

Blood Utilization In Cardiac Surgery

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Background

- Variation in transfusion for CABG is still ongoing
- Increased emphasis on Patient Blood Management- PBM
- Focus on streamlining utilization
- Ensure better patient care and outcome
- Decrease waste, cost and exposure
- Variation in transfusion for CABG is still ongoing

Background cont



Methods

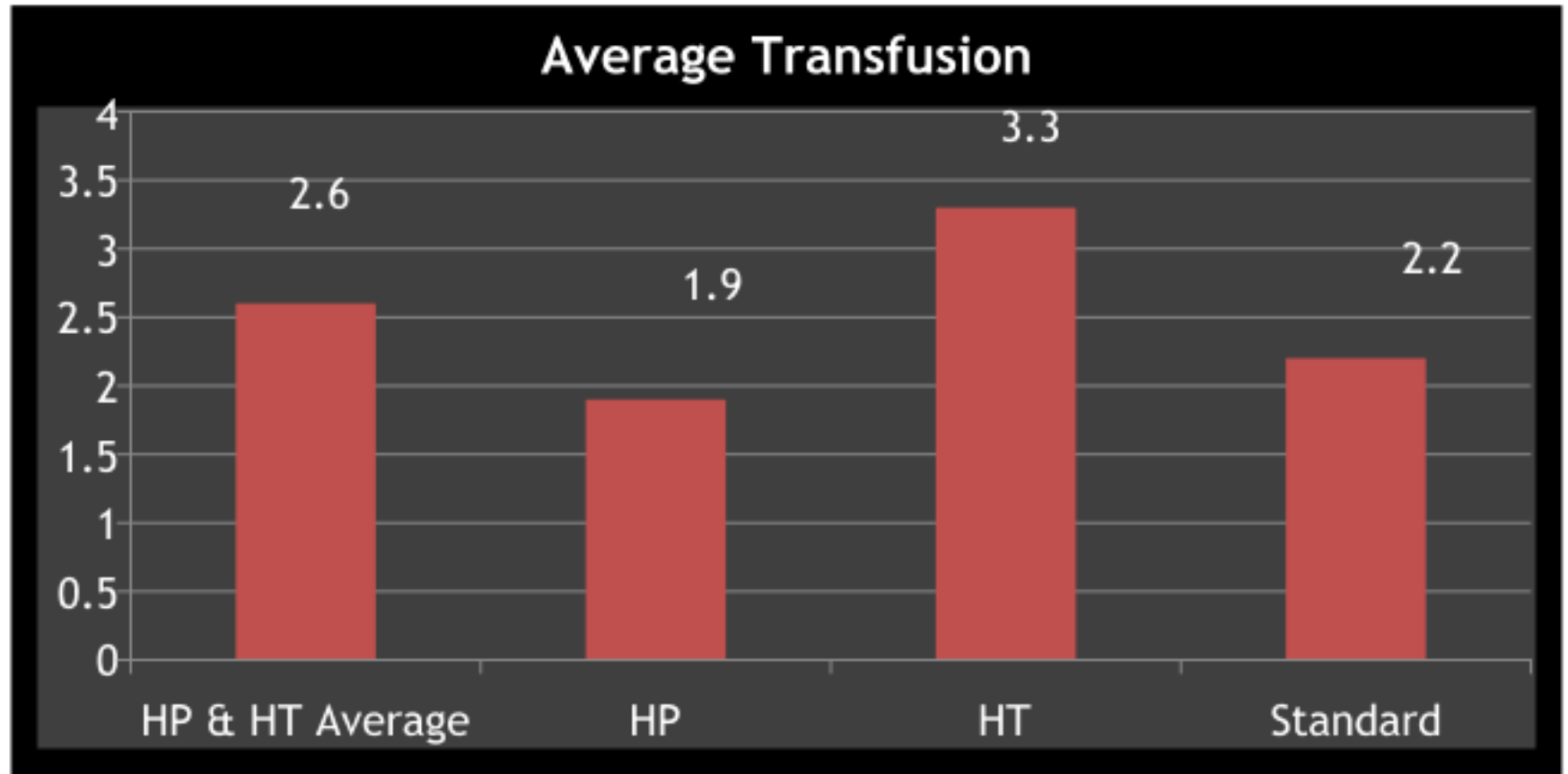
- Feb - Oct 2017 Observational prospective audit at two medical centres in the Western Cape
- 50 Consecutive patients from each institution: Coded HP & HT
- Undergoing scheduled, isolated, on pump CABG surgery
- All procedures making use of cell salvage

