

Supplementary Material

10.1302/0301-620X.104B4.BJJ-2021-1326.R2

Table i. Value assignments to variables.

Value assignment	0	1	2	3
Postoperative ROM	< 120°	≥ 120°		
Sex	Male	Female		
Age, yrs	< 18	18 to 54	≥ 55	
BMI*, kg/m ²	< 18.5	18.5 to 23.9	24 to 27.9	≥ 28
Tobacco use	No	Yes		
Alcohol use	No	Yes		
Dominant limb	No	Yes		
Initial injury	Simple	Complex		
Initial treatment	Conservative	Operative		
Duration of stiffness, mths	6 to 10	11 to 20	> 20	
Previous arthrolysis procedures, n	0	1	≥ 2	
Preoperative ROM, of	< 30	30 to 59	60 to 89	≥ 90
HO [‡]	None and I	II	III	
Pain [§]	None	Mild	Moderate and	
			severe	
Instability	Stable	Moderate	Severe	
Ulnar neuropathy [¶]	None	1	II	Ш
OA of the Elbow**	None	1	II	Ш

^{*}Classified according to the Chinese BMI criteria of the Working Group on Obesity in China. †Classified according to Mansat classification. Mansat classified the severity of elbow stiffness by ROM: > 90°, mild; 60 to 90°, moderate; 30 to 60°, severe; < 30°, extremely

‡Classified according to Hastings and Graham classification: I, no functional limitation; IIA, limited flexo-extension; IIB, limited prono-supination; IIC, IIA combined with IIB; III, ankylosis.

§Classified according to VAS for pain: none (0); mild (1 to 3); moderate (4 to 6); severe (7 to 10).

¶Classified according to Dellon classification, which included sensory (paresthesia, vibratory perception, and 2-point discrimination) and motor symptoms (muscle weakness and atrophy).

**Classified according to Broberg and Morrey classification (grade 0, normal joint; grade 1, slight joint-space narrowing with minimum osteophyte formation; grade 2, moderate joint-space narrowing with moderate osteophyte formation; and grade 3, severe degenerative change with gross destruction of the joint).

HO, heterotopic ossification; OA; osteoarthritis; ROM, range of motion.

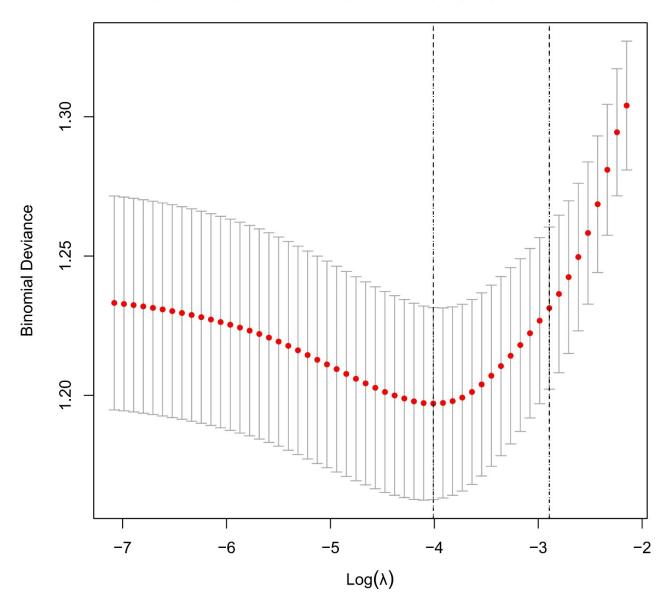


Fig. a. Demographic and clinical feature selection using the LASSO regression model. Optimal parameter (λ) selection in the LASSO model using five-fold cross-validation. The partial likelihood deviance (binomial deviance) curve was plotted versus log (λ). Each λ value in the figure corresponds to an evaluation value (red dot) and its 95% confidence interval (bar). Dotted vertical lines were drawn at the optimal values using the minimum criterion (left) and the 1-standard error criterion (right).

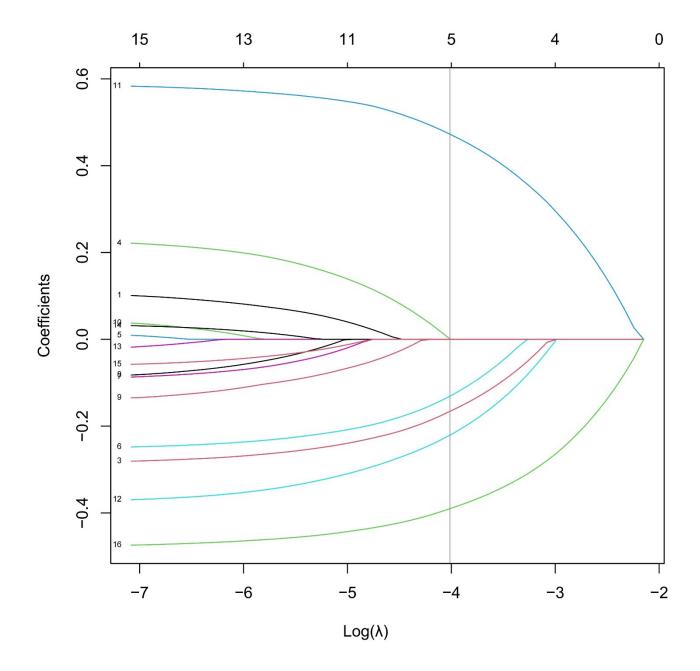


Fig. b. LASSO coefficient profiles of the 16 features. A coefficient profile plot was produced against the log (λ) sequence. A vertical line was drawn at the λ value selected using five-fold cross-validation, where optimal λ (the minimum criterion) resulted in five features with non-zero coefficients.