Transfusion in The Elderly

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Consent

• Aetiology?*

• Now?

• Bleeding or bled?

• Alternatives?

• Stable or not?

• What will I measure?

• What is the need?

• What end points?

• What are the risks?

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Acute Medicine, Not...

• Surgical patients

• Sepsis

• ITU

• MI



From: Outcomes Using Lower vs Higher Hemoglobin Thresholds for Red Blood Cell Transfusion

JAMA. 2013;309(1):83-84. doi:10.1001/jama.2012.50429

	30-d Mortality						
	Lower Hemoglobin Threshold		Higher Hemoglobin Threshold				
						Favors Lower	Favors Higher
	Events,	Total,	Events,	Total,	Risk Ratio	Hemoglobin	Hemoglobin
Source	No.	No.	No.	No.	(95% CI)	Threshold	Threshold
Blair, 1986	0	26	2	24	0.19 (0.01-3.67)		
Bracey, 1999	3	215	6	222	0.52 (0.13-2.04)		_
Bush, 1997	4	50	4	49	0.98 (0.26-3.70)		
Carson, 1998	1	42	1	42	1.00 (0.06-15.47)		
Carson, 2011	43	1009	52	1007	0.83 (0.56-1.22)		
Foss, 2009	5	60	0	60	11.00 (0.62-194.63)	_	
Hajjar, 2010	15	249	13	253	1.17 (0.57-2.41)	·	•
Hebert, 1995	8	33	9	36	0.97 (0.42-2.22)		
Hebert, 1999	78	418	98	420	0.80 (0.61-1.04)		
Lacroix, 2007	14	320	14	317	0.99 (0.48-2.04)	_	_
Lotke, 1999	0	62	0	65	NA		
Overall random effects model Heterogeneity: $I^2 = 0\%$ Test for overall effect: $P = .10$					0.85 (0.70-1.03)	005 0.1	10 200
					0.		o (95% CI)

Figure Legend:

Date of download: 9/9/2013

30-Day mortality was evaluated in 4975 patients included in 11 of 19 trials. Adapted from Analysis 3.2 in Carson JL, Carless PA, Hebert PC. Transfusion thresholds and other strategies for guiding allogeneic red blood cell transfusion. Cochrane Database Syst Rev. 2012;4:CD002042. doi: 10.1002/14651858.CD002042.pub3

Figure 2.1:
The number of incidents by specialty for the three year period 2010 to 2012 (n=3956)

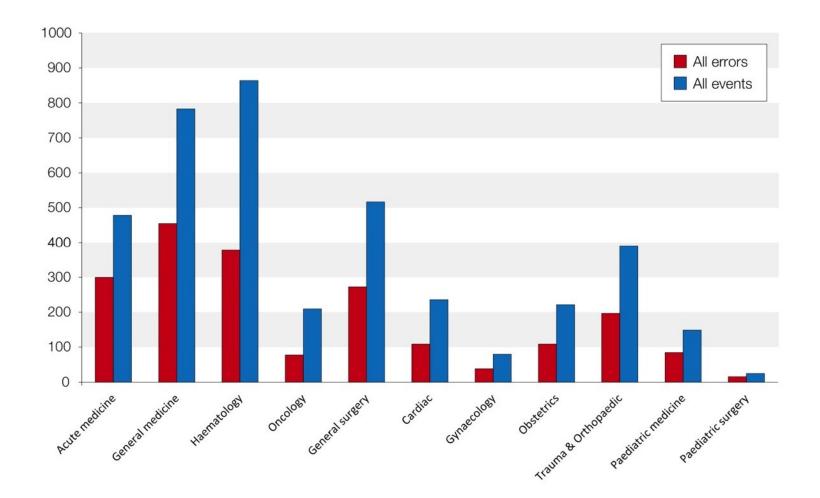
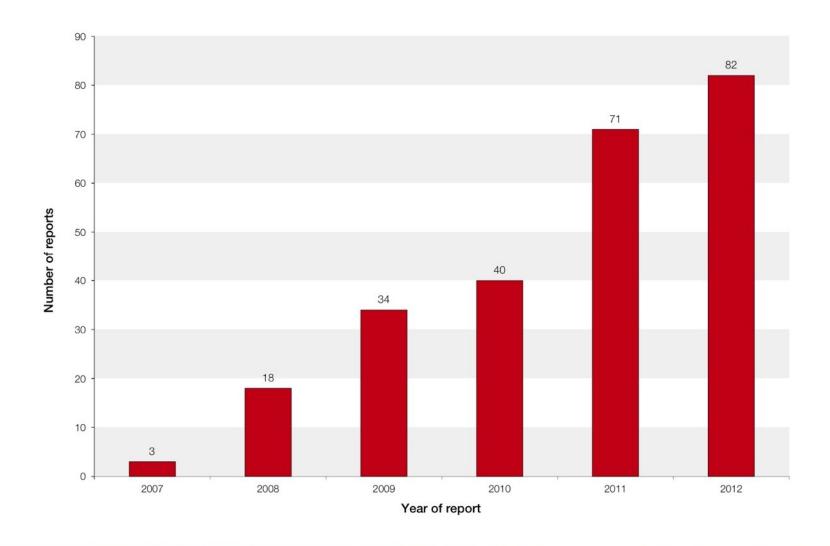


