 95% bound = 61.1 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

### U2.38.275

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 1

Femoral trochanteric fossa exostoses (left): 0

Sample size = 1150

Random GLM Analysis

Estimated age at death = 51.2 years

Estimated lower 95% bound = 21.6 years

Estimated upper 95% bound = 82.5 years

Standard Error = 14

Corr(Age and Pred Age) = 0.727

---

### **U2.38.265**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.265**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.253**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

-----  
Trait: score  
-----

Femur greater trochanter roughening (left): 1

Femoral trochanteric fossa exostoses (left): 0

Sample size = 1150

Random GLM Analysis

Estimated age at death = 51.2 years

Estimated lower 95% bound = 21.6 years

Estimated upper 95% bound = 82.5 years

Standard Error = 14

Corr(Age and Pred Age) = 0.727

---

### **U2.38.219**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femur greater trochanter roughening (left): 1

Femoral trochanteric fossa exostoses (left): 1

Femoral trochanteric medial surface exostoses (left): 1

Sample size = 1137

Random GLM Analysis

Estimated age at death = 72.6 years

Estimated lower 95% bound = 47.8 years

Estimated upper 95% bound = 96.4 years

Standard Error = 13

Corr(Age and Pred Age) = 0.774

---

**U2.38.200**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 0

Femoral trochanteric fossa exostoses (left): 0

Sample size = 1150

Random GLM Analysis

Estimated age at death = 38.2 years

Estimated lower 95% bound = 11.3 years

Estimated upper 95% bound = 64.5 years

Standard Error = 14

Corr(Age and Pred Age) = 0.727

---

**U2.38.175**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Femur greater trochanter roughening (left): 0  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1100

Random GLM Analysis

Estimated age at death = 47.1 years  
Estimated lower 95% bound = 23.8 years  
Estimated upper 95% bound = 72.9 years

Standard Error = 11.9  
Corr(Age and Pred Age) = 0.812

---

### U2.38.135

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### U2.38.133



---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Femur greater trochanter roughening (left): 1

Femoral trochanteric fossa exostoses (left): 0

Sample size = 1110

Random GLM Analysis

Estimated age at death = 41.6 years

Estimated lower 95% bound = 17.3 years

Estimated upper 95% bound = 66.1 years

Standard Error = 12.4

Corr(Age and Pred Age) = 0.793

---

**U2.38.95**

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femur greater trochanter roughening (left): 1

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 44.5 years

Estimated lower 95% bound = 17.7 years

Estimated upper 95% bound = 72.9 years

Standard Error = 13

Corr(Age and Pred Age) = 0.774

---

**U2.38.84**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 1

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 44.5 years

Estimated lower 95% bound = 17.7 years

Estimated upper 95% bound = 72.9 years

Standard Error = 13

Corr(Age and Pred Age) = 0.774

---

**U2.38.79**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femur greater trochanter roughening (left): 0  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 36.7 years  
Estimated lower 95% bound = 11.7 years  
Estimated upper 95% bound = 61.1 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

## U2.38.70

---

TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 44.5 years

Estimated lower 95% bound = 17.7 years  
Estimated upper 95% bound = 72.9 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

### U2.38.59

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 66.6 years  
Estimated lower 95% bound = 37.6 years  
Estimated upper 95% bound = 96.5 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### U2.38.45

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral head surface extra bone (left): 0  
Femoral trochanteric fossa exostoses (left): 1  
Femoral trochanteric medial surface exostoses (left): 1

Sample size = 1518

Random GLM Analysis

Estimated age at death = 70.9 years  
Estimated lower 95% bound = 45.4 years  
Estimated upper 95% bound = 97.4 years

Standard Error = 14.1  
Corr(Age and Pred Age) = 0.706

---

### U2.38.27

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0  
Femur greater trochanter roughening (left): 0  
Femoral trochanteric fossa exostoses (left): 1  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1100

Random GLM Analysis

Estimated age at death = 42.4 years  
Estimated lower 95% bound = 19.8 years  
Estimated upper 95% bound = 66.7 years

Standard Error = 11.9  
Corr(Age and Pred Age) = 0.812

---

### **U2.38.10**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 0  
Femoral trochanteric fossa exostoses (left): 1  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis  
Estimated age at death = 50.4 years  
Estimated lower 95% bound = 23.1 years  
Estimated upper 95% bound = 80.2 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

### **U2.38.5**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years  
Estimated lower 95% bound = 37.6 years  
Estimated upper 95% bound = 96.5 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