Data analysis

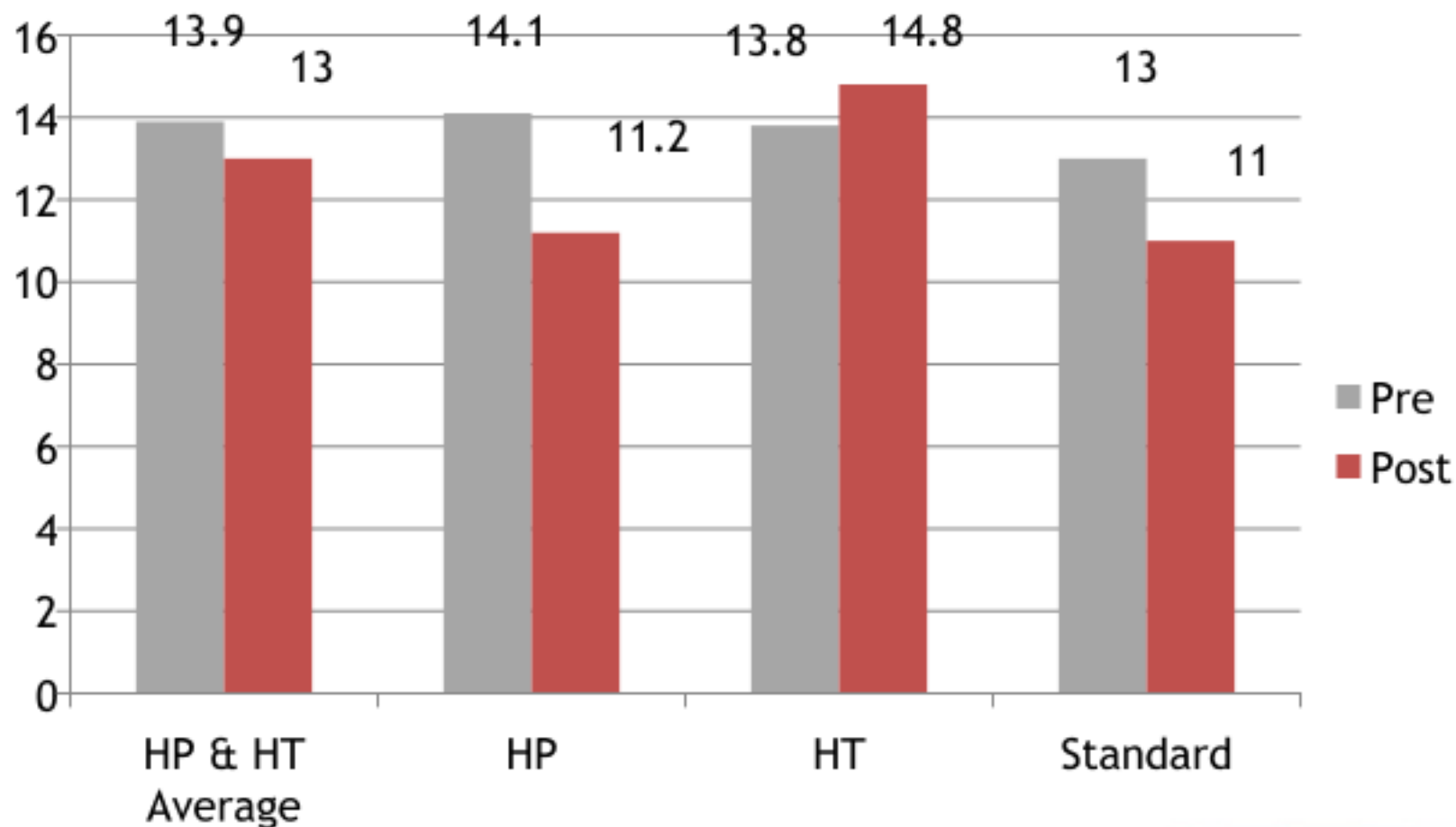
- **Comparison of blood use**
- **Analysed:**
 - Ø Transfusion rates
 - Ø Hb
 - Ø Age & Weight
 - Ø Gender
 - Ø Graft number



