



A Collaborative Approach to Stock Platelet Holding.

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Background – Early 2018

- No Platelets stocked on site
- Ordered as required and collected ad-hoc / via blue light.
- All activations of MHP/MOH ordered 2 x group specific platelets via blue light.
- Expanding Haematology service due to NGS Macmillan unit.
- Multiple afternoon orders for Haem in-patients.
- NHSBT introduction of £11 ad-hoc order charge, pressure to reduce cost.

Initial discussions /actions

- NHSBT representation at HTC offered assistance.
- Recognised improvements possible.
- NHSBT assisted with data collection.
- Laboratory review and data collection
- Presented at next months HTC.

Initial findings

Collection Charge

Each collection costs CRH £11 plus taxi cost of £24. 2017-18 cost to the trust was around £24k.

Type of Patient

89% of platelet transfusions in 2017 were for Haem inpatients, 9% Haem day case



Issue / Waste data

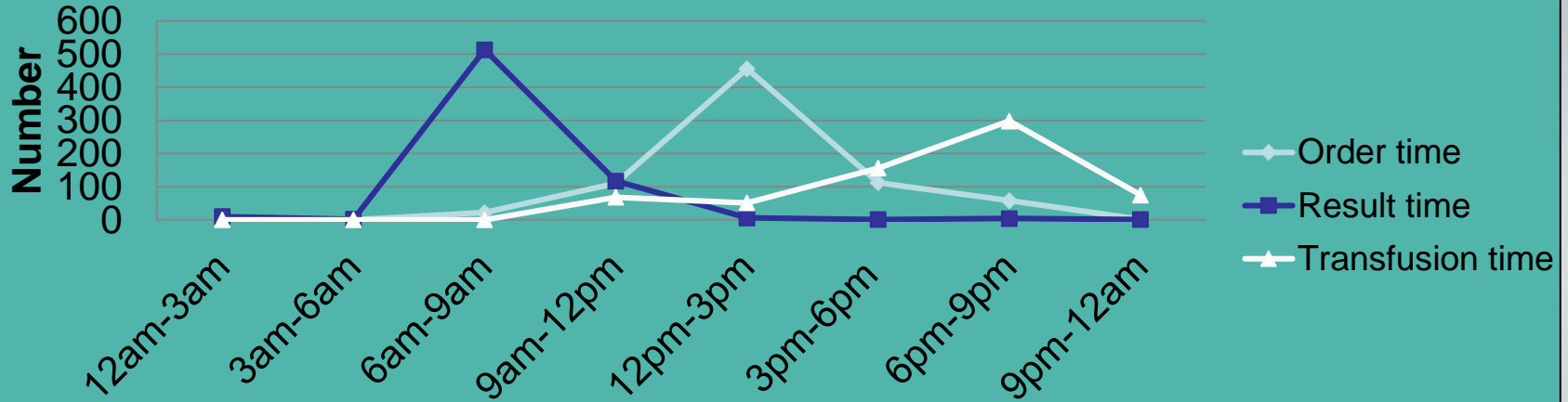
728 platelets ordered in 2017-18.
27 were wasted, most ordered for MHP/MOH.

Order times

Most orders received by the lab in the afternoon. Frequent multiple orders in one day, each ad-hoc order £11.

Initial findings

Haem in-patients 2017-18



- Trust Listening in Action (LIA) project with lead from Haem Cons and ward Matron.
- Identified issue with accessing provisional results on the ward.
- Majority of Tx occurring after 19:30, pressure on evening shift.

Continuing discussions

Action	
Use 'draft' order in OBOS	Collate the platelet orders and use the draft function in OBOS to capture all requests.
Delivery Time	Current Bank arrives 09:45, cannot anticipate Plt orders for the day. NHBST agreed to take the proposal for consideration.
Increase stock holding	Proposed we increase red cell stock holding, particularly over the weekend in order to avoid ad-hoc orders when minimal staff are in the lab. This could potentially increase red cell wastage.
NHSBT PM delivery	Data demonstrated the lab would benefit from a 2 nd delivery, however the optimal cut off /delivery time couldn't be determined. NHSBT agreed to take the proposal for consideration.
Hold stock Platelet	Hold an A D Pos HT- unit on site M-F Reduction in ad-hoc deliveries and reduce the number of transfusions after 7pm. This could potentially increase platelet wastage.
Reduce MHP requirement	Reduction in order from two to one plt units as a standard. Current protocol 4:4:1 and very few platelets transfused as part of MHP/MOH.

