WHY SO MANY?

AN AUDIT OF PLATELET USE AT CMFT

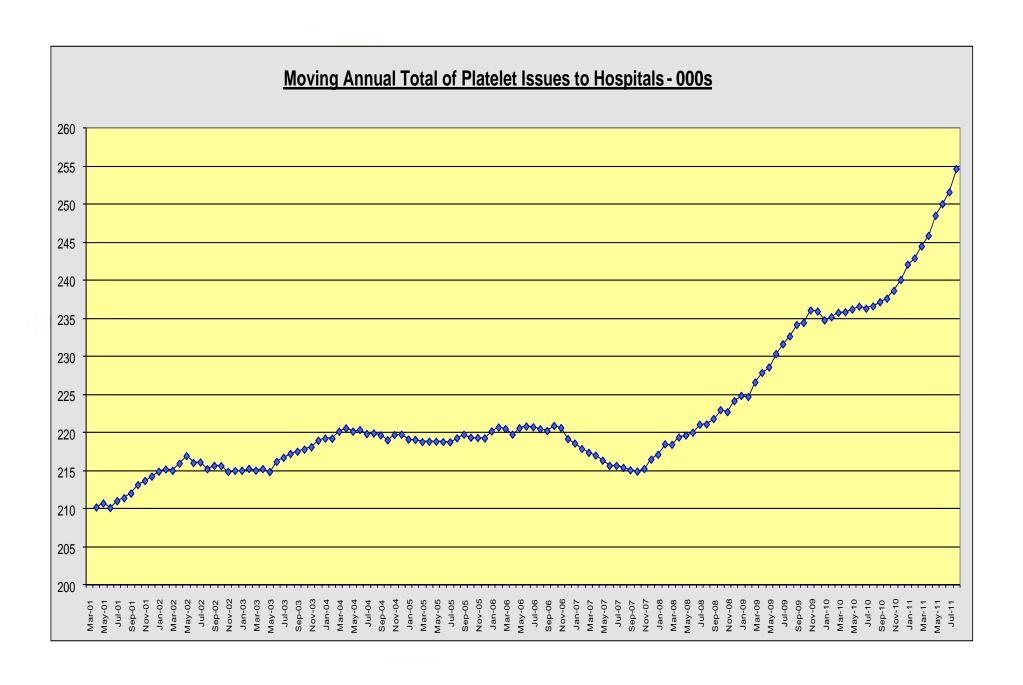
A SURVEY OF EMPOWERMENT IN THE LABORATORY



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19th January 2012

OBJECTIVES

- o Increasing use of platelets
 - CMFT Data
 - NCA of platelet use
- Audit and Survey
 - Audit of Platelet Use at CMFT
 - Survey of Laboratory Empowerment
 - Implications
 - Recommendations

