



Transonic Flow-QC® Focus

A measurable improvement in Quality Care

Cost Benefit of Flow-based Graft Patency Assessment

Focus on Cardiac

- ✓ Quick
- ✓ Easy
- ✓ Safe
- ✓ Accurate
- ✓ Reproducible
- ✓ Reliable

More than 500,000 coronary artery bypass graft (CABG) surgeries are performed annually in the United States, at a cost of over \$10 billion. Hospitals vary widely in their costs for CABG surgery.¹ Based upon costs cited in the literature, we have elected to use \$15,000 for the mean cost of a CABG, OPCABG or MIDCABG procedure exclusive of professional fees (e.g. surgeon's fee) and noncomparable costs (e.g., salaried physician's compensation, indirect teaching cost and malpractice insurance).^{2,3,4,5} This cost estimate is conservative especially during the learning curve for off-pump surgery. The cost of the Flow-QC Key per procedure is calculated at its cost base of \$125.00 for a 4-hour time measurement period.

# CABG Procedures per Year	Flow-QC Cost @ \$125 per case	3% Reops due to early Graft Failure	Reoperation Cost @\$15,000	Hospital Cost Savings Year 1	Hospital Cost Savings Year 2	Hospital Cost Savings Year 3
50	\$ 6,250	1.5	\$ 22,500	\$ 16,250	\$ 32,500	\$ 48,750
100	\$ 12,500	3	\$ 45,000	\$ 32,500	\$ 65,000	\$ 97,500
200	\$ 25,000	6	\$ 90,000	\$ 65,000	\$ 130,000	\$ 195,000
300	\$ 37,500	9	\$ 135,000	\$ 97,500	\$ 195,000	\$ 292,000
500	\$ 62,500	15	\$ 225,000	\$ 162,500	\$ 325,000	\$ 487,500
750	\$ 93,750	22.5	\$ 337,500	\$ 243,750	\$ 487,500	\$ 731,250
1000	\$ 125,000	30	\$ 450,000	\$ 325,000	\$ 650,000	\$ 975,000
1500	\$ 187,500	45	\$ 675,000	\$ 487,500	\$ 975,000	\$ 1,462,500
2000	\$ 250,000	60	\$ 900,000	\$ 650,000	\$1,300,000	\$ 1,950,000

¹ Cowper, P.A., et al, Variability in Cost of Coronary Bypass Surgery in New York State: Potential for Cost Savings. *Am Heart J.* 2002;143:130-139.

² Boyd WD, et al, Off-pump Surgery Decreases Post-operative Complications and Resource Utilization in the Elderly. *Ann Thorac Surg.* 1999;68:1490-1493.

³ Eagle and Guyton et al., ACC/AHA Guidelines for CABG Surgery. *JACC.* 1999;34:1262-1347.

⁴ Arom, K.V. Cost-Effectiveness of Minimally Invasive Coronary Artery Bypass Surgery. *Ann Thorac Surg.* 1999;68:1562-1566.

⁵ Bull, D.A., et al., Coronary Artery Bypass Grafting with Cardiopulmonary Bypass Versus Off-Pump Cardiopulmonary Bypass Grafting Does Eliminating the Pump Reduce Morbidity and Cost. *Ann Thorac Surg.* 2001;71:170-175.