Stock Platelet

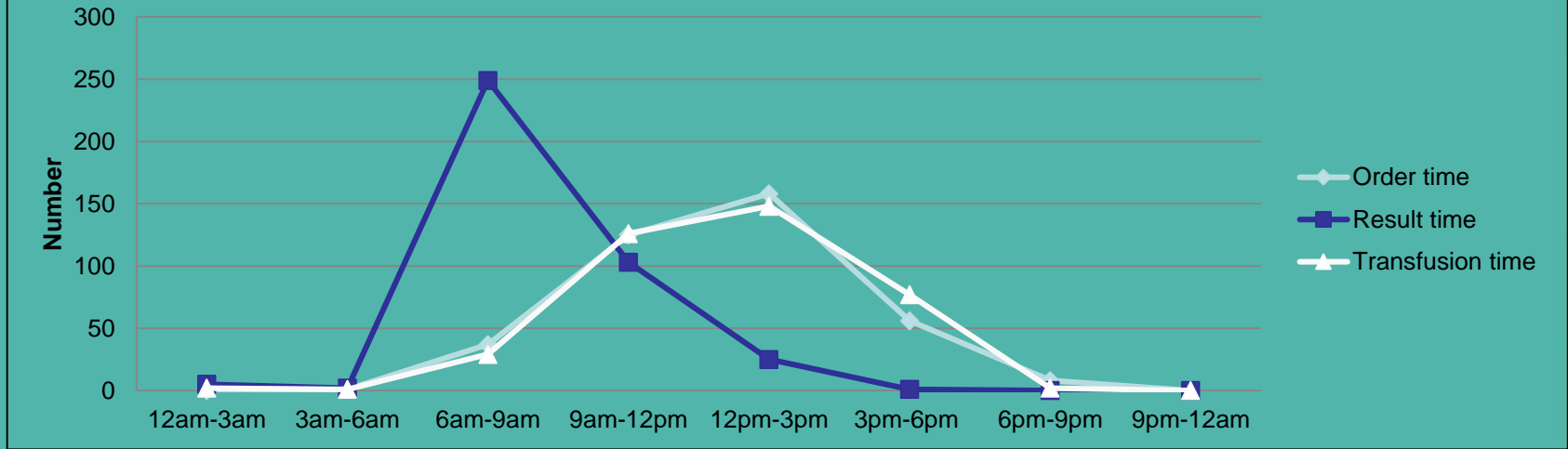


- ✓ A D Positive HT-
- ✓ Worked with staff to only order this group as stock
- ✓ Only ordered to be on site M-F
- ✓ Only replaced by bank delivery or if ordering other components.
- ✓ Reduced time from order to transfusion.

Good staff buy-in after training. Liked the reassurance particularly out of hours.

