

The true cost of cell salvage

Components per transfusion	£ per item	Average price per average transfusion (2.7 units)
Device cost (depending on contract type)	£0.00 - £5000	£0.00 - £1.92*8
Consumable cost	£336.10	£227.73*4
Training Cost	£0.00	£0.00
Maintenance cost	£500.00 per year*2	£1.20*13
Cost of platelets	£209.30*3	£0.00
Cost of FFP's	£27.46*3	£9.15*14

Total cost of Hemosep per average transfusion = £240.00*9*15

Components per transfusion	£ per item	Average price per average transfusion
Device cost (depending on contract type)	£0.00 - £14,000*1	£0.00 - £5.38*7
Consumable cost	£62.00 - £95.00*2	£78.50*12
Training Cost	£1500.00*2	£2.88*13
Maintenance cost	£500.00 per year*2	£1.20*13
Cost of platelets	£209.30*3	£251.16 (1.2units*11*5*6)
Cost of FFP's	£27.46*3	£76.88 (3 units*11*5*6)

Total cost of cell salvage and components per average transfusion = £416.00*9

Post-operative bleeding occurs in around 50% of patients, of which 50% of this is caused by bleeding outside the surgical control. The Hemosep device retains the clotting residuals, which can reduce the post-operative bleeding cycle. This will also be an aid in cost savings. In total, based on 50% usage of 30,000 heart operations instead of the current cell salvage procedures, Hemosep could save the NHS £2,640,000 per year.

**Average NHS Saving
= £176.00**

The clinical benefit of utilising Hemosep is that it returns cells in all species in the majority of cases, ensuring only the patients' own blood components are re transfused, therefore reducing the risks associated with administering blood and their components.

- 1) When blood Turns Green NHS Finance 2010
- 2) NHS supply chain catalogue pricing & current commercial agreements
- 3) Catalyst-health -the-increasing-cost-of-blood-transfusions.NHSBT hospital. Blood price_list_2012_13.pdf
- 4) True cost of blood Advancis Surgical
- 5) Average usage of platelets used and FFP's also taken from discussions with Leading Heart units in the UK. Data On File
- 6) Blood Transfusion and the Anaesthetist Blood Compartment Therapy 2005
- 7) Figure based on the device performing two operations per day, 5 days per week
- 8) Figure based on the orbital shaker performing two operations per day, 5 days per week.
- 9) Average transfusion price is calculated using the average use per procedure; this does not represent any wastage amounts and is solely based on average transfusions *1
- 10) Please note: The Hemosep concentrator bag have a maximum quantity fill of 1 litre it is however recommended to fill the concentrator bag to 80% for efficient blood recycling procedures.
- 11) THE INCREASING COST OF BLOOD TRANSFUSIONS IN THE UK, 2001 Susan J Varney and Julian F Guest Catalyst Health Economics Consultants, Northwood, Middlesex, UK
- 12) Average mean cost of consumables
- 13) Average training / Maintenance cost divided between 520 procedures per year
- 14) Average usage of FFP's for hemosep device
- 15) The total price reflects the total price of FFP's.