**Supplementary file 1.**Risk classification and unpredictable intraprocedural risk factors for PEP (multivariate logistic regression).

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| --- | --- | --- | --- | --- |
| Cohort | Factor | OR | 95% CI | *P* value |
| All | Risk classification | 4.17 | 2.76-6.30 | < 0.01 |
| (n = 2017) a | Precut sphincterotomy (n = 52) | 1.26 | 0.54-2.96 | 0.59 |
|  | Inadvertent pancreatic duct cannulation (n = 349) | 0.83 | 0.49-1.42 | 0.50 |
| Development | Risk classification | 5.97 | 3.21-11.1 | < 0.01 |
| (n = 1012) a | Precut sphincterotomy (n = 26) | 0.33 | 0.04-2.57 | 0.29 |
|  | Inadvertent pancreatic duct cannulation (n = 193) | 0.63 | 0.30-1.35 | 0.23 |
| Validation | Risk classification | 2.97 | 1.71-5.16 | < 0.01 |
| (n = 1005) a | Precut sphincterotomy (n = 26) | 2.57 | 0.93-7.08 | 0.07 |
|  | Inadvertent pancreatic duct cannulation (n = 156) | 1.05 | 0.49-2.27 | 0.90 |

PEP, post-endoscopic retrograde cholangiopancreatography pancreatitis; OR, odds ratio; CI, confidence interval.

a Patients with missing data for variables selected in the risk score model were removed.