**Supplement 1: Definitions and codes**

Code list for medications

|  |  |
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| **Variables** | YJ code |
| CDI treatment | first 7 digits:  6419002 (oral metronidazole)  6419401 (intravenous metronidazole)  6113001 (vancomycin) |
| Injectable antibiotics | first 2 digits = 61 & 5th digits = 4 or 5  OR  first 5 digits = 62414 |
| Proton pump inhibitor | first 7 digits = 2329022, 2329403, 2329023, 2329028, 2329029, 2329030 |
| H2 blocker | first 4 digits = 2325 |
| Chemotherapy | first 2 digits = 42 |
|  |  |

Code list for procedures

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| **Variables** | Kubun code |
| Abdominal Surgery | K630 - K753 |
| Intensive care unit | A3011, A3012, A3013, A3014, A3017 |