**Supplemental Table 1**: Bile duct injury scoring system used in assessment of degree of injury.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bile duct wall component | Grade 0 | Grade 1 | Grade 2 | Grade 3 |
| Biliary epithelium | No loss | ≤ 50% loss | > 50% loss | n.a. |
| Mural stroma | No injury | ≤ 25% necrotic | 25-50% necrotic | > 50% necrotic |
| Peribiliary vascular plexus | No injury | ≤ 50% of vessels with changes | > 50% of vessels with changes | Grade 2 + arteriolonecrosis |
| Thrombosis | Absent | Present | n.a. | n.a. |
| Intramural bleeding | None | < 50% of duct wall | > 50% of duct wall | n.a. |
| Periluminal PBG | No injury | < 50% loss of cells | > 50% loss of cells | n.a. |
| Deep PBG | No injury | < 50% loss of cells | > 50% loss of cells | n.a. |
| Inflammation | None | At least 10 leukocytes / HPF | At least 50 leukocytes / HPF | n.a. |

\* Modified from Hansen et al. (28)

PBG, peribiliary gland. HPF, high powered field.

n.a., not applicable