Supplementary Table 1. Binary logistic regression for the occurrence of POD using log_2-transformed SAA

Independent variables	Univariate		Multivariable	
	OR (95% CI)	P	OR (95% CI)	P
SAA (preoperative)	1.606 (1.461–1.766)	< 0.001	1.329 (1.171–1.509)	< 0.001
Age (yr)	1.131 (1.102–1.161)	< 0.001	1.080 (1.042–1.120)	< 0.001
Sex*				
M	1 (reference)			
F	0.995 (0.660–1.498)	0.980		
Height (cm)	0.974 (0.952–0.996)	0.023	0.990 (0.963–1.019)	0.493
BMI (kg/m^2)	0.921 (0.879–0.964)	< 0.001	0.992 (0.936–1.052)	0.791
ASA PS		< 0.001		0.287
I	1 (reference)		1 (reference)	
II	3.397 (0.452–25.556)	0.235	0.893 (0.107–7.416)	0.916
III	17.234 (2.329–127.514)	0.005	1.232 (0.141–10.729)	0.850
IV	18.824 (2.182–162.393)	0.008	0.423 (0.036–5.000)	0.495
Underlying disease				

Hypertension	1.954 (1.254–3.045)	0.003	1.211 (0.677–2.165)	0.520
Diabetes mellitus	2.118 (1.401–3.202)	< 0.001	1.564 (0.893–2.737)	0.118
Chronic kidney disease	3.116 (1.927–5.040)	< 0.001	1.068 (0.562–2.027)	0.841
Chronic liver disease	1.962 (0.888–4.333)	0.095	0.995 (0.325–3.047)	0.993
Chronic pulmonary disease	3.696 (2.248–6.078)	< 0.001	1.789 (0.937–3.414)	0.078
History of stroke*	1.641 (0.685–3.392)	0.267		
Hemoglobin (g/dL, preoperative)	0.729 (0.657–0.808)	< 0.001	1.022 (0.974–1.071)	0.375
Albumin (g/dL, preoperative)	0.213 (0.149–0.304)	< 0.001	0.509 (0.288–0.897)	0.020
Type of surgery		< 0.001		0.240
IM nailing	1 (reference)		1 (reference)	
CRIF	0.333 (0.145–0.767)	0.010	0.366 (0.132–1.011)	0.052
BHA	1.059 (0.623–1.800)	0.833	1.230 (0.647–2.339)	0.527
THA	0.104 (0.060–0.181)	< 0.001	0.890 (0.373–2.122)	0.792
I&D	0.413 (0.112–1.523)	0.184	0.327 (0.051–2.090)	0.238
Others	0.000 (0.000–N/A)	0.999	0.000 (0.000–N/A)	0.999
Type of anesthesia				

Neuraxial	1 (reference)		1 (reference)	
General	2.318 (1.469–3.658)	< 0.001	1.696 (0.914–3.145)	0.094
Anesthesia time	0.992 (0.987–0.997)	0.003	1.000 (0.994–1.007)	0.998
Estimated blood loss	0.999 (0.998–1.000)	0.014	1.000 (0.999–1.001)	0.941
RBCs (units, during surgery)	1.196 (0.984–1.454)	0.073	0.941 (0.652–1.357)	0.744
ICU admittance	3.479 (1.893–6.394)	< 0.001	1.289 (0.531–3.124)	0.575

OR: odds ratio, CI: confidence interval, POD: postoperative delirium, SAA: serum amyloid A, BMI: body mass index, ASA PS: American Society of Anesthesiologists physical status, IM: intramedullary, CRIF: closed reduction and internal fixation, BHA: bipolar hemiarthroplasty, THA: total hip arthroplasty, I&D: incision and drainage, RBC: red blood cell, ICU: intensive care unit, N/A: not applicable. *P > 0.2 in univariate analysis was excluded from the multivariable regression model.