## U2.38.9

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

**U2.38.15**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666  
-----

**U2.38.37**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 0

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0



Sample size = 1137

Random GLM Analysis

Estimated age at death = 36.7 years

Estimated lower 95% bound = 11.7 years

Estimated upper 95% bound = 61.1 years

Standard Error = 13

Corr(Age and Pred Age) = 0.774

---

**U2.38.39**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.44**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

## **U2.38.48**

---

TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### U2.38.53

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### U2.38.54

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

## **U2.38.58**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 1  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 58.3 years  
Estimated lower 95% bound = 31.1 years  
Estimated upper 95% bound = 86.4 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

## U2.38.60

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years

Estimated lower 95% bound = 37.6 years

Estimated upper 95% bound = 96.5 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

## U2.38.64

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral head surface extra bone (left): 0

Femur greater trochanter roughening (left): 0

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 1

Sample size = 1113

Random GLM Analysis

Estimated age at death = 50.7 years

Estimated lower 95% bound = 24.1 years

Estimated upper 95% bound = 80.4 years

Standard Error = 12.9

Corr(Age and Pred Age) = 0.774

---

**U2.38.66**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years

Estimated lower 95% bound = 37.6 years

Estimated upper 95% bound = 96.5 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.78**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

## U2.38.96

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.99**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femur greater trochanter roughening (left): 2  
Femoral trochanteric fossa exostoses (left): 1

Sample size = 1150

Random GLM Analysis  
Estimated age at death = 78 years  
Estimated lower 95% bound = 53.7 years  
Estimated upper 95% bound = 101.7 years

Standard Error = 14  
Corr(Age and Pred Age) = 0.727

---

### **U2.38.103**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score  
-----



Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1563

Random GLM Analysis

Estimated age at death = 39.5 years  
Estimated lower 95% bound = 10.6 years  
Estimated upper 95% bound = 68.1 years

Standard Error = 14.2  
Corr(Age and Pred Age) = 0.704

---

## U2.38.104

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral head surface extra bone (left): 0  
Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 1  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1113

Random GLM Analysis

Estimated age at death = 57.1 years  
Estimated lower 95% bound = 30.3 years  
Estimated upper 95% bound = 86.5 years

Standard Error = 12.9  
Corr(Age and Pred Age) = 0.774

---

## U2.38.106

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

## U2.38.111

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femur greater trochanter roughening (left): 2

Femoral trochanteric fossa exostoses (left): 1

Sample size = 1150

Random GLM Analysis

Estimated age at death = 78 years  
Estimated lower 95% bound = 53.7 years  
Estimated upper 95% bound = 101.7 years

Standard Error = 14  
Corr(Age and Pred Age) = 0.727

---

**U2.38.125**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years  
Estimated lower 95% bound = 37.6 years  
Estimated upper 95% bound = 96.5 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

**U2.38.131**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.132**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

-----  
Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0  
Femoral trochanteric fossa exostoses (left): 0

Sample size = 1499

Random GLM Analysis

Estimated age at death = 34.4 years  
Estimated lower 95% bound = 11.3 years  
Estimated upper 95% bound = 57.4 years

Standard Error = 13.6  
Corr(Age and Pred Age) = 0.73

---

**U2.38.152**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666  
-----

**U2.38.198**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.199**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Femur greater trochanter roughening (left): 0

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1100

Random GLM Analysis

Estimated age at death = 33.2 years

Estimated lower 95% bound = 12.7 years

Estimated upper 95% bound = 52.3 years

Standard Error = 11.9

Corr(Age and Pred Age) = 0.812

---

**U2.38.211**

-----

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.212**

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### U2.38.218

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 66.6 years  
Estimated lower 95% bound = 37.6 years  
Estimated upper 95% bound = 96.5 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### U2.38.239

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----



Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

## U2.38.241

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years  
Estimated lower 95% bound = 37.6 years  
Estimated upper 95% bound = 96.5 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

## U2.38.269

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Femoral trochanteric fossa exostoses (left): 1

Sample size = 1499

Random GLM Analysis

Estimated age at death = 69.2 years

Estimated lower 95% bound = 42.6 years

Estimated upper 95% bound = 96.1 years

Standard Error = 13.6

Corr(Age and Pred Age) = 0.73

---

## U2.38.271

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years

Estimated lower 95% bound = 37.6 years

Estimated upper 95% bound = 96.5 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.272**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years