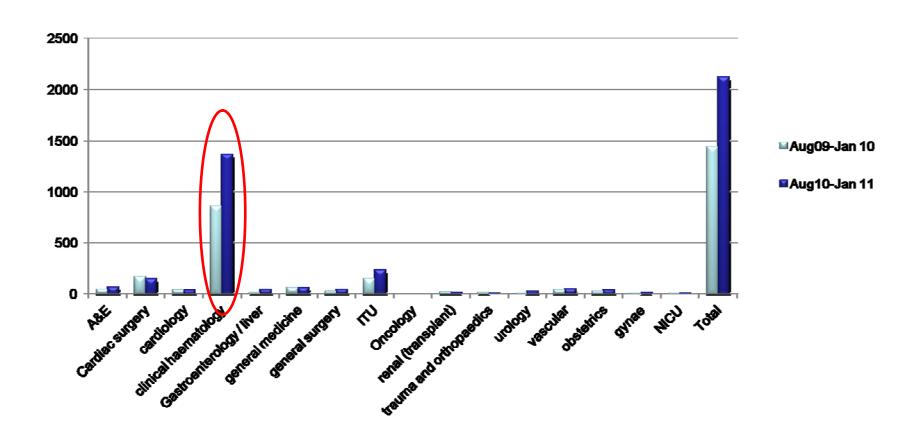


Hospitals Served by :- Manchester

12 Month Averages expressed to nearest whole number

Hospital Name	Pulse	Total Platelet Issues Comparison		
		Last 12 Month Average	May 2011	Total Issues Change
Central Manchester Foundation Trust	M103	461	695	50.8%
Christie Hospital	M020	191	225	17.9%
Wythenshawe Hospital	M050	104	163	56.2%
Salford Royal Hospital	M022	94	151	60.4%
Royal Oldham Hospital	M036	116	96	-17.3%
Wigan Royal Infirmary	M046	64	52	-18.9%
Leighton Hospital	M026	32	51	61.1%
Royal Bolton Hospital	M014	34	45	30.8%
North Manchester General Hospital	M032	66	35	-47.1%
Trafford General Hospital	M044	26	25	-2.9%
Stepping Hill Hospital	M040	22	15	-32.6%
Tameside General Hospital	M042	15	12	-20.9%
Fairfield General Hospital	K003	13	7	-46.8%
Macclesfield District General Hospital	M028	7	7	7.7%
TDL Salford	M112	14	7	-49.4%
SPIRE Hospital Manchester	M082	1	4	500.0%

Chart showing platelet use by specialty MRI / SMH



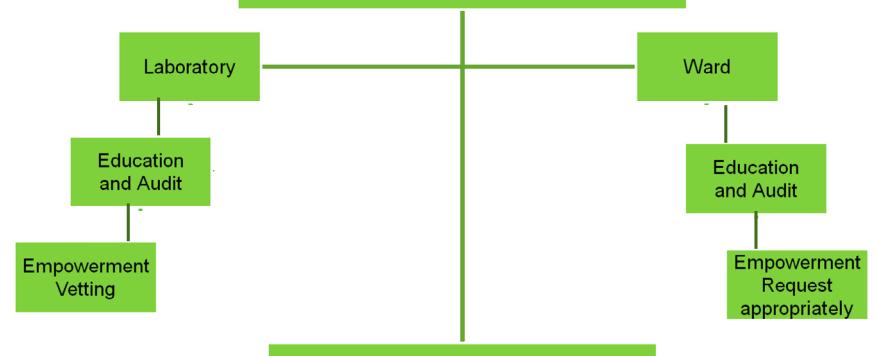
NCA 2007-2010

- **o** 2007-08
 - 27 to 57% haematology patients
 - Prophylactic to prevent haemorrhage
- o 2010
 - 28% inappropriate use
 - o 69% prophylactic
 - o 34% were inappropriate
 - 10% were double dose transfusions
 - 15% were pre-invasive procedure
 - o 23% were inappropriate
 - 9% Prior to BM
- Local Guidelines differ from BCSH

RECOMMENDATIONS (NCA)

- A pre and post-transfusion should always be performed
- Platelet transfusion is **not** required routinely
 - Prior to bone marrow aspiration and biopsy
 - In stable patients with long term bone marrow failure
- Double-Dose prophylactic platelets unnecessary
- Local Guidelines should be based on updated BCSH guidelines
- IT solutions to make data to audit practice

Improvement in the level of appropriate requesting requires development of locally agreed guidelines based on national recommendations



Specific Request Form
Menu of Accepted Indications
Improved Communication
EMPOWERMENT

OUR INTERVENTIONS

- Audit
 - 1) Clinical Audit
 - 2) Laboratory Audit
- Survey
 - Empowerment Survey
 (North West and North Wales)

