

NHSBT PBM team and North Bristol NHS Trust Single unit transfusion project

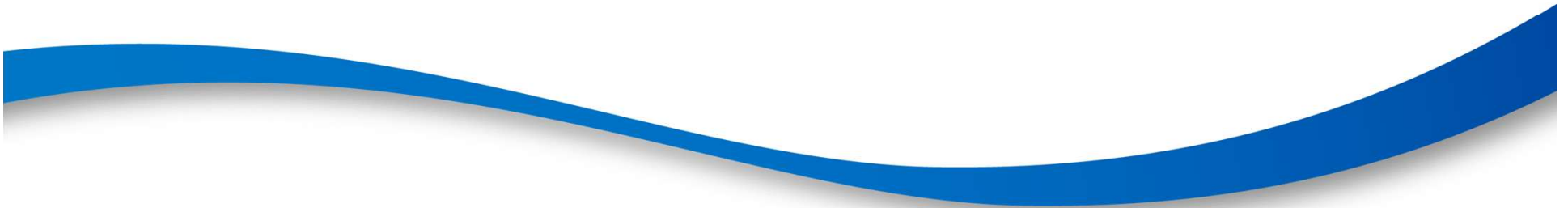
Project Leads: Katy Cowan and Elmarie Cairns

Project Team: Dr Karen Mead, Dr Christina Laxton, Dr Nirosha De Zoysa &
Nasreen Edgington


Caring Expert Quality

Transfusion Committee

- Orthopaedics
- Elective orthopaedic cases
- Fractured neck of femurs



Agreed Objectives

- To increase single unit transfusion
 - To increase Hb check / clinical assessment between units transfused
 - Improve education for all grades of staff – nursing and medical
 - To make blood transfusion in elective orthopaedic and #NOF surgery more appropriate.
- 

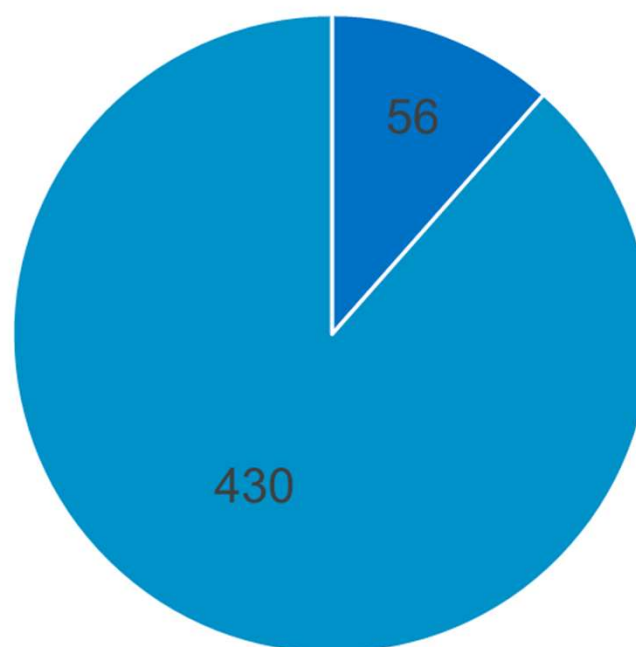
Plan

- Retrospective data collection September 2017 – February 2018
- Intensive education of ward nursing staff (2 wards) and both junior and speciality trainee medical staff August and September 2018
- Data collection September 2018 – February 2019
- Analysis of data



Sept 2017 – Feb 2018

Elective orthopaedic cases (n=486)



Transfusion Rate 11.5%

■ Transfused ■ Not transfused

Sept 2017 – Feb 2018

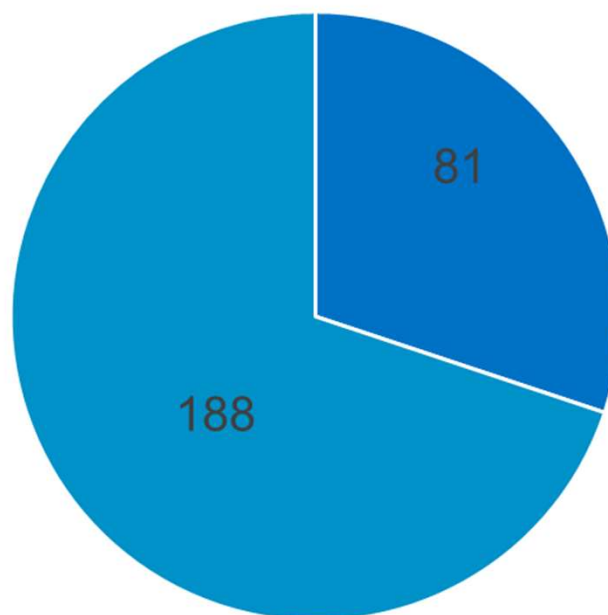
Elective orthopaedic cases

- Of the 56 patients transfused, 19 had a single unit transfusion (34%)
- Total number of units in this patient group = 130



Sept 2017 – Feb 2018

Fractured neck of femurs (n=269)