Estimated lower 95% bound = 37.6 years

Estimated upper 95% bound = 96.5 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.274**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Femur greater trochanter roughening (left): 1

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1100

Random GLM Analysis

Estimated age at death = 52.4 years

Estimated lower 95% bound = 28.5 years

Estimated upper 95% bound = 79.2 years

Standard Error = 11.9

Corr(Age and Pred Age) = 0.812

---

## U2.38.276

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.277**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.279**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

## **U2.38.282**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

## U2.38.285

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

## U2.38.318

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral head surface extra bone (left): 0

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1518

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 10.7 years

Estimated upper 95% bound = 66.4 years

Standard Error = 14.1

Corr(Age and Pred Age) = 0.706

---

**U2.38.324**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.326**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8



Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

-----

Trait: score

-----

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

## **U2.38.327**

-----

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

-----

Trait: score

-----

Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years

Estimated lower 95% bound = 37.6 years

Estimated upper 95% bound = 96.5 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### U2.38.329

---

TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### U2.38.333

---

TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.224**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1  
Femoral head surface extra bone (left): 1

Sample size = 1540

Random GLM Analysis

Estimated age at death = 70.3 years  
Estimated lower 95% bound = 41 years  
Estimated upper 95% bound = 97.7 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.338**

-----

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years

Estimated lower 95% bound = 37.6 years

Estimated upper 95% bound = 96.5 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.341**

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.346**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0  
Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1100

Random GLM Analysis  
Estimated age at death = 38.5 years  
Estimated lower 95% bound = 16.6 years  
Estimated upper 95% bound = 61 years

Standard Error = 11.9  
Corr(Age and Pred Age) = 0.812

---

### **U2.38.347**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0  
Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 1  
Femoral trochanteric medial surface exostoses (left): 1

Sample size = 1100

Random GLM Analysis

Estimated age at death = 57.8 years  
Estimated lower 95% bound = 33.4 years  
Estimated upper 95% bound = 84.7 years

Standard Error = 11.9  
Corr(Age and Pred Age) = 0.812

---

### **U2.38.360**

---

TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 44.5 years

Estimated lower 95% bound = 17.7 years  
Estimated upper 95% bound = 72.9 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

### **U2.38.369-370**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0  
Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 1  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1100

Random GLM Analysis  
Estimated age at death = 47.8 years  
Estimated lower 95% bound = 24.3 years  
Estimated upper 95% bound = 73.7 years

Standard Error = 11.9  
Corr(Age and Pred Age) = 0.812

---

### **U2.38.379**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral head surface extra bone (left): 0

Femur greater trochanter roughening (left): 1

Femoral trochanteric fossa exostoses (left): 1

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1113

Random GLM Analysis

Estimated age at death = 57.1 years

Estimated lower 95% bound = 30.3 years

Estimated upper 95% bound = 86.5 years

Standard Error = 12.9

Corr(Age and Pred Age) = 0.774

---

## U2.38.380

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Femur greater trochanter roughening (left): 0

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1100

Random GLM Analysis



Estimated age at death = 33.2 years  
Estimated lower 95% bound = 12.7 years  
Estimated upper 95% bound = 52.3 years

Standard Error = 11.9  
Corr(Age and Pred Age) = 0.812

---

### **U2.38.382**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.387**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1506

Random GLM Analysis

Estimated age at death = 37.1 years  
Estimated lower 95% bound = 11.7 years  
Estimated upper 95% bound = 61.3 years

Standard Error = 13.2  
Corr(Age and Pred Age) = 0.749

---

### **U2.38.390**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

**U2.38.403**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1506

Random GLM Analysis

Estimated age at death = 37.1 years

Estimated lower 95% bound = 11.7 years

Estimated upper 95% bound = 61.3 years

Standard Error = 13.2

Corr(Age and Pred Age) = 0.749

---

**U2.38.409**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years

Estimated lower 95% bound = 37.6 years

Estimated upper 95% bound = 96.5 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.416**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.428**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

## **U2.38.435**

---

TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 1  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 66.6 years  
Estimated lower 95% bound = 37.6 years  
Estimated upper 95% bound = 96.5 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.440**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.443**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.449**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

-----

Trait: score

-----

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.457**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666  
  
-----

## **U2.38.460**

-----

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis



Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.466**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----

Femoral trochanteric fossa exostoses (left): 1  
Femoral trochanteric medial surface exostoses (left): 1