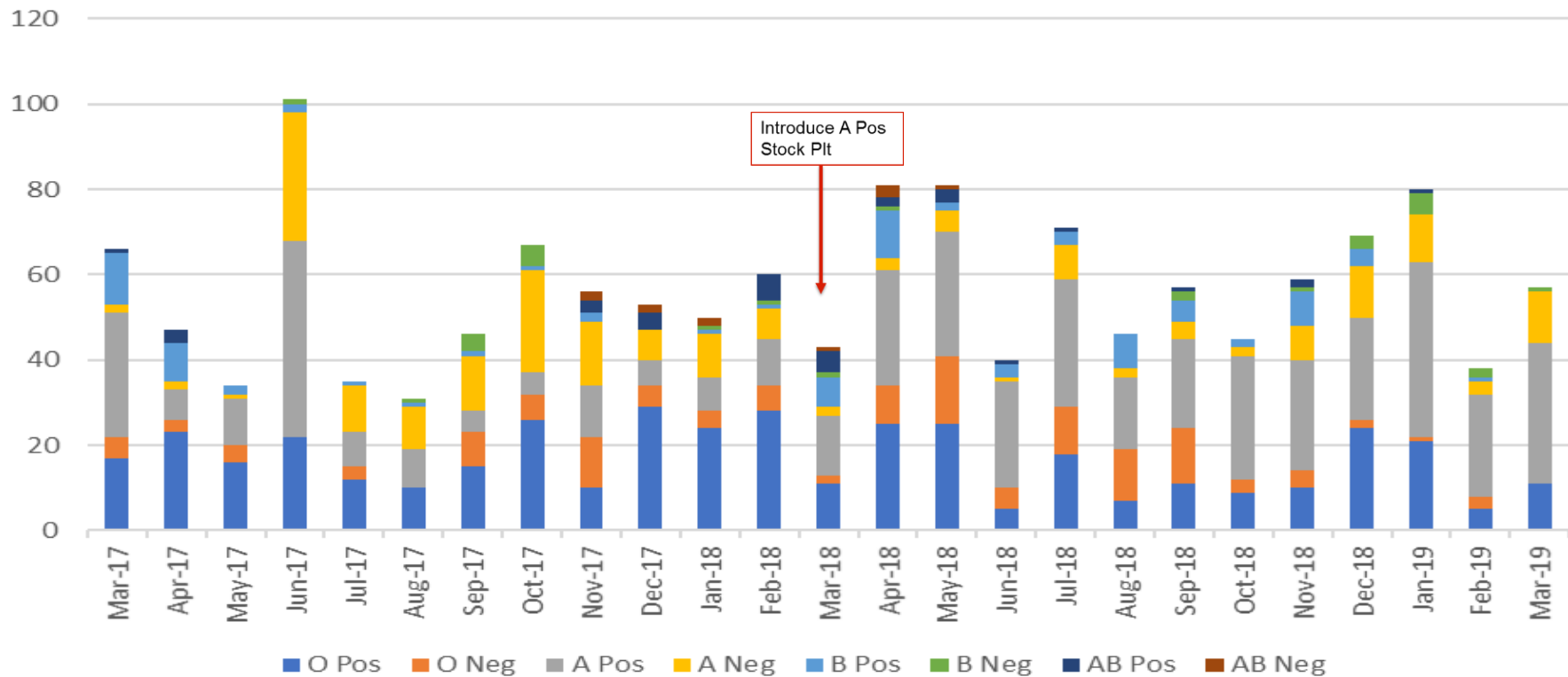
Review October 2018

Haem in-patients April - Sept 18



- LIA project successful.
- Orders all sent to the lab at the same time or notified if more to come.
- Reduced burden for evening shift staff

Platelet Issues by Group and Month



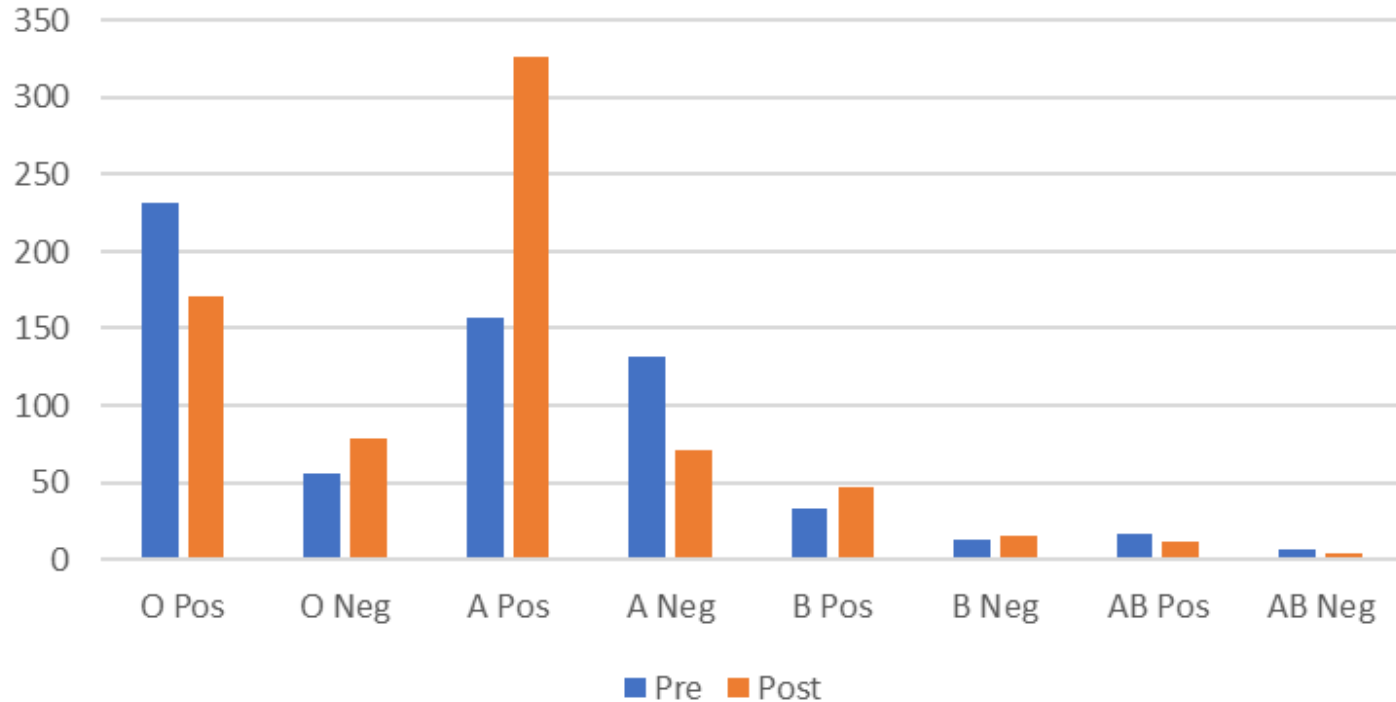
Pre-stock platelet: Total 646; Avg 54/mth