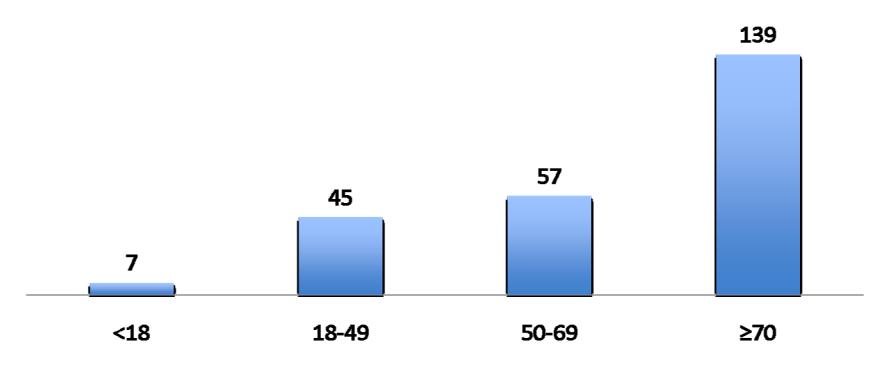
Figure 25.1:

Number of cases of TACO reported to SHOT each year

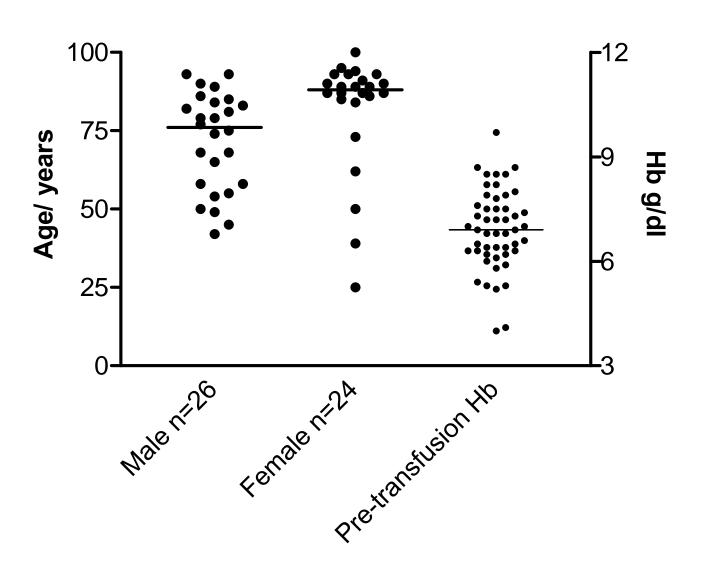


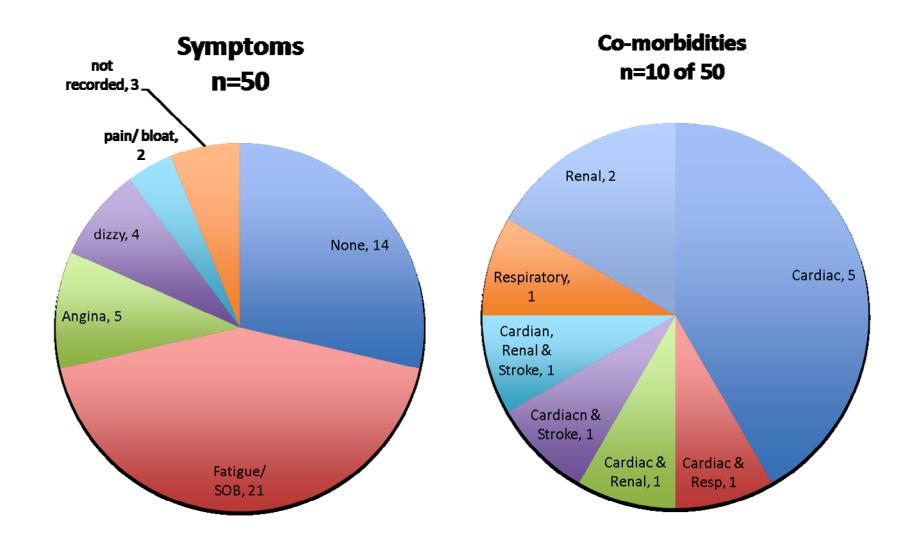
Transfusion Associated Cardiac Overload

Individual Cases of TACO Reported between 2007 – 2012 SHOT

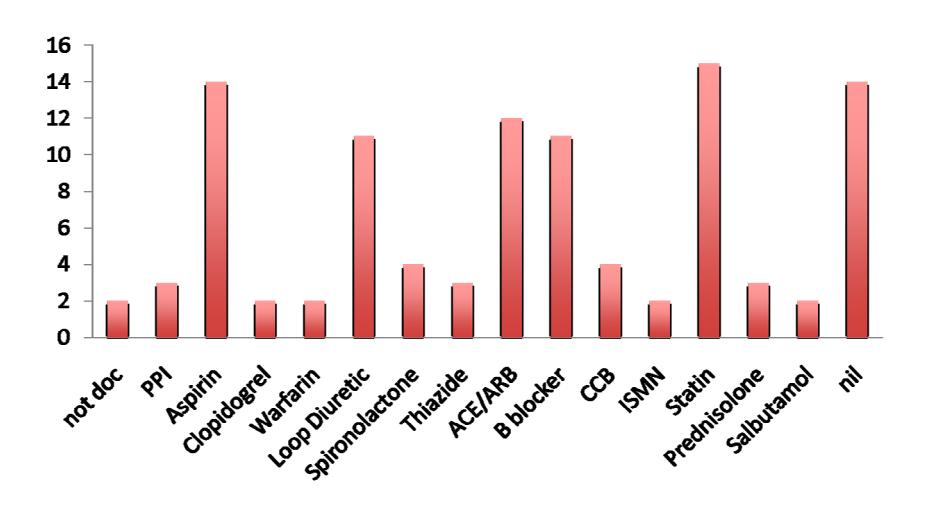


Patient characteristics

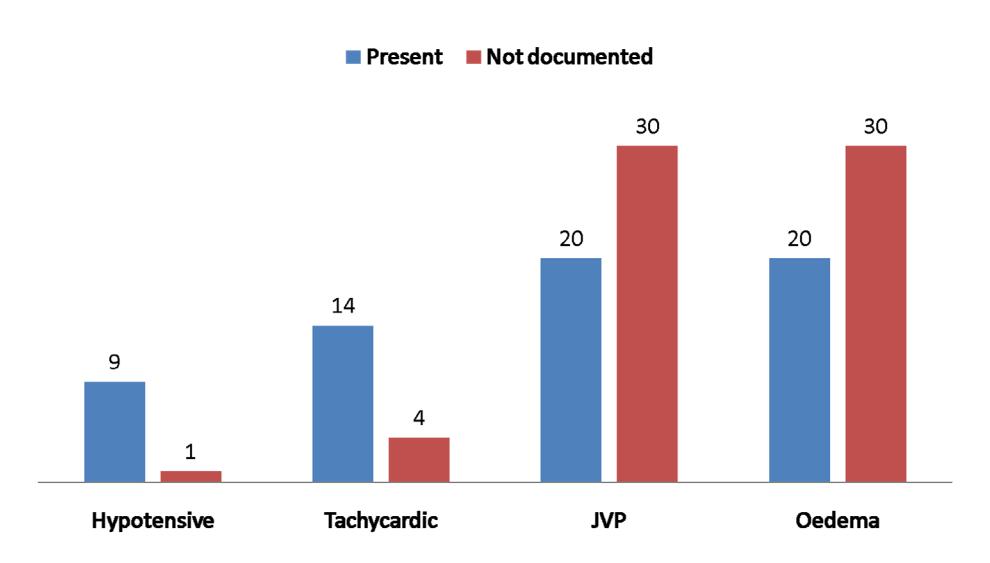




