Appendix IIb

**Surgical Procedures – an Australian experience**

**Prospective Audit of current use of Intraoperative Cell Salvage at the Royal Brisbane and Women’s Hospital (RBWH), Brisbane, Australia – May to October 2012**.

1. Procedures with most benefit from prospective observational study – RBWH:

|  |  |  |
| --- | --- | --- |
| **Surgical speciality** | **Type of Procedure** | **Autotransfused units per case on average** |
| **General Surgery** |  |  |
|  | Laparotomy +Liver laceration | 2 |
| **Gynaecology** |  |  |
|  | Uterine Myomectomy | 4 |
|  | Total abdominal hysterectomy (TAH) | 1 |
| **Obstetrics** |  |  |
|  | Lower section caesarean section (LSCS) for placenta percreta | 3 |
|  | LSCS for Placenta accreta | 1 |
| **Orthopaedics** |  |  |
|  | Multilevel (>3 level) posterior fusion | 1 |
| **Urology** |  |  |
|  | Radical Prostatectomy | 1.85 |
| **Vascular** |  |  |
|  | Abdominal aortic aneurism repair (AAA) elective | 1.79 |
|  | AAA ruptured | 2 |
|  | Re-implantation of renal artery | 4 |

1. Procedures with lower but still significant, potential benefit from prospective observational study – RBWH:

|  |  |  |
| --- | --- | --- |
| **Surgical speciality** | **Type of Procedure** | **Autotransfused units per case on average** |
| Orthopaedic |  |  |
|  | Total Hip replacement | 0.33 |
|  | Total knee replacement | 0.25 |
| Vascular  |  |  |
|  | Aorto-bifemoral | 0.56 |

1. Procedures that showed less cost-benefit from prospective observational – RBWH:

Generally significant blood loss could be expected from these procedures, however in the RBWH study it was found that these procedures did not present significant ICS cost- benefit.

|  |  |
| --- | --- |
| **Sub-speciality** | **Procedure type** |
| **General Surgery** | * Trauma laparotomy Exploration
 |
|   | * Splenectomy\*
 |
| **Gynaecology** | * Total abdominal hysterectomy and bilateral salpingo-oophorectomy and tumor debulking
 |
| **Neurosurgery** | * Craniotomy
 |
|   | * Craniotomy for pineal Tumour
 |
| **Obstetric surgery** | * Uncomplicated Caesarean section
 |
|  | * Caesarean section for placenta previa grade 2,3 or 4
 |
|   | * Caesarean section for HELLP syndrome
 |
| **Orthopaedic surgery** | * Multi-trauma: acetabulum, rib and clavicle fractures
 |
|  | * 1 to 2 level anterior spinal fusion
 |
|  | * 1 level spinal disc revision
 |
|  | * 1 or 2 level Interbody fusion
 |
|  | * 1 to 3 level laminectomy
 |
|  | * 1 to 3 level lateral fusion
 |
|  | * Open reduction internal fixation Acetabulum fracture
 |
| **Urology** | * Nephrectomy
 |

\* Set up ICS device and wash salvaged blood when there is blood loss of greater than 20% of estimated blood volume.