AUDIT (CMFT) CLINICAL AND LABORATORY

RESULTS

o 111 platelet requests made in October 2011

Captured Data

Laboratory

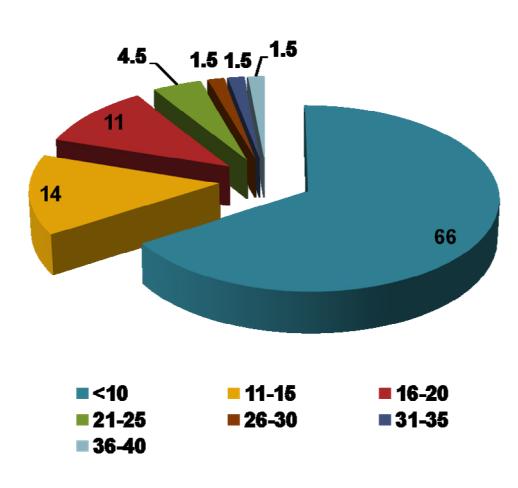
80 / 111 (72%)

• Haematology Day Unit 30 / 111

Ward 44

70 / 111 ^{(90%}

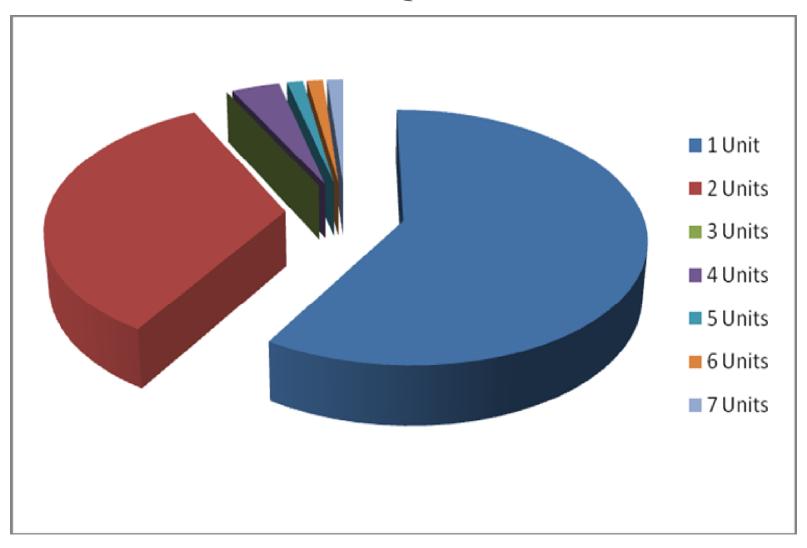
WARD (70/111)



o 70 episodes

- Variable reasons
- Pre counts
 - o All 24hrs prior
 - **o** 3-36
- o 44% >10
 - 61% had risk factors
 - HLA abs
 - CVL insertion
 - IC bleeds
 - 39% did not

NO OF DOSES REQUESTED

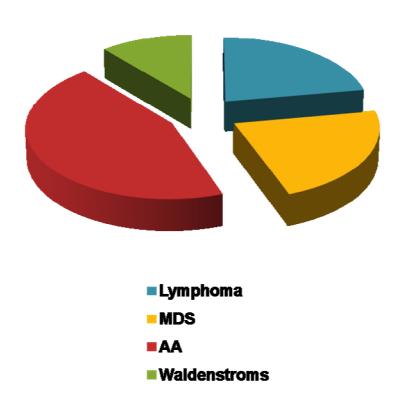


NO OF DOSES REQUESTED

DOSES	REASON	INAPPROPRIATE
1	Prophylaxis	10/47
2	HLA, Poor increments	20/27
3	0	0
4	Post BMT, GI Bleed	0/3 (same patient)
5	Severe AA, Bleeding, HLA	0/1
6	Severe AA, Bleeding, HLA	0/1
7	Post BMT, IC Bleed	

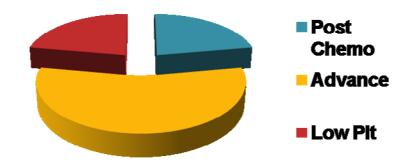
As the number of risk factors increases so does the Clinician's anxiety

DAY UNIT (30/111)

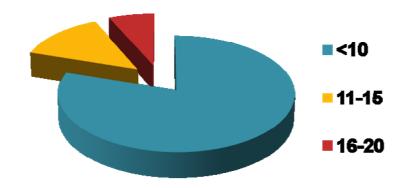


- Chronic Conditions
- All had pre-counts
 - Only 1/30 post count
- Advance requests
 - Made >24hrs
- All prophylactic