Transfusion rates

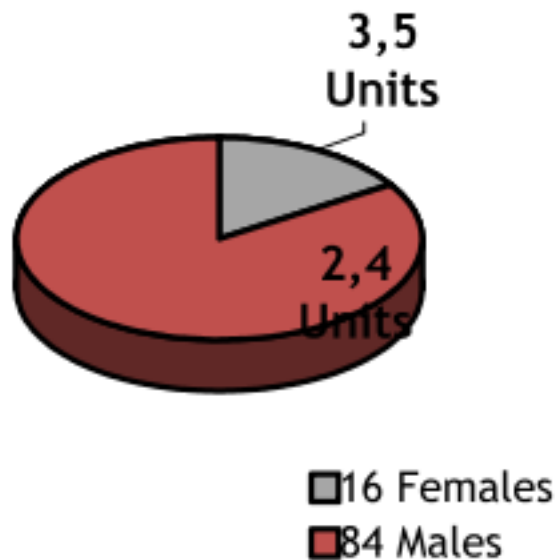


Haemoglobin concentration

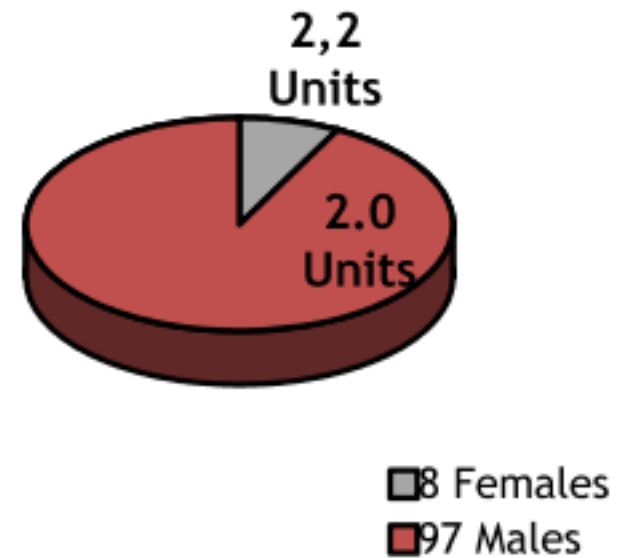


Units per gender

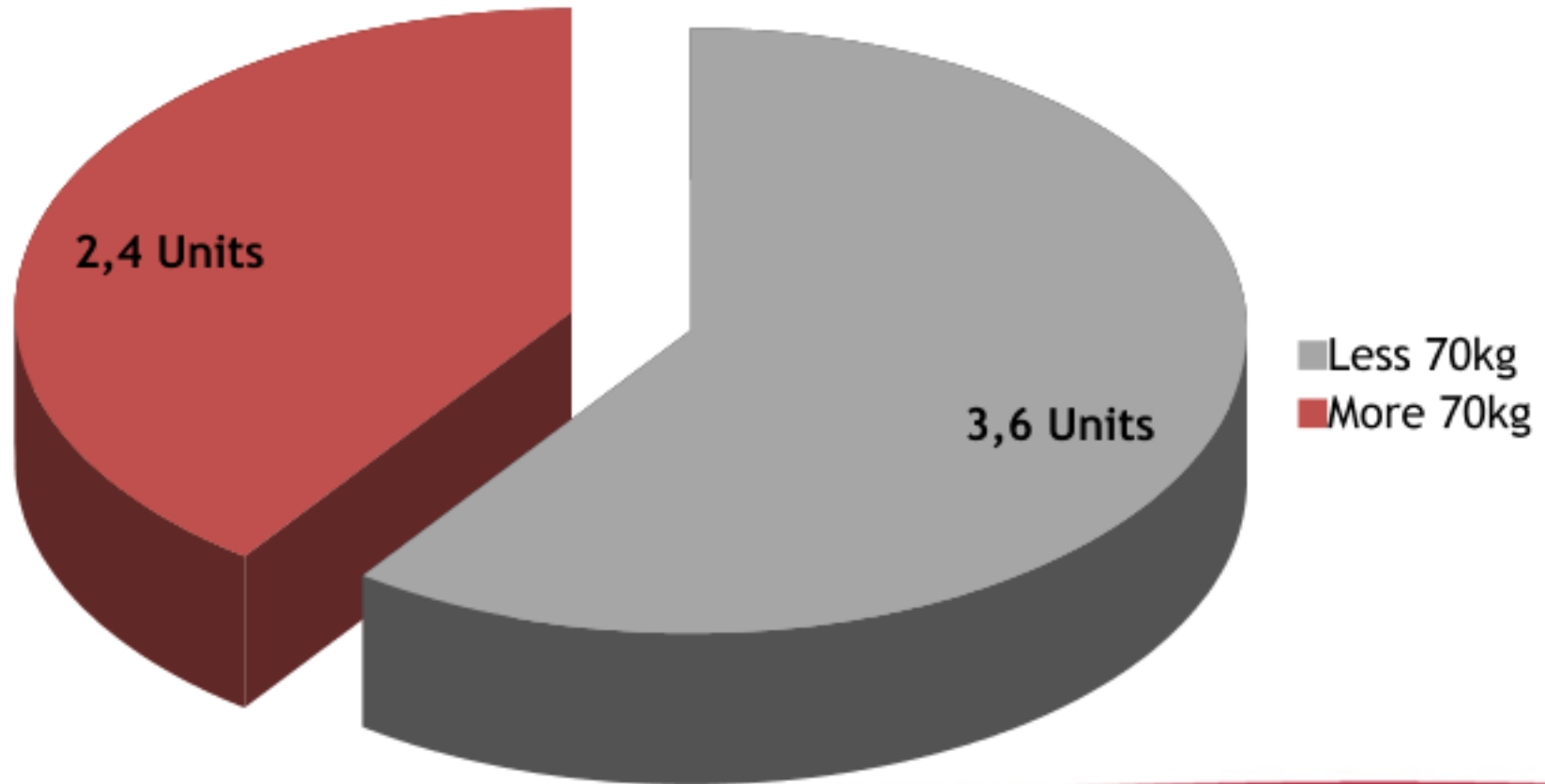
Western Cape



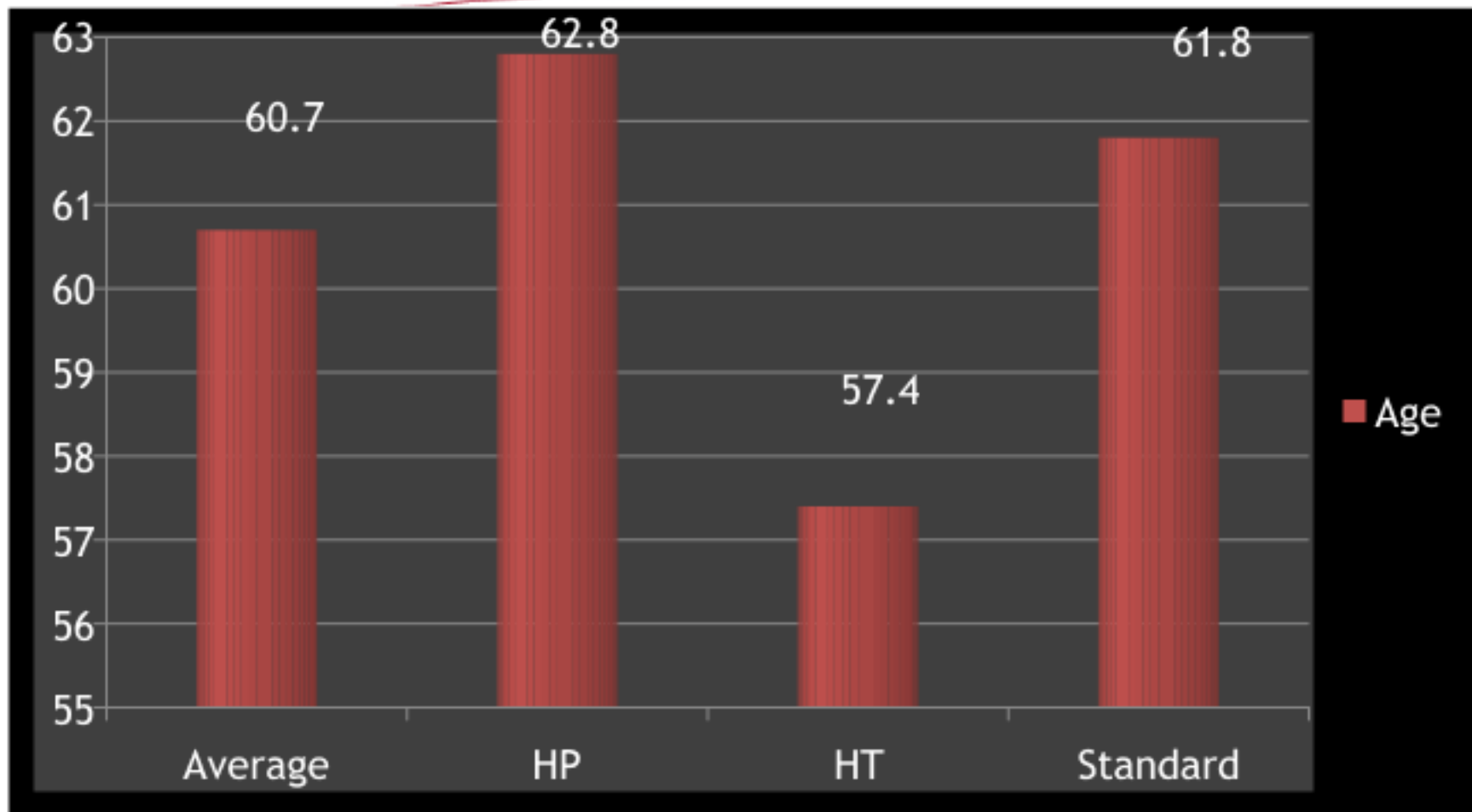
Standard



Weight



Age



Graft number

Graft No.	Percentage	Hospital P	Hospital T	Average RCC
1	12%	4	8	1,1 Units
2	27%	5	22	2 Units
3	42%	17	25	3,2 Units
4	22%	18	4	2,1 Units
5	5%	5	0	2,6 Units
6	1%	1	0	2 Units



Conclusion

- The average transfusion rates comparable to international studies
- HT Transfusion rates although elevated may be justified by increased post Hb results
- Results vs. gender/weight equivalent to international studies
- Results vs. age/graft number inconclusive with international studies



Thank you

Any questions?

