Supplemental table 1A: Baseline characteristics of patients with missing serum amylase on postoperative day 1

|                          | Missing serum amylase  | Available serum amylase | p-value |
|--------------------------|------------------------|-------------------------|---------|
|                          | N = 52                 | N = 385                 |         |
| Age                      | 68.0 (58.5 - 72.9)     | 67.7 (59.0 - 73.0)      | 0.899   |
| Male sex                 | 27 (52%)               | 217 (56%)               | 0.504   |
| BMI                      | 24.2 (22.0 - 25.9)     | 24.5 (22.4 - 27.1)      | 0.367   |
| ASA status 3-4           | 16 (31%)               | 103 (27%)               | 0.564   |
| Diabetes Mellitus        | 16 (31%)               | 97 (25%)                | 0.389   |
| Neoadjuvant therapy      | 3 (5.8%)               | 44 (11%)                | 0.216   |
| Neoadjuvant therapy type |                       |                         | 0.278   |
| No                       | 49 (94%)               | 341 (89%)               |         |
| Chemoradiotherapy        | 1 (1.9%)               | 32 (8.3%)               |         |
| Chemotherapy             | 2 (3.8%)               | 11 (2.9%)               |         |
| Radiotherapy             | 0 (0%)                 | 1 (0.3%)                |         |
| High risk pathology      | 28 (54%)               | 215 (56%)               | 0.770   |
| Malignant pathology      | 42 (81%)               | 291 (76%)               | 0.427   |
| Preoperative biliary     | 30 (61%)               | 237 (63%)               | 0.890   |
| drainage                 |                        |                         |         |
| Pancreatic duct diameter | 3.0 (2.0 - 5.0)        | 3.0 (2.0 - 6.0)         | 0.325   |
| Robot-assisted procedure | 16 (31%)               | 84 (22%)                | 0.149   |
| Soft pancreatic texture  | 20 (53%)               | 130 (45%)               | 0.506   |
Supplemental table 1B: Baseline characteristics of patients with missing drain fluid amylase on postoperative day 2

|                          | Missing drain fluid amylase N = 99 | Available drain fluid amylase N = 338 | p-value |
|--------------------------|------------------------------------|---------------------------------------|---------|
| Age                      | 68.4 (60.0 - 73.0)                 | 67.7 (58.4 - 73.0)                    | 0.231   |
| Male sex                 | 53 (54%)                           | 191 (57%)                             | 0.600   |
| BMI                      | 24.6 (22.2 - 28.2)                 | 24.4 (22.4 - 26.7)                    | 0.292   |
| ASA status 3-4           | 30 (30%)                           | 89 (27%)                              | 0.464   |
| Diabetes Mellitus        | 26 (26%)                           | 87 (26%)                              | 0.917   |
| Neoadjuvant therapy      | 12 (12%)                           | 35 (10%)                              | 0.618   |
| Neoadjuvant therapy type |                                    |                                       | 0.313   |
| No                       | 87 (88%)                           | 303 (90%)                             |         |
| Chemoradiotherapy        | 7 (7.1%)                           | 26 (7.7%)                             |         |
| Chemotherapy             | 4 (4.0%)                           | 9 (2.7%)                              |         |
| Radiotherapy             | 1 (1.0%)                           | 0 (0%)                                |         |
| High risk pathology      | 53 (54%)                           | 190 (56%)                             | 0.616   |
| Malignant pathology      | 76 (77%)                           | 257 (76%)                             | 0.917   |
| Preoperative biliary drainage | 64 (67%)                     | 203 (61%)                             | 0.341   |
| Pancreatic duct diameter | 3.0 (2.0 - 5.0)                    | 3.0 (2.0 - 6.0)                       | 0.692   |
| Robot-assisted procedure | 22 (22%)                           | 78 (23%)                              | 0.859   |
| Soft pancreatic texture  | 33 (45%)                           | 117 (48%)                             | 0.592   |