

South West Regional Transfusion Committee Project: Electronic Appropriate Blood Use Data





A novel method of data analysis for utilization of red blood cell transfusion

Steven M. Frank, Linda M.S. Resar, James A. Rothschild, Elizabeth A. Dackiw, Will J. Savage, and Paul M. Ness Transfusion, Volume 53, Issue 12, pages 3052–3059, December 2013
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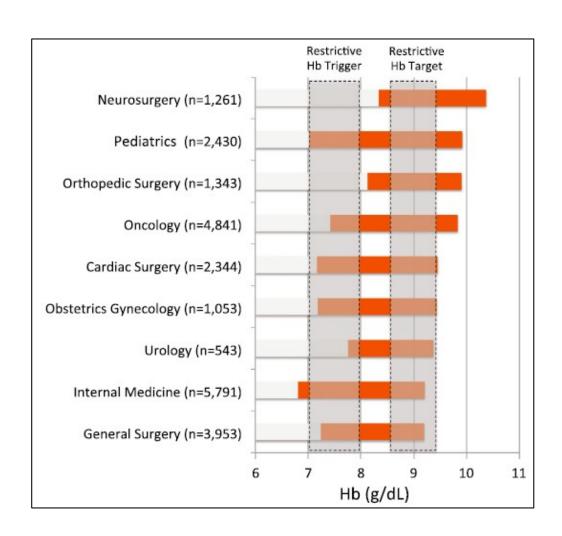
• RBC use in 23,500 patients transfused over 44 months

- Lowest and last measured Hb during hospital stay used:
 - lowest for pre-transfusion Hb 'trigger' Hb
 - last Hb prior to discharge 'target' Hb

Frank et al. (2013)

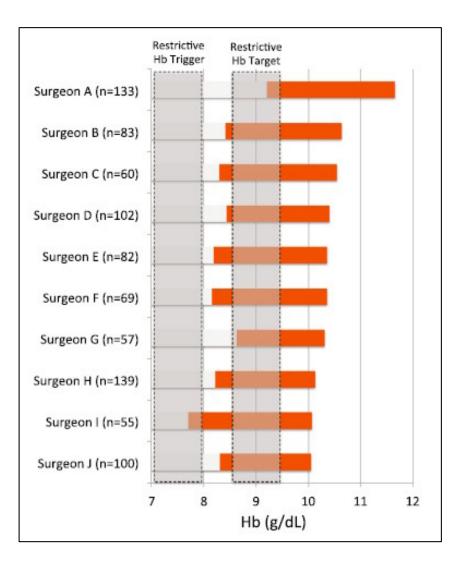


- Horizontal bars:
 - left edge =
 mean lowest Hb (trigger)
 - right edge =
 mean last Hb (target)
- Vertical shaded columns: ranges for Hb trigger & target (taken from recommended evidence based guidelines)





Frank et al. (2013)



Conclusion –
 can effectively educate clinical
 staff on their transfusion practices
 and improve blood use.

South West region



- 17 NHS trusts
- 5 have WinPath or LabCentre LIMS
- CliniSys approached at BBTS annual conference (Oct. 2013)
- Meeting with CliniSys rep.s (Jan. 2014)



South West 'project'



- PathManager required
- Patient number (hospital/NHS) as common identifier
- Pre-transfusion Hb nearest chronological
- Transfusion 'episodes' rather than units
- Post transfusion Hb nearest chronological
- Patients who have either a pre or a post Hb included