Sample size = 1563

Random GLM Analysis  
Estimated age at death = 72.5 years  
Estimated lower 95% bound = 46.4 years  
Estimated upper 95% bound = 98.3 years

Standard Error = 14.2  
Corr(Age and Pred Age) = 0.704

---

### **U2.38.467**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years  
Estimated lower 95% bound = 37.6 years  
Estimated upper 95% bound = 96.5 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

## **U2.38.468**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years  
Estimated lower 95% bound = 37.6 years  
Estimated upper 95% bound = 96.5 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### U2.38.473

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666  
  
-----

### U2.38.479

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

**U2.38.488**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 44.5 years  
Estimated lower 95% bound = 17.7 years  
Estimated upper 95% bound = 72.9 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

**U2.38.505**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

-----

Trait: score

-----

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

## **U2.38.506**

-----

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

-----

Trait: score

-----

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.508**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.526**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### U2.38.531

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 1  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 58.3 years  
Estimated lower 95% bound = 31.1 years  
Estimated upper 95% bound = 86.4 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

### U2.38.532

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femur greater trochanter roughening (left): 1

Femoral trochanteric fossa exostoses (left): 1

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 58.3 years

Estimated lower 95% bound = 31.1 years

Estimated upper 95% bound = 86.4 years

Standard Error = 13

Corr(Age and Pred Age) = 0.774

---

**U2.38.538**

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540



Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

**U2.38.539**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

**U2.38.543**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1563

Random GLM Analysis

Estimated age at death = 39.5 years

Estimated lower 95% bound = 10.6 years

Estimated upper 95% bound = 68.1 years

Standard Error = 14.2

Corr(Age and Pred Age) = 0.704

---

## U2.38.545

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.546**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years

Estimated lower 95% bound = 37.6 years

Estimated upper 95% bound = 96.5 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.547**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0  
Femur greater trochanter roughening (left): 0  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1100

#### Random GLM Analysis

Estimated age at death = 33.2 years  
Estimated lower 95% bound = 12.7 years  
Estimated upper 95% bound = 52.3 years

Standard Error = 11.9  
Corr(Age and Pred Age) = 0.812

---

### **U2.38.551**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0  
Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 1  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1100

#### Random GLM Analysis

Estimated age at death = 47.8 years  
Estimated lower 95% bound = 24.3 years  
Estimated upper 95% bound = 73.7 years

Standard Error = 11.9  
Corr(Age and Pred Age) = 0.812

---

**U2.38.574**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femur greater trochanter roughening (left): 1

Femoral trochanteric fossa exostoses (left): 1

Sample size = 1150

Random GLM Analysis

Estimated age at death = 70.5 years

Estimated lower 95% bound = 43.6 years

Estimated upper 95% bound = 95.8 years

Standard Error = 14

Corr(Age and Pred Age) = 0.727  
-----

**U2.38.581**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 2

Sample size = 1540

Random GLM Analysis

Estimated age at death = 44.5 years

Estimated lower 95% bound = 29.1 years

Estimated upper 95% bound = 71.2 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.594**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 0

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 36.7 years

Estimated lower 95% bound = 11.7 years

Estimated upper 95% bound = 61.1 years

Standard Error = 13

Corr(Age and Pred Age) = 0.774

---

**U2.38.594**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femur greater trochanter roughening (left): 0  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 36.7 years  
Estimated lower 95% bound = 11.7 years  
Estimated upper 95% bound = 61.1 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

## U2.38.598

---

TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femur greater trochanter roughening (left): 1  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1146

Random GLM Analysis

Estimated age at death = 52.1 years

Estimated lower 95% bound = 26.4 years  
Estimated upper 95% bound = 83.9 years

Standard Error = 14  
Corr(Age and Pred Age) = 0.732

---

### **U2.38.602**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.608**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----



Trait: score

-----  
Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 44.5 years  
Estimated lower 95% bound = 17.7 years  
Estimated upper 95% bound = 72.9 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

## U2.38.614

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years  
Estimated lower 95% bound = 37.6 years  
Estimated upper 95% bound = 96.5 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

**U2.38.616**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years

Estimated lower 95% bound = 37.6 years

Estimated upper 95% bound = 96.5 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666  
-----

**U2.38.617**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.619**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years

Estimated lower 95% bound = 37.6 years

Estimated upper 95% bound = 96.5 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.638**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

-----

Trait: score

-----

Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years

Estimated lower 95% bound = 37.6 years

Estimated upper 95% bound = 96.5 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

