**Supplementary Table 1. Response to Duplicate Order Alert by Test Type over time**

|  |  |  |  |
| --- | --- | --- | --- |
| Sample | Cancel | Proceed | %Cancel |
| All samples 2021 Q4\* | 1859 | 2470 | 43 |
| All samples 2022 Q1 | 2160 | 2547 | 46 |
| All sample 2022 Q2 | 2219 | 2730 | 45 |
| All samples 2022 Q3 | 2287 | 2971 | 43 |
| All samples 2022 Q4 | 2228 | 2933 | 43 |
| All samples 2023 Q1 | 2436 | 3118 | 44 |
| All samples 2023 Q2 | 2414 | 3204 | 43 |
| All samples 2023 Q3 | 2636 | 3141 | 46 |
| All samples 2023 Q4\* | 410 | 535 | 43 |
| All samples Total | 18649 | 23649 | 44% |
| Urine MCS 2021 Q4\* | 989 | 1015 | 49 |
| Urine MCS 2022 Q1 | 1246 | 1345 | 48 |
| Urine MCS 2022 Q2 | 1296 | 1449 | 47 |
| Urine MCS 2022 Q3 | 1270 | 1436 | 47 |
| Urine MCS 2022 Q4 | 1287 | 1445 | 47 |
| Urine MCS 2023 Q1 | 1343 | 1599 | 46 |
| Urine MCS 2023 Q2 | 1413 | 1659 | 46 |
| Urine MCS 2023 Q3 | 1466 | 1640 | 47 |
| Urine MCS 2023 Q4\* | 234 | 237 | 50 |
| Urine MCS Total | 10544 | 11825 | 47 |
| CMV IgG & IgM 2021 Q4\* | 41 | 81 | 34 |
| CMV IgG & IgM 2022 Q1 | 43 | 75 | 36 |
| CMV IgG & IgM 2022 Q2 | 45 | 88 | 34 |
| CMV IgG & IgM 2022 Q3 | 50 | 101 | 33 |
| CMV IgG & IgM 2022 Q4 | 48 | 99 | 33 |
| CMV IgG & IgM 2023 Q1 | 45 | 91 | 33 |
| CMV IgG & IgM 2023 Q2 | 38 | 92 | 29 |
| CMV IgG & IgM 2023 Q3 | 56 | 85 | 40 |
| CMV IgG & IgM 2023 Q4\* | 7 | 18 | 28 |
| CMV IgG & IgM Total | 373 | 730 | 34 |
| Faecal Pathogens PCR 2021 Q4\* | 307 | 230 | 57 |
| Faecal Pathogens PCR 2022 Q1 | 411 | 305 | 57 |
| Faecal Pathogens PCR 2022 Q2 | 420 | 325 | 56 |
| Faecal Pathogens PCR 2022 Q3 | 419 | 369 | 53 |
| Faecal Pathogens PCR 2022 Q4 | 371 | 357 | 51 |
| Faecal Pathogens PCR 2023 Q1 | 516 | 430 | 55 |
| Faecal Pathogens PCR 2023 Q2 | 489 | 406 | 55 |
| Faecal Pathogens PCR 2023 Q3 | 514 | 437 | 54 |
| Faecal Pathogens PCR 2023 Q4\* | 76 | 78 | 49 |
| Faecal Pathogens PCR Total | 3523 | 2937 | 55 |

\*Q4 2021 commences 15/10/2021 and Q4 2023 ends 15/10/2023

**Supplementary Table 2. Number of staff responding to Duplicate Order Alert per Job position for all tests**

|  |  |
| --- | --- |
| **Job Position** | **Number of staff** |
| Bed Manager | 4 |
| Doctor – Anaesthetist | 58 |
| Doctor – Cardiology | 22 |
| Doctor – CT Surgeon | 12 |
| Doctor – Emergency | 525 |
| Doctor – Intensivist | 185 |
| Doctor – Medical Officer | 1034 |
| Doctor – Neonatologist | 78 |
| Doctor – Paediatrician | 161 |
| Doctor – Surgeon | 298 |
| ED – Nurse | 643 |
| ED – Nurse Practitioner | 4 |
| Medical Student | 10 |
| Midwife | 40 |
| Nurse – ICU | 36 |
| Nurse – NICU | 13 |
| Nurse – RN | 235 |
| Nurse Practitioner | 8 |
| **Grand Total** | **3366** |

**Supplementary Table 3. Test cancellation rate in response to Duplicate Alert by Profession for all tests**

|  |  |  |  |
| --- | --- | --- | --- |
| **Job Position** | **Cancel** | **Proceed** | **% Cancelled** |
| **Consultant/Specialist Doctor** |
| Doctor – Anaesthetist | 293 | 442 | 40 |
| Doctor – Cardiology | 192 | 368 | 34 |
| Doctor – CT Surgeon | 99 | 105 | 49 |
| Doctor – Emergency | 3208 | 3550 | 47 |
| Doctor – Intensivist | 1243 | 1766 | 41 |
| Doctor – Neonatologist | 346 | 499 | 41 |
| Doctor – Paediatrician | 650 | 1135 | 36 |
| Doctor – Surgeon | 1580 | 2131 | 43 |
| **Grand Total** | **7611** | **9996** | **43** |
| **Medical Officer and Medical Students** |
| Doctor – Medical Officer | 9380 | 12379 | 43 |
| Medical Student | 5 | 6 | 45 |
| **Grand Total** | **9385** | **12385** | **43** |
| **Nurse** |
| Bed Manager | 7 | 5 | 58 |
| ED – Nure | 1230 | 877 | 58 |
| ED – Nurse Practitioner | 5 | 7 | 42 |
| Midwife | 37 | 32 | 54 |
| Nurse – ICU | 49 | 37 | 57 |
| Nurse – NICU | 10 | 11 | 48 |
| Nurse – RN | 289 | 270 | 52 |
| Nurse Practitioner | 26 | 29 | 47 |
| **Grand Total** | **1653** | **1268** | **57** |