DAY UNIT (30/111)

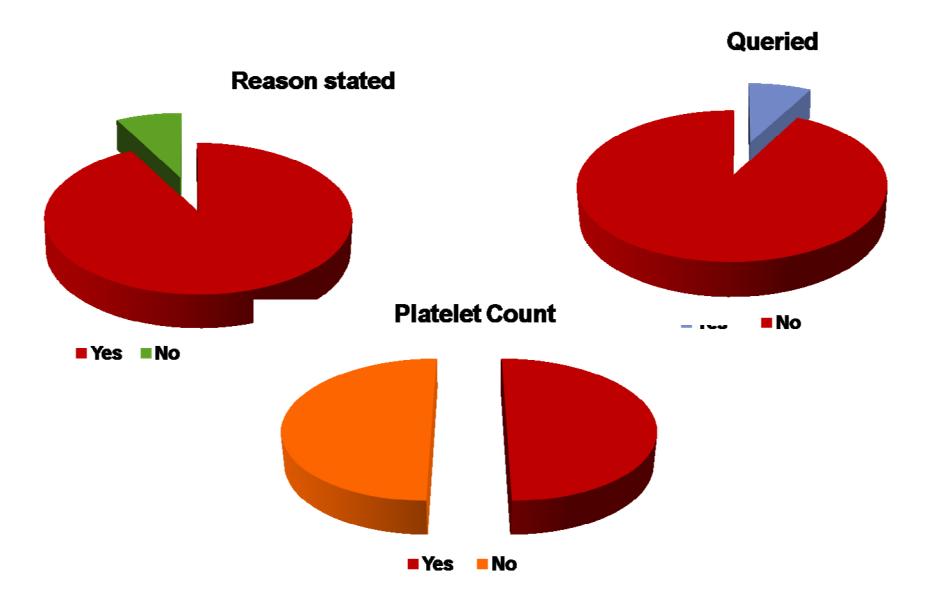


- Prophylaxis
- o All had 1 unit



20% had a Plt count>10 at time ofTransfusion

LABORATORY (80/111)



LABORATORY (80/111)

- Reason stated
- SR PAD Accurate
- ABO Matched
- o Rh Matched
- Minimal Delays
- Inspection

- Platelet count
- Low level of querying

AUDIT CONCLUSIONS

- Inappropriate use of platelets
 - Thresholds not always adhered
 - > 1 unit requested
- Laboratory
 - More involvement
 - Do not query

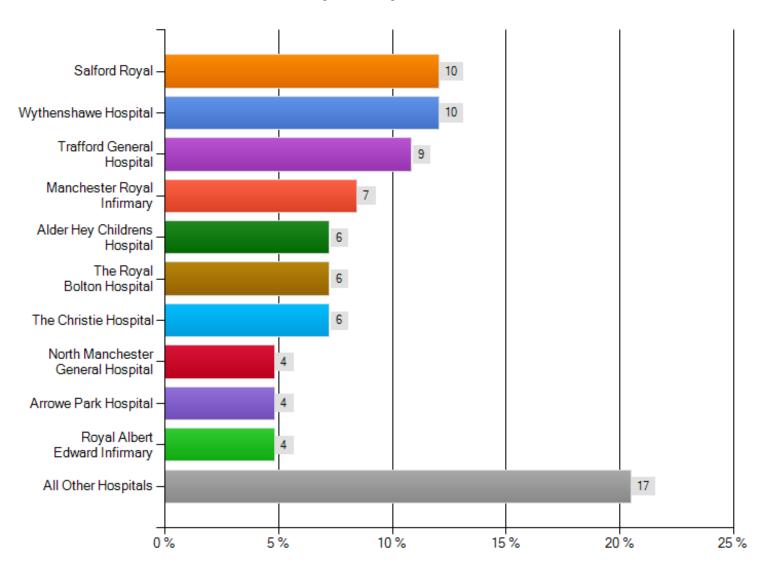
SURVEY

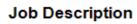
EMPOWERMENT
(NORTH WEST & NORTH WALES)