## **U2.38.642**

-----

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

-----

Trait: score

-----

Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years

Estimated lower 95% bound = 37.6 years

Estimated upper 95% bound = 96.5 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.670**

---

TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.676**

---

TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.680**

-----

TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

-----

Trait: score

-----

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.702**

-----

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666

---

**U2.38.726**

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 1

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years

Estimated lower 95% bound = 37.6 years  
Estimated upper 95% bound = 96.5 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.737**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis  
Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.739**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----



Trait: score

-----  
Femoral trochanteric fossa exostoses (left): 1  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1563\

Random GLM Analysis

Estimated age at death = 54.8 years  
Estimated lower 95% bound = 25 years  
Estimated upper 95% bound = 85.7 years

Standard Error = 14.2  
Corr(Age and Pred Age) = 0.704

---

## **U2.38.740**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

-----

Trait: score

-----  
Femur greater trochant\er roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 44.5 years  
Estimated lower 95% bound = 17.7 years  
Estimated upper 95% bound = 72.9 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

**U2.38.753**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years

Estimated lower 95% bound = 9.5 years

Estimated upper 95% bound = 68.4 years

Standard Error = 14.9

Corr(Age and Pred Age) = 0.666  
-----

**U1.38.11**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 0

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 36.7 years

Estimated lower 95% bound = 11.7 years

Estimated upper 95% bound = 61.1 years

Standard Error = 13

Corr(Age and Pred Age) = 0.774

---

**U1.38.12**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 1

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 44.5 years

Estimated lower 95% bound = 17.7 years

Estimated upper 95% bound = 72.9 years

Standard Error = 13

Corr(Age and Pred Age) = 0.774

---

**U2.38.34**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1563

Random GLM Analysis

Estimated age at death = 39.5 years  
Estimated lower 95% bound = 10.6 years  
Estimated upper 95% bound = 68.1 years

Standard Error = 14.2  
Corr(Age and Pred Age) = 0.704

---

### **U2.38.697**

TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 39.1 years  
Estimated lower 95% bound = 9.5 years  
Estimated upper 95% bound = 68.4 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U2.38.705**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 2  
Femoral trochanteric fossa exostoses (left): 1  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis  
Estimated age at death = 64.5 years  
Estimated lower 95% bound = 37.3 years  
Estimated upper 95% bound = 90.9 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

### **U2.38.302**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1  
Femoral head surface extra bone (left): 0

Sample size = 1540

Random GLM Analysis

Estimated age at death = 66.6 years  
Estimated lower 95% bound = 37.6 years  
Estimated upper 95% bound = 96.5 years

Standard Error = 14.9  
Corr(Age and Pred Age) = 0.666

---

### **U1.38.39**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1  
Femoral head surface extra bone (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1506

Random GLM Analysis

Estimated age at death = 55.9 years  
Estimated lower 95% bound = 30 years  
Estimated upper 95% bound = 84.6 years

Standard Error = 13.2  
Corr(Age and Pred Age) = 0.749

---

### U1.38.51

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0

Femoral head surface extra bone (left): 0

Femur greater trochanter roughening (left): 2

Femoral trochanteric fossa exostoses (left): 1

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1100

Random GLM Analysis

Estimated age at death = 54 years

Estimated lower 95% bound = 29.9 years

Estimated upper 95% bound = 80.8 years

Standard Error = 11.9

Corr(Age and Pred Age) = 0.812  
-----

### U1.38.54

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 0  
Femoral trochanteric fossa exostoses (left): 1  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

#### Random GLM Analysis

Estimated age at death = 50.4 years  
Estimated lower 95% bound = 23.1 years  
Estimated upper 95% bound = 80.2 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

### **U1.38.55**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 0  
Femoral head surface extra bone (left): 1  
Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 1

Sample size = 1100

#### Random GLM Analysis

Estimated age at death = 49.6 years  
Estimated lower 95% bound = 26 years  
Estimated upper 95% bound = 76 years

Standard Error = 11.9  
Corr(Age and Pred Age) = 0.812



---

**U1.38.56**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 2

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 50.8 years

Estimated lower 95% bound = 23.5 years

Estimated upper 95% bound = 80.6 years

Standard Error = 13

Corr(Age and Pred Age) = 0.774

---

**U1.38.77**

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 0

Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 36.7 years  
Estimated lower 95% bound = 11.7 years  
Estimated upper 95% bound = 61.1 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