Transfusion Rate 30%

■ Transfused ■ Not transfused

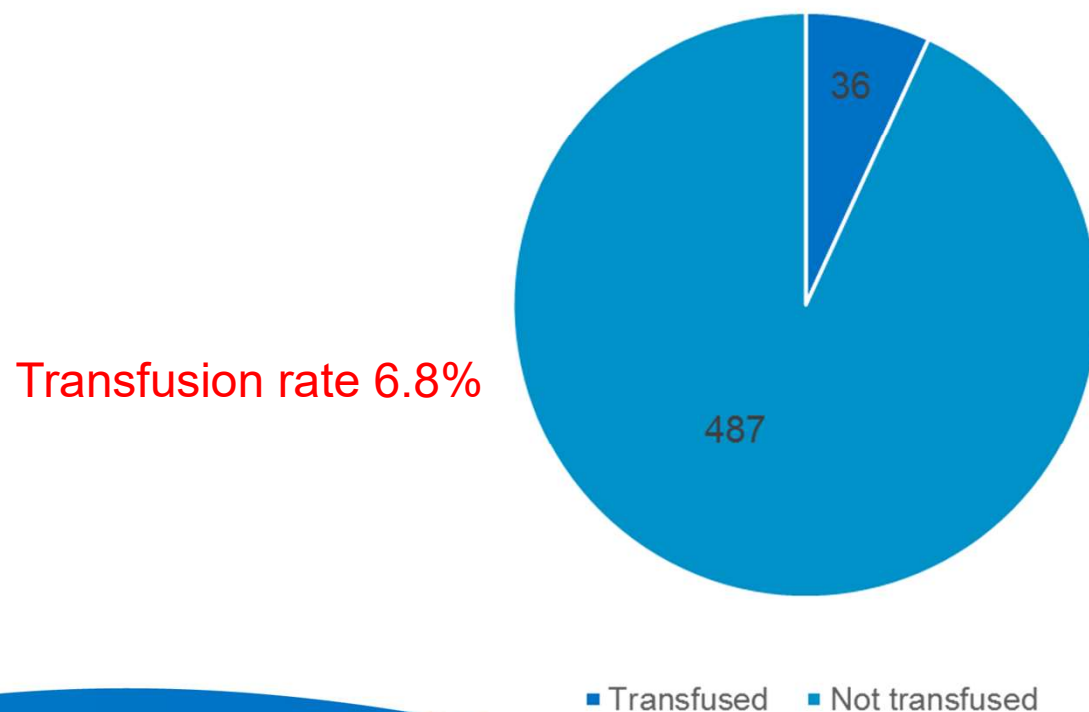
Sept 2017 – Feb 2018

Fractured neck of femur cases

- Of the 81 patients transfused, 35 had a single unit transfusion (43%)
 - Total number of units in this patient group = 176
 - Grand total of units transfused over the 2 groups of patients = 306
- 

Sept 2018 – Feb 2019

Elective orthopaedic cases (n=523)



Sept 2018 – Feb 2019

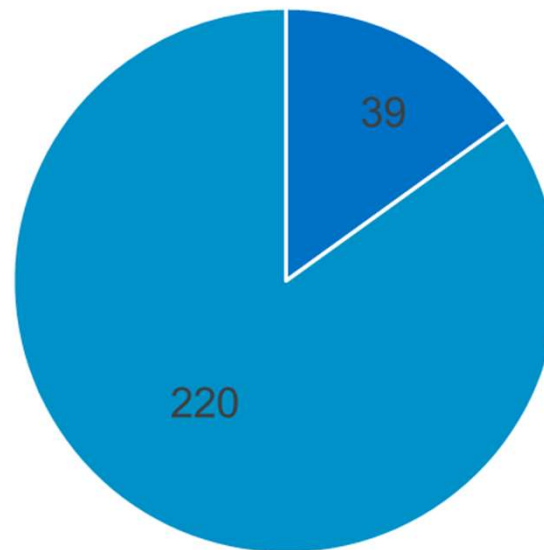
Elective orthopaedic patients

- Of the 36 patients transfused, 13 had a single unit transfusion (36%)
- Total number of units in this patient group = 80



Sept 2018 – Feb 2019

Fractured neck of femurs (n=259)



Transfusion Rate 15%

■ Transfused ■ Not transfused

Sept 2018 – Feb 2019

Fractured neck of femurs

Of the 39 patients transfused, 24 had a single unit transfusion (61.5%)

Total number of units in this patient group **61**

Grand total of units transfused over the 2 groups of patients = 141



	2017 - 2018	2018 - 2019
Elective orthopaedic surgery		
Transfusion Rate	11.5%	6.8%
Single unit transfusions	34%	36%
Total number of units	130	80
Fractured neck of femurs		
Transfusion Rate	30%	15%
Single unit transfusions	43%	61.5%
Total number of units	176	61
Grand total units	306	141
Units saved: 165		
Saving: £22,017.60		

Elective cases

Subsequent findings

- Evidence that reduced Tx rates = Shorter LOS
- 2017 / 2018 - 486 elective cases with a Tx rate 11.5%
- 2018 / 2019 – 523 elective cases with Tx rate of 6.8%