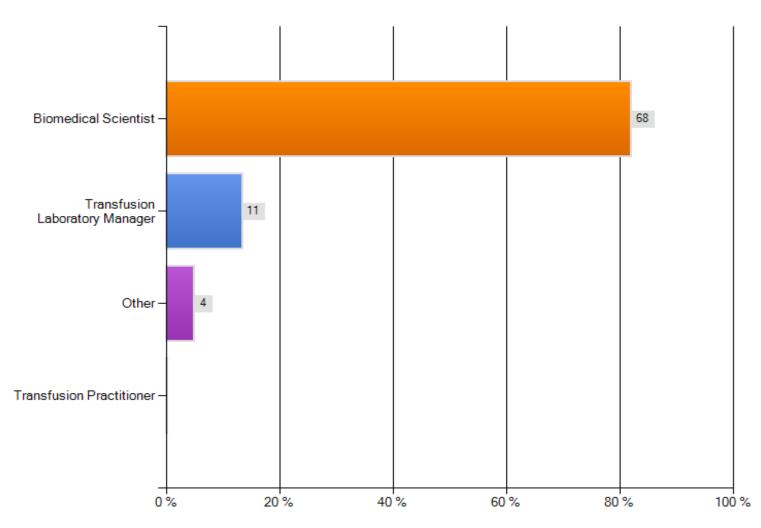
EMPOWERMENT SURVEY

- Survey Monkey tool
- o 37 Trusts
 - North West and North Wales
- 14 questions
 - Biomedical Scientist
 - Their laboratory
 - Their practice
 - Their views

