Table 1.0: Data analysis pre- and post-interventions

| Table 1.0                                                                  | Pre-intervention | Post-intervention 1 (6 months) | Post-intervention 2 (12 months) |
|----------------------------------------------------------------------------|------------------|-------------------------------|-------------------------------|
| Number of patients with a confirmed diagnosis of STEMI and receiving thrombolysis (n=) | 30               | 25                            | 23                            |
| Appropriate STEMI management as per ACC guidelines                          |                  |                               |                               |
| Mean door-to-needle time (minutes)                                         | 37.3 (15-105)    | 32.36 (10-90)                 | 30.96 (15-77)                 |
| Door-to-needle time in ≤ 30 minutes (% patients)                           | 43               | 64                            | 74                            |
| P value for Door-to-needle time in ≤ 30 minutes                             | <0.05            | <0.05                         | <0.05                         |
| Nursing and Doctor review times (minutes)                                   |                  |                               |                               |
| Mean waiting time from nursing triage to 1st doctor review                 | 13.5 (0-70)      | 5.89 (0-30)                   | 6.87 (0-35)                   |
| Mean waiting time from 1st doctor review to thrombolysis administration    | 23.2 (5-90)      | 25.25 (10-68)                 | 24 (10-76)                    |
| 1st doctor assessment in ≤ 5 minutes from arrival to CCU (% patients)      | 43               | 72                            | 70                            |
| Thrombolytic therapy administered in ≤ 20 minutes after 1st doctor assessment (% patients) | 43               | 52                            | 65                            |
| Secondary prevention of MI                                                 |                  |                               |                               |
| Mean number of cardiac medications prescribed (Clexane, Aspirin, Clopidogrel/Ticagrelor, Beta blocker, ACEi, Statin and Nitrate) | 5.04             | 4.25                          | 5.96                          |
| Mortality (% of patients)                                                  |                  |                               |                               |
| All-cause in-hospital mortality                                             | 17               | 8                             | 8.7                           |
Figure 1.0: Comparison of the door-to-needle and clinician assessment times in STEMI patients from the pre- and post- intervention groups.

![Figure 1.0: Comparison of the door-to-needle and clinician assessment times in STEMI patients from the pre- and post- intervention groups.](image)

**Assessment and Management of the STEMI Patient**

Figure 2.0: Run chart to demonstrate change in door-to-needle times between the PDSA 1 + 2 and 3 + 4 data sets. Median door-to-needle time for baseline data (35 minutes) included.

![Figure 2.0: Run chart to demonstrate change in door-to-needle times between the PDSA 1 + 2 and 3 + 4 data sets. Median door-to-needle time for baseline data (35 minutes) included.](image)