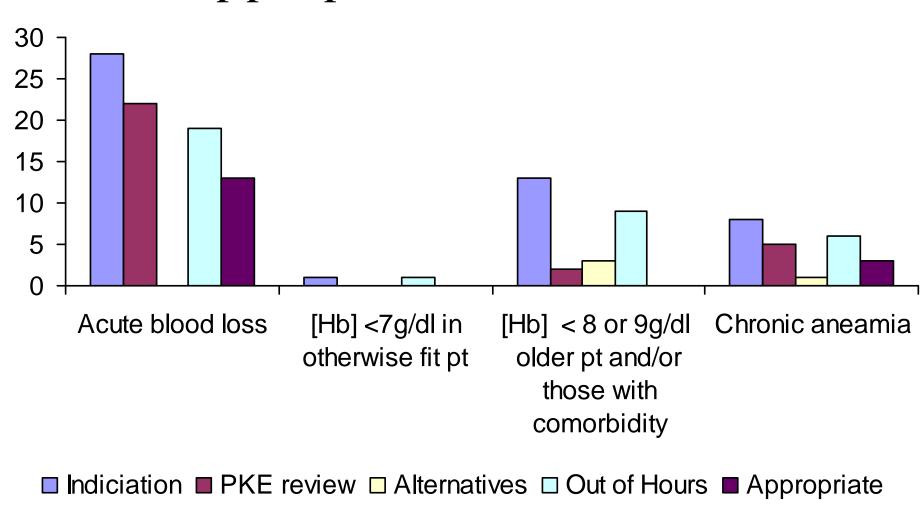
Medications



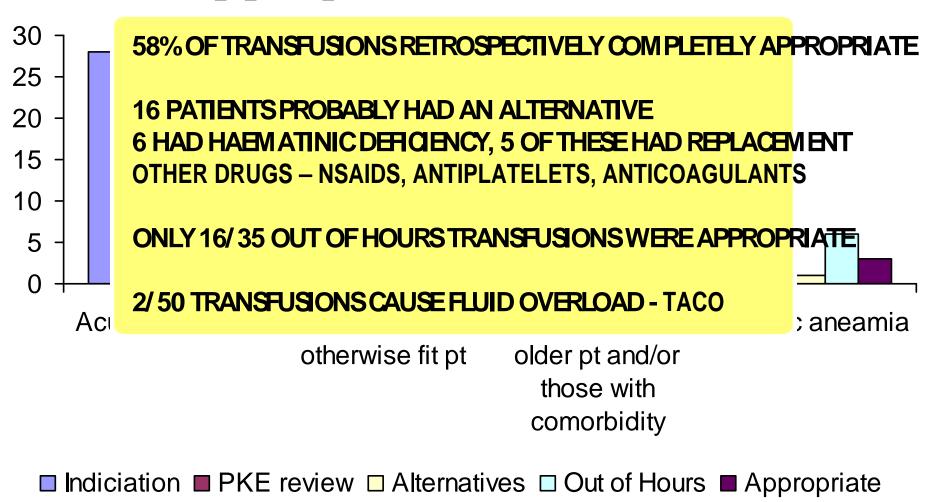
Clinical Examination



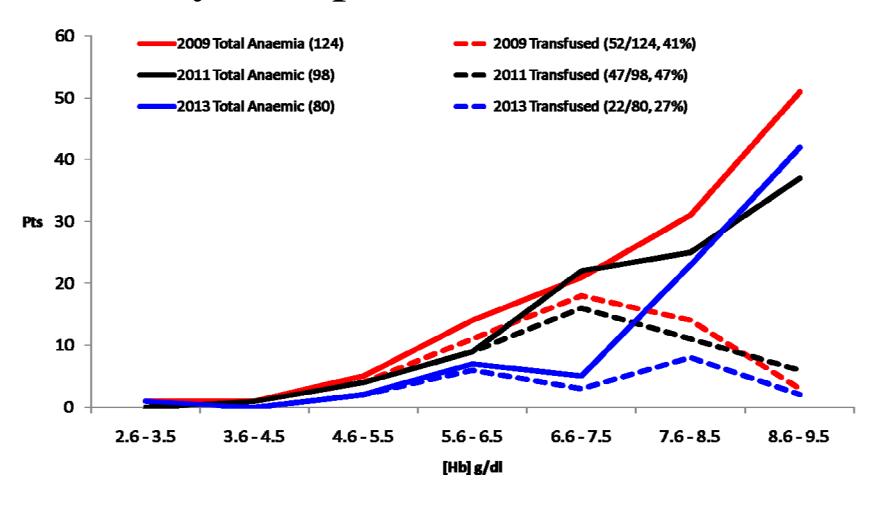
Alternatives & Appropriate out of hours?



Alternatives & Appropriate out of hours?



Anaemic & Transfused January to April 2009, 2011, 2013



Where Do You Transfuse?





Marginalize Risk

- Be familiar with the guidelines
- What is the path of least resistance?
- Can you consent the patient?
- What are the alternatives?
- Expect to be challenged?
- Right place & time
- Good Support
- Audit

Conclusions

Patient Blood Management

- •Clear Responsibility for the patient
- •Make the alternatives easy
- •Expect to justify the request
- •Best place & time
- Consent
- •Support
- •Audit

Thanks

- Carol Harvey
- Lesley Hough
- Paul Cervi
- Kimpreet Tithh
- Debra Medina-Jeronimo
- Saba Ahmed