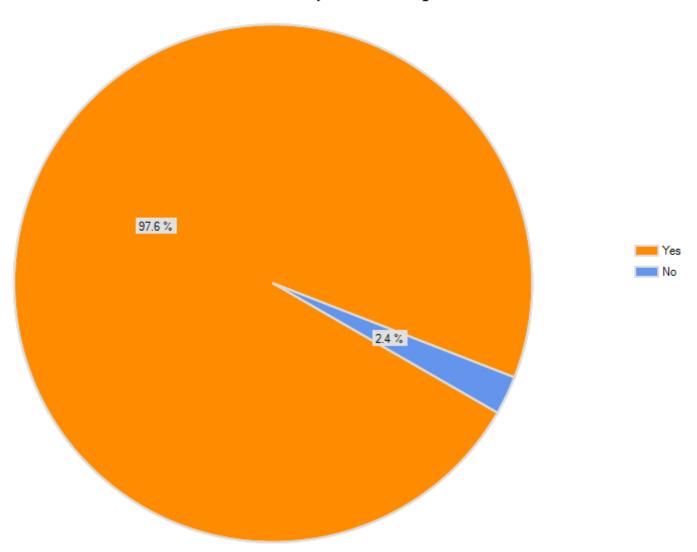
Hospital Responses



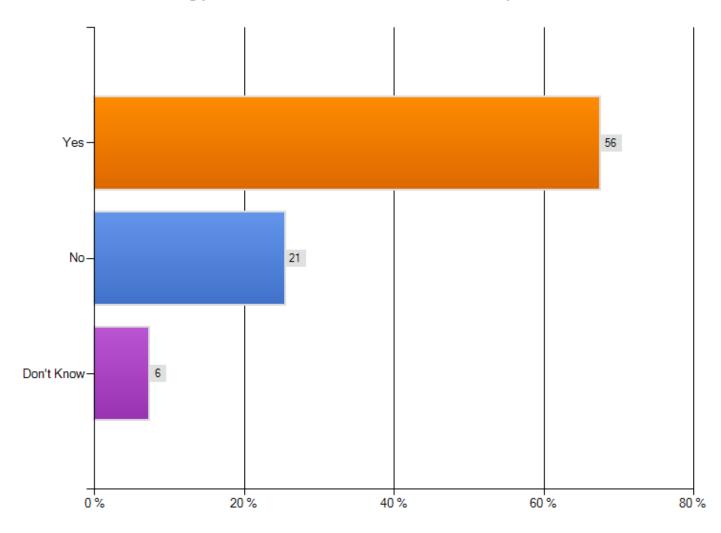




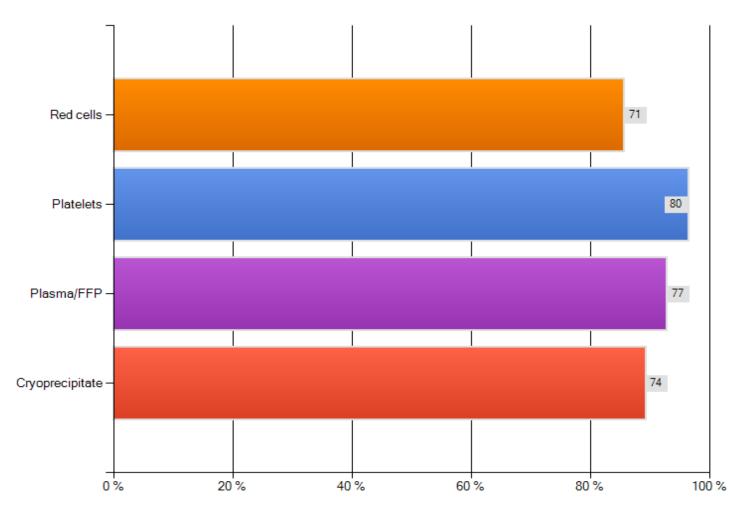
Involvement in Blood Component Issuing



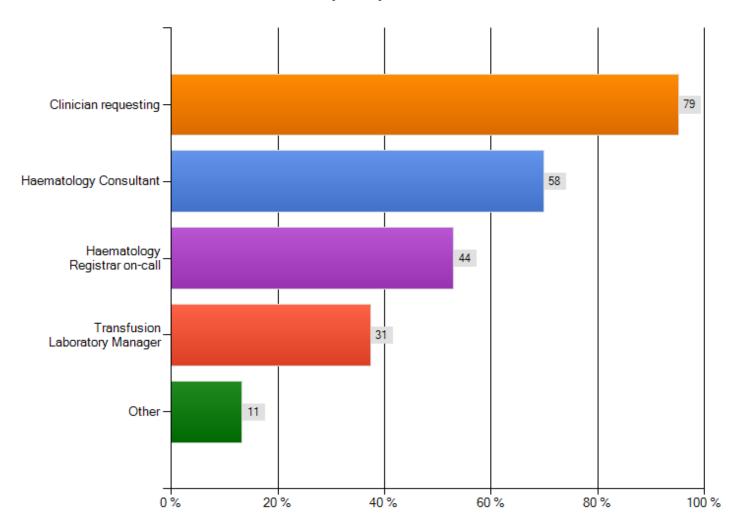
Vetting procedure/Tool for the issue of blood components