Post-stock platelet: Total 724; Avg 60/mth

(Data excludes Mar 2018)

NB. Increase in issues mainly attributable to increased plt demand from haem/onc patients

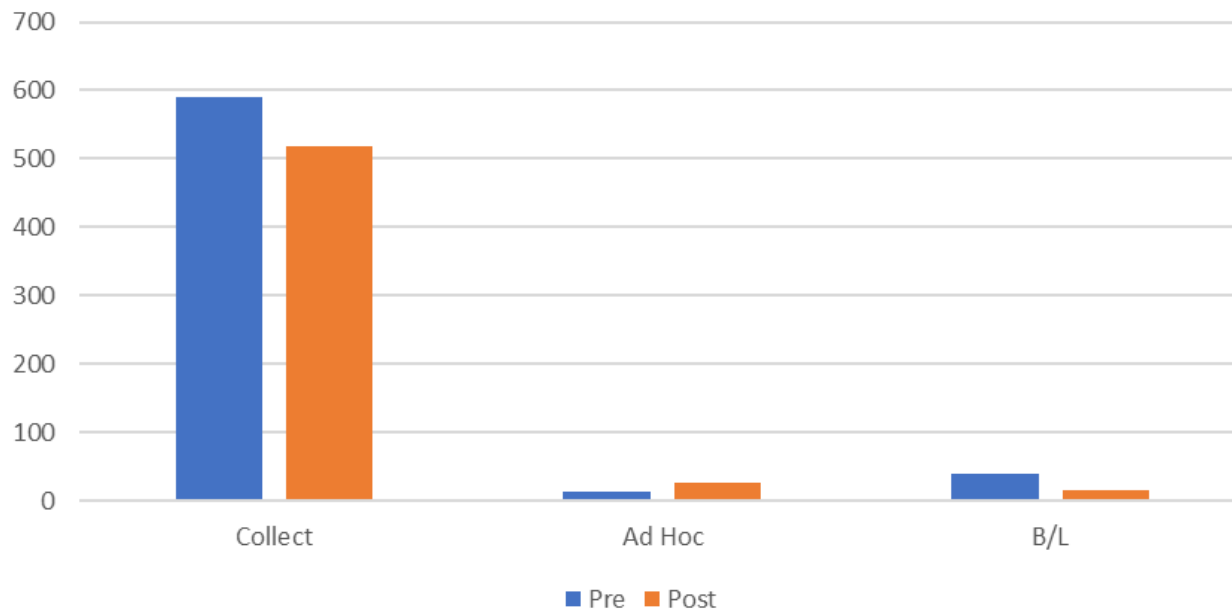
Pre and Post Number of Issues by Group



A neg: Pre – 132; post – 71

Benefits to NHSBT to help conserve the supply of this group.

