Table A: Catheter Related Bacteraemia Results Unit A. HDCRBSI rate and exit site infection rate are expressed per 1000 catheter days calculated over 12 months pre-intervention and 12 month during the intervention. Absolute number of infections, hospitalisations, days in hospital due to CRBSI and deaths are quoted, as well as days in hospital per 1000 catheter days

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Haemodialysis Unit A** | | | **Non-intervention unit** | | |
|  | 1 year Pre-intervention | 1 year Post-intervention | P value | 1 year Pre-intervention | 1 year Post-intervention | P value |
| Number of patients (n) | 67 | 76 |  | 71 | 74 |  |
| Catheter prevalence (%) | 14.1 | 13.4 | 0.961 | 23.9 | 24.9 | 0.957 |
| Total infections in one year (n) | 8 | 2 |  | 8 | 7 |  |
| Catheter-related bacteraemia rate (per 1000 catheter days) | 2.65 | 0.50 | 0.02 | 1.36 | 1.15 | 0.74 |
| Exit site infection rate (per 1000 catheter days) | 4.65 | 1.25 | 0.01 | 3.24 | 3.35 | 0.94 |
| **Outcomes** | | | **% Change** |  | | **% Change** |
| Death (n) | 1 | 0 | -100 | 0 | 0 | 0 |
| Number of catheters removed in one year (n) | 6 | 2 | -67 | 3 | 2 | -33 |
| Number of hospitalisations in one year (n) | 8 | 2 | -75 | 7 | 6 | -14 |
| Total days in hospital in one year (days) | 138 | 34 | -75 | 98 | 113 | +15 |
| Days in hospital per 1000 catheter days | 46 | 11 | -76 | 33 | 38 | +15 |

Table B: Pre-dialysis Blood Pressure Results Unit B

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Haemodialysis Unit B | | | Non-intervention Unit E | | |
|  | Pre-intervention | Post-intervention | P value | Pre-intervention | Post-intervention | P value |
| Mean pre-dialysis systolic blood pressure (SD) (mmHg) | 151.9 (±26.4) | 130.1 (±23.5) | <0.001 | 148.7 (± 25.2) | 145.5 (±23.6) | 0.43 |
| Mean pre-dialysis diastolic blood pressure (mmHg) | 82.1 (±17.4) | 73.4 (±15.4) | 0.003 | 77.6 (±17.5) | 77.2 (±13.6) | 0.9 |
| Percentage of patients achieving clinical standard of <140/90 mmHg | 37.5 | 67.2 | 0.001 | 42.3 | 43.7 | 1.0 |
| Hypotensive episodes | 5.2 (±1.4) | 5.3(±1.8) | 0.55 |

Table C: Dialysis Dose: Unit C

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Haemodialysis Unit C | | | Non-intervention Unit E | | |
|  | Pre-intervention | Post-intervention | P value | Pre-intervention | Post-intervention | P value |
| Number of patients (n) | 58 | 56 |  | 71 | 74 |  |
| Fistula/Graft prevalence (%) | 82.8 | 89.1 | 0.316 | 76.1 | 75.1 | 0.957 |
| Mean blood flow rate (SD) | 340 (45) | 337 (54) | >0.99 | 266 (29) | 283 (31) | 0.91 |
| Mean urea reduction ratio (SD) (%) | 70.4 (±8.3) | 74.5 (±5.5) | 0.002 | 68.7 (±8.5) | 69.6 (±7.4) | 0.47 |
| Percentage of patients achieving clinical standard of urea reduction ratio >65% | 75.8 | 91.4 | 0.04 | 69.0 | 69.0 | 0.58 |

Table D: Anaemia: Community PD Unit D

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Peritoneal Dialysis Unit D | | | Non-intervention Unit E | | |
|  | Pre-intervention | Post-intervention | P value | Pre-intervention | Post-intervention | P value |
| Mean haemoglobin (SD) (g/dl) | 10.6 (±1.4) | 11.2(±1.5) | 0.002 | 10.9 (±1.8) | 11.2 (±1.6) | 0.36 |
| Percentage of patients achieving haemoglobin between 10.5 – 12.5 g/dl | 45.5 | 62.7 | 0.01 | 57.7 | 53.5 | 0.74 |
| Mean (SD) dose of darbepoietin (µg/week) | 41.5 (±32.8) | 45.6 (±40.9) | 0.35 | 62.3 (±44.6) | 67.4(±48.5) | 0.51 |
| Percentage of patients with ferritin 200-800mcg/l | 74% | 75% | 0.561 | 59% | 68% | 0.16 |
| Percentage of patients with iron saturation>20% | 83% | 88% | 0.433 | 66% | 75% | 0.125 |
| Mean CRP (mg/l) | 34 | 35 | 0.175 | 38 | 37 | 0.094 |

Table E. Results of AHRQ Survey

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Intervention Units | | | Non-intervention unit | | |
|  | Pre-intervention (Year 0) | Post intervention (Year 1) | %change | Pre-intervention (Year 0) | Post intervention (Year 1) | %change |
| Teamwork across unit | 50% | 59% | +18 | 40% | 52% | +30 |
| Organisational Learning & Continous improvement | 74% | 85% | +15 | 73% | 68% | -7 |
| Feedback & Communication | 59% | 84% | +42 | 50% | 52% | +4 |
| Communication openness | 57% | 69% | +21 | 44% | 42% | -5 |
| Overall perception of safety | 57% | 74% | +30 | 43% | 39% | -9 |
| Frequency of Event Reporting | 58% | 91% | +57 | 85% | 70% | -18 |
| Staffing | 37% | 52% | +41 | 34% | 30% | -13 |
| Handoff & transition | 40% | 52% | +30 | 40% | 36% | -10 |
| Manager expectation & actions promoting safety | 71% | 77% | +8 | 69% | 50% | -28 |
| Management support for patient safety | 71% | 78% | +10 | 76% | 67% | -12 |
| Non-punitive response to error | 46% | 52% | +13 | 35% | 39% | +11 |