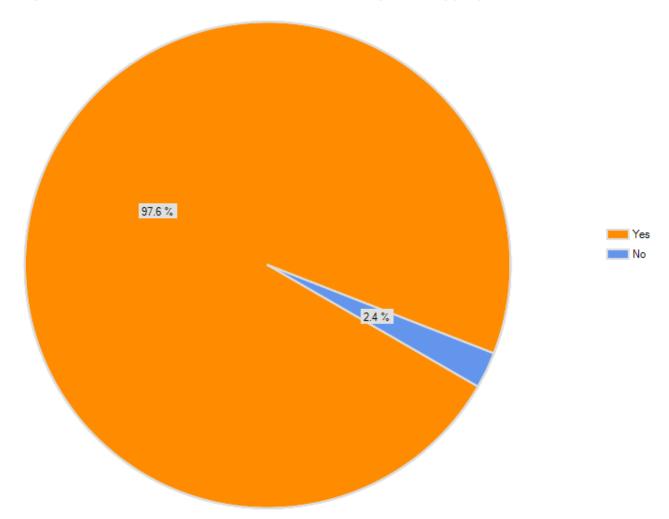
Querying requests for blood components



Person request queried with

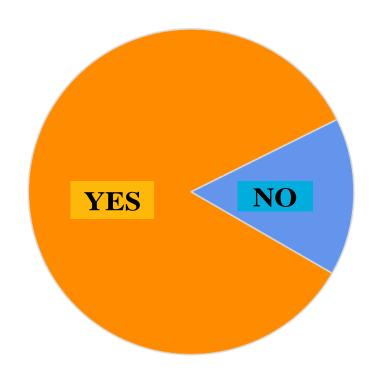


Do you feel it is the Clinician's role to ensure the request is appropriate?



Laboratory's Role to Vet Request?

Happy to Vet Requests?





COMMENTS YES (77%)

- To ensure correct and appropriate use of blood and products
- Lack of knowledge or thought from clinician, especially in an emergency situation can lead to inappropriate requesting
- Because we are specialists in our area we can identify where blood use is inappropriate
- To avoid unnecessary transfusions and work within the lab
- I would vet if the request was considered inappropriate
- Shot report- majority of incidents caused by human error we should do anything in our power to ensure all requests are appropriate and where they are not, relevant advice or referral given
- Because even though it is the requestors role to get it correct there maybe training/incompetency issues
- Better Blood Transfusion suggests that BMS's should vet

The BMS has a responsibility to ensure that all requests are appropriate, this must always be done in partnership with the clinical staff to ensure best patient care

COMMENTS NO (23%)

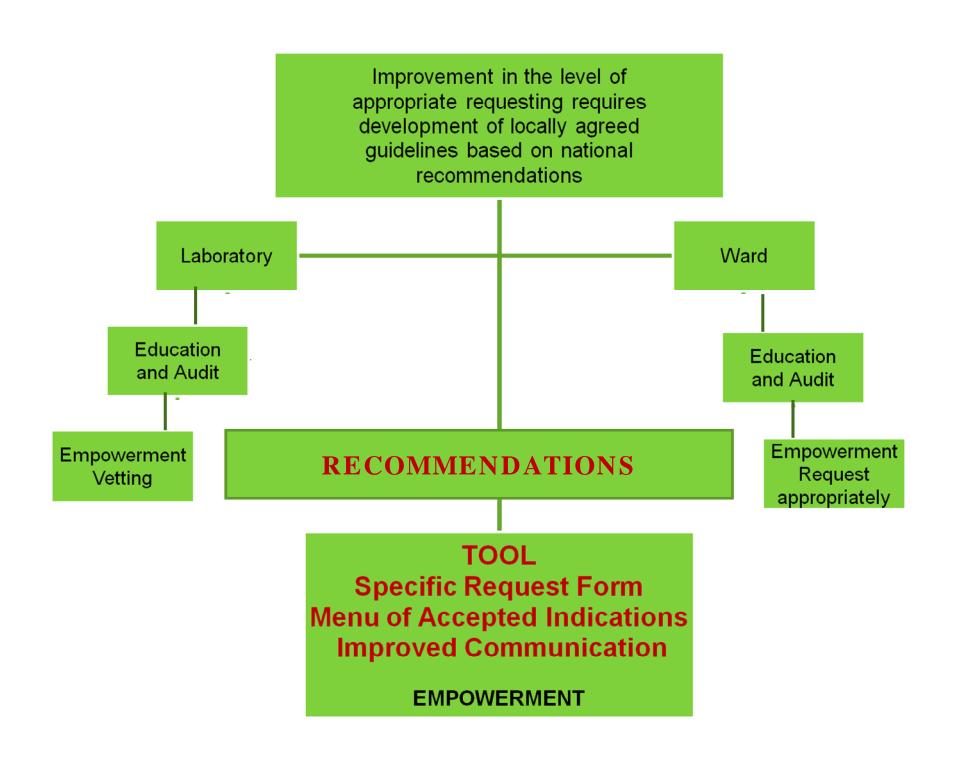
- Clinicians should be aware of what they are requesting
- o Not enough time. Guide sheets may help
- Doctors are paid more money to make clinical decisions
- Ultimately a Medics responsibility, we can only advise and point out results to guide and clarify their decision, we do not see the whole picture and I don't want that responsibility
- It requires a clinician to assess patient's requirements. A BMS would be loath to deny products against a clinicians wishes
- It's not my responsibility
- I think we are too busy to think about this as well
- I think it is really beyond the expectation of my grade, although knowledge of appropriate requests is necessary in the interest of patient care and safety