### **U1.38.89**

-----  
TA3 Age Estimation

Program Version 0.8.0  
R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score  
-----

Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 1

Sample size = 1563

Random GLM Analysis

Estimated age at death = 57.2 years  
Estimated lower 95% bound = 28.6 years  
Estimated upper 95% bound = 86.7 years

Standard Error = 14.2  
Corr(Age and Pred Age) = 0.704

---

### **U1.38.105**

-----

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femur greater trochanter roughening (left): 0

Femoral trochanteric fossa exostoses (left): 1

Sample size = 1150

Random GLM Analysis

Estimated age at death = 57.5 years

Estimated lower 95% bound = 27.4 years

Estimated upper 95% bound = 88.8 years

Standard Error = 14

Corr(Age and Pred Age) = 0.727

---

**U1.38.108**

---

TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0

---

Trait: score

---

Femur greater trochanter roughening (left): 2

Femoral trochanteric fossa exostoses (left): 1

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 64.5 years  
Estimated lower 95% bound = 37.3 years  
Estimated upper 95% bound = 90.9 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

### U1.38.117

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral fovea margin lipping (left): 1  
Femur greater trochanter roughening (left): 2  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 1

Sample size = 1111

Random GLM Analysis  
Estimated age at death = 69.4 years  
Estimated lower 95% bound = 44.2 years  
Estimated upper 95% bound = 93.8 years

Standard Error = 11.9  
Corr(Age and Pred Age) = 0.813

---

### U1.38.121

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.

TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femoral fovea margin lipping (left): 1  
Femoral head surface extra bone (left): 0  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1485

Random GLM Analysis

Estimated age at death = 50.2 years  
Estimated lower 95% bound = 24.9 years  
Estimated upper 95% bound = 77.6 years

Standard Error = 12.7  
Corr(Age and Pred Age) = 0.77

---

### **U1.38.128**

---

TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femoral head surface extra bone (left): 0  
Femoral trochanteric fossa exostoses (left): 0

Sample size = 1534

Random GLM Analysis

Estimated age at death = 41 years  
Estimated lower 95% bound = 9.6 years  
Estimated upper 95% bound = 71.1 years

Standard Error = 15.7  
Corr(Age and Pred Age) = 0.607

---

### **U1.38.130**

---

TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

---

Femur greater trochanter roughening (left): 1  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis  
Estimated age at death = 44.5 years  
Estimated lower 95% bound = 17.7 years  
Estimated upper 95% bound = 72.9 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

### **U1.38.134**

---

TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0

---

Trait: score

-----  
Femur greater trochanter roughening (left): 0  
Femoral trochanteric fossa exostoses (left): 0  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 36.7 years  
Estimated lower 95% bound = 11.7 years  
Estimated upper 95% bound = 61.1 years

Standard Error = 13  
Corr(Age and Pred Age) = 0.774

---

**U1.38.189**

-----  
TA3 Age Estimation  
Program Version 0.8.0  
R Code Version 0.4.8  
Using binarized ordinal scores.  
TA3BUM Version 1.13.0  
TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 1  
Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1146

Random GLM Analysis

Estimated age at death = 52.1 years  
Estimated lower 95% bound = 26.4 years  
Estimated upper 95% bound = 83.9 years

Standard Error = 14  
Corr(Age and Pred Age) = 0.732

---

### U1.38.190

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femur greater trochanter roughening (left): 0

Femoral trochanteric fossa exostoses (left): 0

Femoral trochanteric medial surface exostoses (left): 0

Sample size = 1137

Random GLM Analysis

Estimated age at death = 36.7 years

Estimated lower 95% bound = 11.7 years

Estimated upper 95% bound = 61.1 years

Standard Error = 13

Corr(Age and Pred Age) = 0.774

---

### U1.38.218

-----  
TA3 Age Estimation

Program Version 0.8.0

R Code Version 0.4.8

Using binarized ordinal scores.

TA3BUM Version 1.13.0

TA3OUM Version 1.13.0  
-----

Trait: score

-----  
Femoral head surface extra bone (left): 0

Femoral trochanteric fossa exostoses (left): 1

Femoral trochanteric medial surface exostoses (left): 0



Sample size = 1518

Random GLM Analysis

Estimated age at death = 53.8 years

Estimated lower 95% bound = 24.8 years

Estimated upper 95% bound = 84.6 years

Standard Error = 14.1

Corr(Age and Pred Age) = 0.706

---