#### Audit on platelet requesting, completion of platelet request form and wastage of platelets in Haematology Patients

by

Dr Sally Killick Consultant Haematologist Julie Johnson Transfusion Service Co-ordinator Stacey Reichter BMS Section Manager

# Aims of Audit

Review platelet transfusion requests on haematology patients in one calendar month, with regards:

- Accurate completion of platelet request form
- Wastage of platelet transfusions
- Requests fulfilling Trust guidelines for platelet transfusions

## Audit Methods

- Audit timeframe: March 1<sup>st</sup> 31<sup>st</sup> 2015
- Review of all platelet request forms received by the hospital Transfusion Laboratory by transfusion practitioner
- Form checked for accuracy of completion
- Indications/appropriateness compared to Trust policy on platelet transfusions
- Completion of platelet transfusion was the transfusion given?
- Was the platelet transfusion no longer required? If so, were the platelets wasted or reallocated?

### Audit Results

- Number of platelet transfusion requests for haematology patients (coded according to 5 consultant haematologists) 1<sup>st</sup>
   -31<sup>st</sup> March 2015 = 128
- 87/128 = 67% forms were filled in correctly

**1** Does this mean that 87 were correctly filled in or incorrectly filled in? Sally Killick, 25/05/2015

# Audit Results – form filling

Missing data on forms:

- •Number of ATD not documented 4/128 = 3%
- •Urgency not documented 14/128 = 11%
- •No Pre count 23/128 = 18%
- •Increment not taken 49/128 = 38%
- •No target platelet count 5/128 = 4%
- •Prophylactic not documented 66/128 =51%

# Platelet transfusions not required

- Total number of requests = 128
- Number of platelet transfusions not required once ordered = 15 (12%)
  - Returned 10
  - Disposed 2
  - Cancelled 1
  - Double order 2
- Potential cost of wastage £3750; unclear how many were reallocated

# Audit Results

- Platelet transfusions according to Trust Policy
- •This was very difficult to audit retrospectively as data on forms unreliable
- •No code to record non-reversible BMF (chronic stable BMF) to capture those patients given platelet transfusions which were not indicated
- •Pre transfusion platelet counts not always available (18%)
- •Retrospective review of notes very challenging due to mass scanning of notes into EDM with unpredictable order

# Audit Outcomes

- Example of good practice: Introduction of new platelet request form (available on the intranet, author Stacey Reichter)
  - To improve ability to audit
  - To make indications clearer to requesters
- Guidance on how to complete platelet request form correctly (available on intranet, author Stacey Reichter)
- Improved Education and Training for medical staff completing the forms
- Present audit on the BTU educational programme and Directorate Governance Meeting

## New platelet request form

Found on hospital intranet – policies/transfusion/useful transfusion related documents

Directorete	TELET REQUEST FORM of Pathology & Cancer Care Bracey National A Constantion Hospitale NHS Foundation Trust Bracey National Julie Johnson								Document Revision n Active date Review dat Pages	5.0 5 Mayl 2015
		P	LATELET RI	QUEST	ORM					
PATIEN	r DETAILS- Affix addressograph		CLINICAL DIAGNOSIS	NUMBER OF UNITS	FOR USE ON DATE/TIME	IS THE PATIENT BLEEDING Y/N	PRE-TRAN PLATELET COUNT X10 <sup>9</sup> /I		TARGET PLATELET COUNT x10 <sup>9</sup> /I	Specific Moving an only Laboratory names (who)
										Special Hypoleseese
	N FOR REQUEST: TICK BOX(ES) marrow failure (BMF) TICK BO Prophylactic for reversible BMF e.g. disease, treatment and count <10 x10 <sup>4</sup> /t Not indicated in chronic stable BMF	X Cri P4	tical care Massive transf x10% frontpic	usion aim for o CNS or eye trau	count of >75x10	тіск во 1°л, >100	K Imm P8	1° Immu emergen (aim for >70 x1	0"/ for obstet	
P1R AUTO	Prophylactic reversible BMF associated with autologous BMT count <10 x10 <sup>9</sup> /1	P5	Acquired platelet dysfunction if non-surgically P9 correctable bleeding			P9	anaesthesia) Post-transfusion purpura if major haemorrhage			
			Acute DIC & bleeding P10					lage	a major	
P1C	Prophylactic for chronic irreversible BMF e.g. MDS, AA not on treatment Out of outletines: phone lab for advice	PS	Acute DIC & ble	eding			P10	Neonata	l alloimmune count >30 x10 <sup>9</sup> /l	thrombocytopenia
P1C P2R	AA not on treatment Out of guide/hes: phone lab for advice Reversible BMF with additional risk factors for bleeding platelet threshold according to risk e.g. sepsis	PS P7	Acute DIC & ble Inherited plate surgery	57. V 10 10 10 10 10 10 10 10 10 10 10 10 10	with bleeding	or pre-	P10	Neonata	alloimmune	STOCKS .
P1C P2R P2C	AA not on treatment Out of guidelines: phone lab for advice Reversible BMF with additional risk factors for biedding platelet threshold according to risk e.g. sepsis if count <20 x10 <sup>4</sup> /n, Gi bieed Chronic BMF (e.g. MDS) with additional risk factors		Inherited plate	57. V 10 10 10 10 10 10 10 10 10 10 10 10 10	with bleeding	or pre-	P10	Neonata	alloimmune	STOCKS .
P2R	AA not on treatment Out of guidelines: phone lab for advice Reversible BMF with additional risk factors for bleeding platelet threshold according to risk e.g. sepsis if count <20 x10 <sup>2</sup> /i, Gi bleed		Inherited plate	et dysfunction			P10	SAME ORDEI PLATE IF NO LABOF	DAY ROUTINE C RED BY MIDDAY / LETS RESERVED LONGER REQUIR RATORY ON EXT	thrombocytopenia

THIS IS UNCONTROLLED IF PRINTED LAST PRINTED 08/05/2015 08:40:23

#### Guide to completing a platelet request form

Found on hospital intranet – policies/transfusion/useful transfusion related documents

Guide to	Completing a Platelet Request Form	Document ID	B-TRA-I-T00194
Directorate	of Pathology & Cancer Care	Revision number	1.0
Royal Bourr	nemouth & Christchurch Hospitals NHS Foundation Trust	Active date	5 May 2015
Author	Stacey Reichter	Review date	5 May 2017
Authorised	Julie Johnson	Pages	1/4

#### Guide to completing a Platelet Request Form

The entire platelet request form must be completed by a registrar or consultant grade member of staff.

#### 1. Top section

PATIENT DETAILS-Affx addressograph	CLINICAL DIA GNOSIS	NUMBER OF UNITS	FOR USE ON DATE/TIME	IS THE PATIENT BLEEDING Y/N	PRE-TRANSPUSION PLATELET		TARGE T PLATELET	Space for laboratory use only Laboratory number (sfilb) Group
					COUNT X1091	DATE	COUNT x1041	Special requirements

## Audit Outcomes

Prospective re-audit in last quarter 2015

- To review completion of forms
- To review wastage
- To review transfusion of platelets according to Trust policy