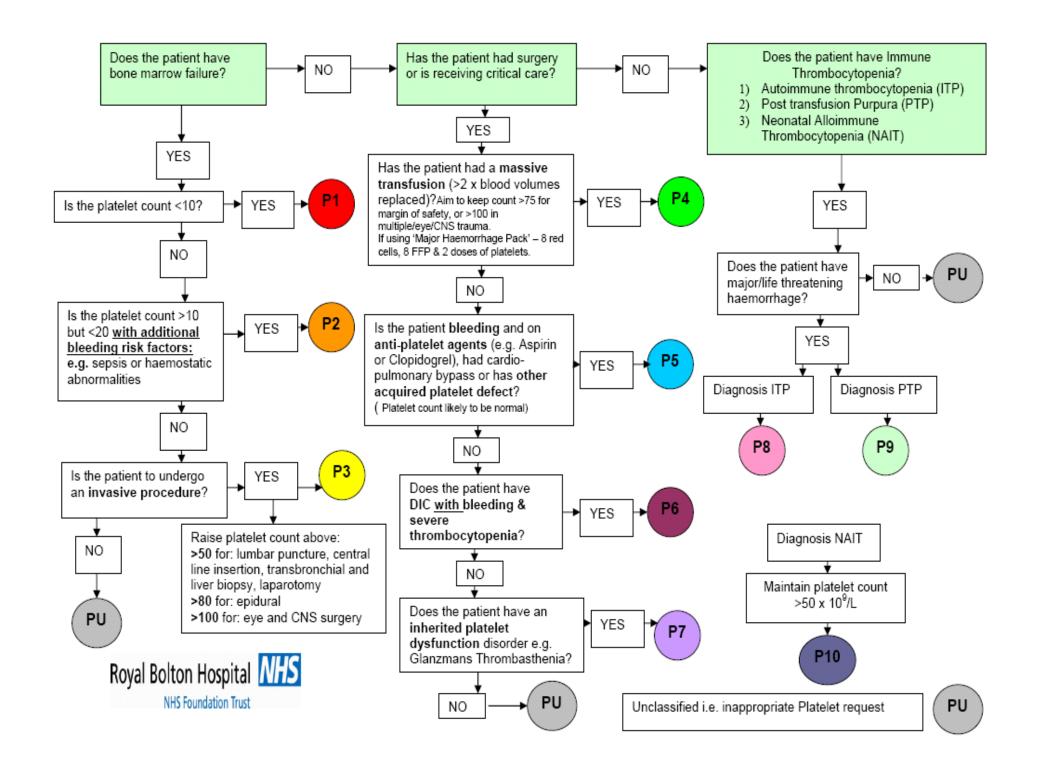
SURVEY CONCLUSIONS

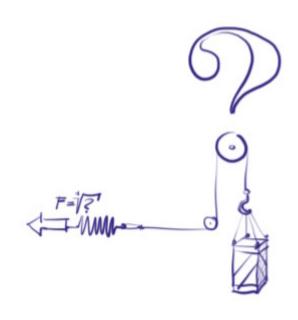
- Knowledgeable BMS'
- Variability in vetting / querying
 - Tools
 - Protocols
- Majority feel vetting role is appropriate

OVERALL CONCLUSIONS

- Clinical
 - Inappropriate Use
- Laboratory
 - Not enough Active involvement
- Empowerment
 - Majority want to be empowered







QUESTIONS AND DISCUSSION

THANK YOU