Pre and Post Collects and Deliveries



	Collect	Ad Hoc	B/L
Pre	590	14	40
Post	518	26	15

Wastage	Number	Cost
Pre	26	£ 4,632.92
Post	35	£ 6,505.10
Diff	9	-£ 1,872.18

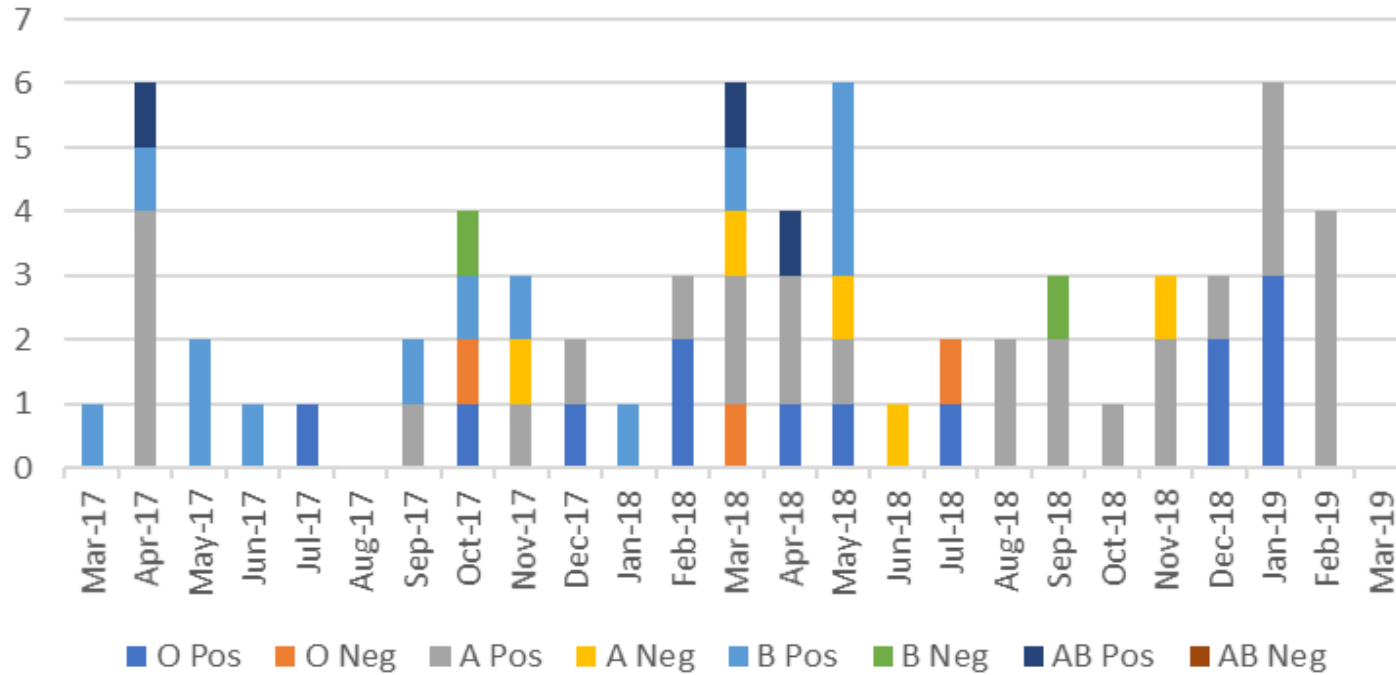
Prices based on Pooled Plts

	Collect	Ad Hoc	B/L	Total Cost
Pre	£20,650.00	£ 730.10	£ 2,036.00	£ 23,416.10
Post	£18,130.00	£1,355.90	£ 782.25	£ 20,268.15
Diff	£ 2,520.00	-£ 625.80	£ 1,253.75	£ 3,147.95

Overall Cost Saving

£1,275.77

Pre and Post Wastage by Month and Group



Pre stock platelet wastage:
 Post stock platelet wastage:
 (Data excludes Mar 2018)

26 units wasted over 12 months; Avg 2.2/mth
 35 units wasted over 12 months; Avg 2.9/mth

Current Situation

Bank Orders

- NHSBT unable to support change to delivery time or 2nd delivery.

Stock Levels

- Increased minimum stock for Friday Bank for O Pos / A Pos.
- Pre-emptive ordering for in-patients requiring Irradiated components.

MHP

- Initially thought that Platelets not transfused in MHP due to time taken for delivery.
- Data shows they are not transfused even when readily available .

Stock Platelet

- Aim to have on-site over the weekend and order 2 for stock, dependent on demand.
- Waste has increased due to over ordering of Clopidogrel (anti-plt drug) cases and cases of prolonged HLA matched support.

Future Developments

Movement of short dated stock

- CRH part of Derbyshire Pathology, validation work planned with Derbyshire Blood Bikes

Pre thawed FFP

- Currently trailing 5 day storage.
- Reviewing MHP/MOH protocols



Review of ad-hoc orders

- Profile what components, day of the week, and times of orders

Increased use of Vanessa

- Monthly BSMS audit added to schedule. Looking at issued, wasted and transfused levels.

Acknowledgements

- Delia Smith – NHSBT
- CRH Blood Bank staff – many hours of data collection.

