

Annex I: Characteristics of the PVCs in use in the study

| | PVC | Cathter Material | Integrated Extention Set? | Safety | Hospital |
|----------|---|-------------------------|----------------------------------|---------------|-------------------------------|
| A | Hospira Abbocath™ | Polyurethane | No | Yes | Hospitals I , II |
| B | BD Nexiva™ Closed IV Cathter System | BD Vialon-Polyurethane | Yes | Yes | Hospitals I,II,III (Period 1) |
| C | BD Saf-T-Intima™ | BD Vialon-Polyurethane | Yes | Yes | Hospital II |
| D | Smiths Medical DeltaVen® Closed System Catheter | Polyurethane | Yes | Yes | Hospital III (Period 2) |

Annex II: PVC failure among different hospitals

| <i>PVC failure</i> | Hospital I | | Hospital II | | Hospital III | | Total | |
|----------------------------------|-------------------|----------|--------------------|----------|---------------------|----------|-----------------|-----------------|
| <i>Period</i> | Period 1 | Period 2 | Period 1 | Period 2 | Period 1 | Period 2 | Period 1 | Period 2 |
| <i>Clinical failure</i> | 8.9% | 7.8% | 13.6% | 7.4% | 16.1% | 15.7% | 12.8% | 10.3% |
| <i>Mechanical failure</i> | 4.1% | 3.5% | 18.2% | 15.6% | 17.1% | 16.6% | 13.1% | 11.9% |

Annex III: Descriptive analysis of PVCs in the “hospital control”.

| | Hospital control | | Total |
|---|-------------------------|----------|--------------|
| | Period 1 | Period 2 | |
| Number of patients (N=) | 265 | 154 | 419 |
| Age (mean) | 68.9 | 69.1 | 69 |
| Gender (%Male) | 61% | 67% | 64% |
| Charlson score(mean) | 2.9 | 2.4 | 2.65 |
| <i>Rate of PVC failure</i> | 20% | 16% | 18% |
| Mean days of hospital stay(days) | 11.5 | 11.8 | 11.6 |
| Mean days of ward stay(days) | 11.7 | 11.9 | 11.8 |