**Supplementary Table 2: Processes required to deliver Test n Treat as research and as a service**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Process** | **Time Taken** | | **Type of delivery** | | **People involved** | | **Source** |
| **Minutes** | **Seconds** | **Research** | **Implementation** | **Staff** | **Patient** |
| Explain TnT | 1 |  |  |  |  |  | Estimate |
| Explain TnT | 2 |  |  |  |  |  | Estimate |
| Record contact information | 3 |  |  |  |  |  | Estimate |
| Look up name of participant, check phone number, DOB and ID | 1 |  |  |  |  |  | Estimate |
| Unlock tablet and retrieve questionnaire | 0 | 23 |  |  |  |  | Replicated n=10 |
| Complete the questionnaire | 4 | 42 |  |  |  |  | From tablet logs n=91 |
| Label collection kit and put spare labels in pathology bag (Females) | 0 | 50 |  |  |  |  | Replicated n=10 |
| Label collection kit and put spare labels in pathology bag (Males) | 0 | 32 |  |  |  |  | Replicated n=10 |
| Go to bathroom and take sample (male) | 3 |  |  |  |  |  | Estimate |
| Go to bathroom and take sample and put in buffer (female) | 4 |  |  |  |  |  | Estimate |
| Wash hands & return | 1 | 30 |  |  |  |  | Estimate |
| Record time on bag | 0 | 11 |  |  |  |  | Replicated n=10 |
| Take bag to lab area | 0 | 10 |  |  |  |  | Estimate |
| Staff member wears apron and gloves | 0 | 32 |  |  |  |  | Replicated |
| Get new cartridge, buffer\*, open sample bag | 0 | 20 |  |  |  |  | Replicated once |
| Label lab sheet, cartridge, buffer with sample ID. Record time on sample bag. | 0 | 35 |  |  |  |  | Replicated once |
| If urine: Add urine to buffer. Invert. | 1 | 0 |  |  |  |  | Estimate |
| If swab: Add swab to buffer. Invert. | 0 | 10 |  |  |  |  | Replicated once |
| Open cartridge. Transfer 1ml from buffer to cartridge. Replace buffer in store. | 0 | 55 |  |  |  |  | Replicated once |
| Remove one glove | 0 | 4 |  |  |  |  | Replicated n=20 |
| Select module and start test. Enter ID. Record time in buffer and module code. | 0 | 20 |  |  |  |  | Estimate |
| Open and place the cartridge in the module. | 0 | 10 |  |  |  |  | Estimate |
| Scan the barcode on the cartridge, and click “begin test” on computer | 0 | 5 |  |  |  |  | Estimate |
| Once the light above the module flashes, close the module door to start the test. | 0 | 3 |  |  |  |  | Estimate |
| Record the start time of the test (this is also recorded in the module) | 0 | 3 |  |  |  |  | Estimate |
| Clean surface | 0 | 10 |  |  |  |  | Estimate |
| Remove second glove | 0 | 4 |  |  |  |  | Replicated n=20 |
| Machine runs test | 90 | 0 |  |  |  |  | Cepheid |
| Read result, record on lab and results sheet | 0 | 45 |  |  |  |  | Estimate |
| Put on gloves. Remove cartridge from module and discard. | 0 | 30 |  |  |  |  | Estimate, glove time has been replicated |
| If the test failed, rerun steps from inversion of buffer tube. | 92 | 0 |  |  |  |  | Estimate |
| Send negative result via text message | 0 | 45 |  |  |  |  | Estimate |
| Pass positive result to health advisor to contact positive participants | 2 | 0 |  |  |  |  | Estimate |
| Setting up: taking machines to room | 0 | 20 |  |  |  |  | Estimate |
| Setting up: move tables, put down plastic, plug in and connect machines | 0 | 10 |  |  |  |  | Estimate |
| Set up clinical waste bins | 0 | 30 |  |  |  |  | Estimate |
| Taking down: Clean the modules and all surfaces | 1 | 0 |  |  |  |  | Estimate |
| Taking down: Turn off computer and unplug machines | 5 | 0 |  |  |  |  | Estimate |
| Taking down: pack up machines and take to exit | 20 | 0 |  |  |  |  | Estimate |

Footnote: Where an average time is reported, n refers to the number of times this activity was timed in order to calculate the average.