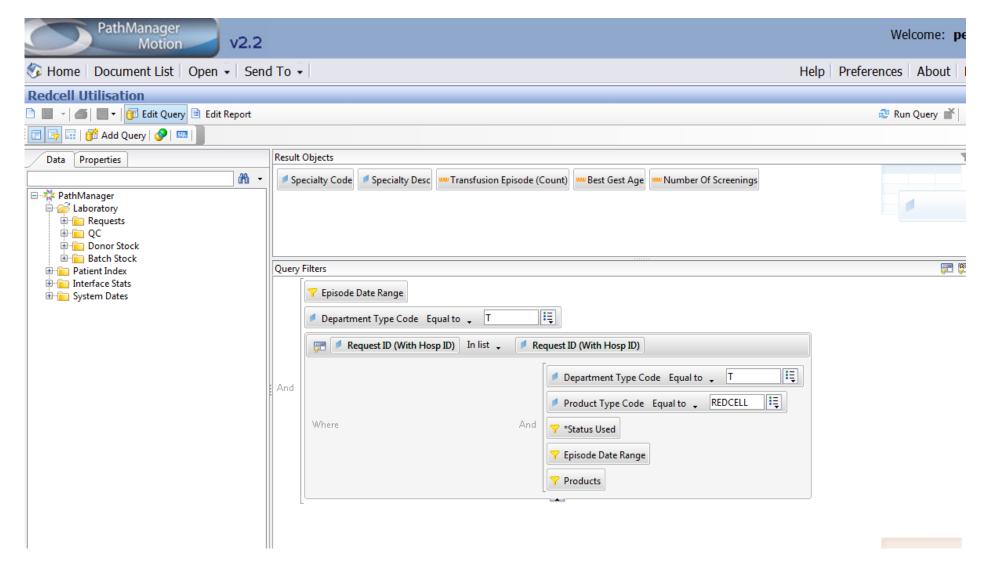
Supplementary Support Sheet



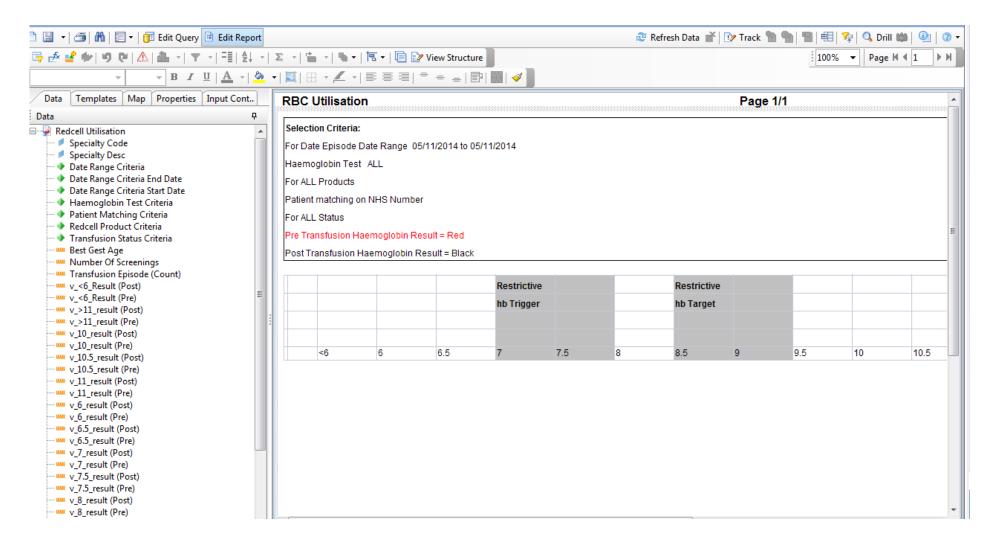
RedCell Utilisation				
Publication Date:	07 Nov 2014	Version:	2.1, 2.1 SP1, 2.1 SP2 2.2, 2.2 SP1, 2.2 SP2 2.3	
Products Affected	PathManager PathManager Motion			
Disciplines Affected	Blood Transfusion			

CliniSys has created hard coded version of the RBC Utilisation reports (WinPath and LabCentre) to allow existing PathManager customers (versions 2.1 onwards) to run these reports.

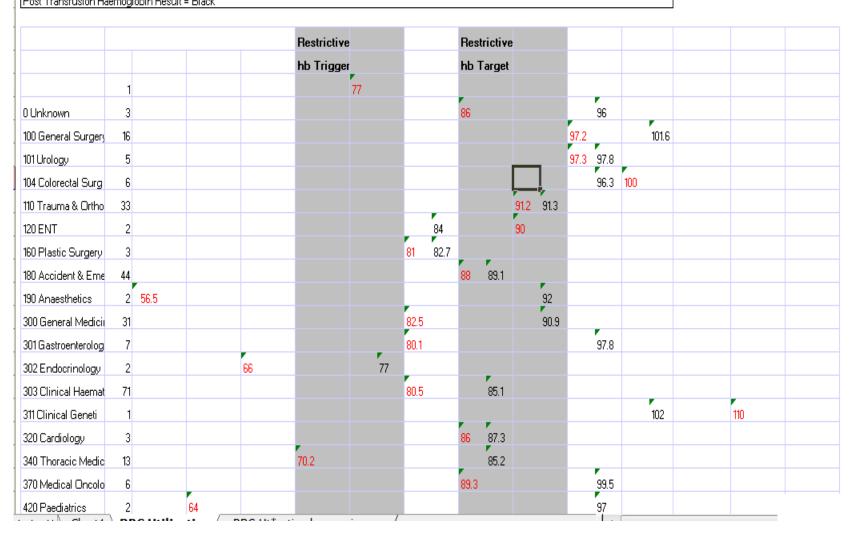








Selection Criteria: For Date Episode Date Range 01/01/2015 to 31/01/2015 Haemoglobin Test HGB Haemoglobin For ALL Products Patient matching on NHS Number For ALL Status Pre Transfusion Haemoglobin Result = Red Post Transfusion Haemoglobin Result = Black



Specimen Numl	Surname	Forename	Episode Date & Time
0015T000762	X	X	10/01/2015 22:20

0 Unknown

Specimen Numl	Surname	Forename	Episode Date & Time
0015T000205	Χ	X	05/01/2015 09:03
0015T000964	X	X	13/01/2015 16:52
0015T001711	X	X	22/01/2015 16:43

100 General Surgery

Specimen Numl	Surname	Forename	Episode Date & Time
0015T000062	X	X	01/01/2015 16:29
0015T000129	X	X	02/01/2015 15:45
0015T000248	X	X	05/01/2015 09:39
0015T000336	X	X	05/01/2015 20:43
0015T000348	X	X	06/01/2015 10:06
0015T000348	X	X	06/01/2015 19:53
0015T000485	X	X	07/01/2015 11:50
0015T000613	X	X	08/01/2015 16:04
0015T000638	X	X	08/01/2015 20:29
0015T000638	X	Χ	09/01/2015 17:36
0015T000664	X	X	09/01/2015 11:53
0015T000806	X	X	12/01/2015 09:57
0015T001011	X	X	14/01/2015 11:19
0015T001018	X	X	14/01/2015 12:57
0015T001865	X	X	25/01/2015 03:08

101 Urology