1. Introduction
Thank you very much for offering to do this survey.
This survey is endorsed by the:
Society of Cardiovascular Anesthesiologists American Society of Extracorporeal Technology American Academy of Cardiovascular Perfusion International Consortium for Evidence-Based Perfusion Canadian Society of Clinical Perfusion
The purpose of this survey is to assess the impact of the STS/SCA Transfusion Guidelines 2007. You can access the Guidelines at:
http://www.sts.org/sections/aboutthesociety/practiceguidelines/bloodconservation/
Your answers to this survey will only be used in aggregate to report the effectiveness of the Guidelines, in publication or presentation. No personal identifying information such as name or e-mail address is retained with the responses.

2. Demographics
* 1. What is your Specialty?
j _' Cardiac Surgery
jn Anesthesiology
jn Perfusion
jn I have another role
2. Do you have a clinical leadership role that may have enabled you to lead discussion of implementation of the Transfusion Guidelines?
j _n Yes
jn No
* 3. Are you a Trainee or have you finished your formal training?
j _n Trainee
jn Completed training
* 4. How many years have you been in clinical practice since the end of your training?
j₁ 0-4 years
jn 5-9 years
jn 10-14 years
jn 15-19 years
jn 20 or more years
* 5. Last calendar year, how many cardiac surgical cases do you personally perform?
j _n <100
j ₁₀ 100-199
jn 200-299
jn 300 or more
* 6. What sort of institution do you perform the majority of your cases in?
jn Academic, University affiliated institution
jn Non-academic institution with academic affilitaion
jn Private institution without an academic affilitaion

* 7. How many on or off-pump, open chest, cardiac surgical cases did your institut perform in the last calendar year?	ion
jn <200 jn 200-399 jn 400-599 jn 600-799 jn 800 or more	
* 8. What country and zip / postal code do you practice in? ZIP/Postal Code: Country: 9. Please provide two initials of your institution. We ask for this so that response	S
from more than one institution can be grouped together.	

3. Did you read the Guidelines* 1. Did you personally read part or all of the published STS/SCA Transfusion Guidelines?

JUI	delines?
jn	Yes, the entire Guidelines
Ĵη	Yes, but only a portion of the Guidelines
j n	A summary of the Guidelines prepared by someone else
j n	No

4. Institutional Discussion		
* 1. Was there a formal Institutional discussion that resulted f	rom the guid	elines?
j _n Yes		
jn Don't know		
j₁ No		
2. Who participated in the discussion? Check all that apply.		
2. Who participated in the discussion: effect all that apply.	Yes	No
Surgeons	j tn	ja
Anesthesiologists	j n	jn
Perfusionists	jtn	ja
Blood bankers	jn :	jn
Nurses Others	j n	j:n ho
	j n	j n
3. Were any changes in clinical practice implemented?		
j _n Yes		
j∩ No		
jn Don't know		

Multi-disciplinary group		
1. Was an institutional multi-disciplinary group set up t the changes?	o monitor the effe	ctiveness o
j _∩ No		
j _m Yes		
j _∩ Don't know		
2. Who were members of the group? Check all that ap	ply. _{Yes}	No
Surgeons	ja	ja
Anesthesiologists	jn	jn
Perfusionists	jn	jn
Blood bankers	jn	j n
Nurses	j n	j tn
Others	j n	j n

6. Hemostasis assessment

Please answer regarding your Institutional practice.

Note:

Please answer "Already" if you were already performing the test

Please answer "New" if you stopped as a result of the guidelines.
Please answer "Unrelated" if you stopped, not as a result of the guidelines.

Please answer "No" if you were not performing the test

* 1. Was there a change in preoperative hemostatic assessment for cardiac surgery?

	Already	New	Unrelated	No
Routinely perform a screening preoperative bleeding time or equivalent test (e.g. PFA-100) in	ko	jn	ko	İn.
all patients.		J	,	J
Routinely perform a screening preoperative bleeding time or equivalent test (e.g. PFA-100) in	m	m	m	ho
patients who have received preoperative antiplatelet drugs.	J	J · ·	J	J
Routinely perform another laboratory screening assessment of platelet or hemostatic function	bo	bo	ko	to
(apart from PTT, INR and platelet count) in all patients	Jul	Jul) (1	Jei

7. Equipment and practice

Please answer regarding your Institutional practice.

Note:

Please answer "Already" if you were already doing this.

Please answer "New" if this was a change in practice resulting from the guidelines.

Please answer "Unrelated" if this was a change in practice not resulting from the guidelines.

Please answer "No" if you do not use the technology

* 1. Was there a change in the equipment or practices used for CPB?

	Already	New	Unrelated	No
Routine use of a heparin-coated or other surface-modified cardiopulmonary bypass circuit	j n	jn	j n	Jm
Routine use of intraoperative red-cell saving	j m	j n	j n	jn
Routine use of leukocyte reduction filters in the CPB circuit.	j'n	j n	j m	jn
Routine use of an open venous reservoir	j m	j n	j m	j m
Routine use of a closed venous reservoir	j n	j m	j m	jn
Routine use of a centrifugal pump	j m	j n	j m	jm
Routine use of acute normovolemic hemodilution	j n	j m	j m	<u>j</u> m
Routine use of lowered pump prime volume	j m	j m	j m	jn
Routine practice of retrograde autologous priming of the CPB circuit	jm	J m	j ra	<u>J</u> m
Routine use of an intraoperative point-of-care hemostasis or platelet function test in all patients who are bleeding. Note: this does not refer to any measurement of ACT or heparin level.	j n	Ĵ'n	j m	j'n
Routine use of an intraoperative point-of-care hemostasis or platelet function test in all patients. Note: this does not refer to any measurement of ACT or heparin level.	j a	j'n	j n	jn
Increased use of OPCAB surgery in order to decrease the need for transfusion	jm	j n	j n	j n
Routine use of heparin concentration monitoring in all cases	jn	j n	jn	Jm
Routine use of increased heparin concentrations or ACT levels	j m	j n	j m	jn
Routine use of decreased heparin concentrations or ACT levels	j n	j a	j m	jm

8.	You're almost done
	That was the toughest page. You're almost done.

9. Red Cell Transfusion

Please remember, please answer regarding your Institutional practice

Note:

Please answer "Already" if you were already doing this.

Please answer "New" if this was a change in practice resulting from the guidelines.

Please answer "Unrelated" if this was a change in practice not resulting from the guidelines.

Please answer "No" if you do not use the technique

* 1. Was there a change in your institutional red cell transfusion guidelines for cardiac surgery?

	Already	New	Unrelated	No
Reduced hematocrit or hemoglobin level cutoff for red cell transfusion	jn	Ja	j n	jn
Increased hematocrit or hemoglobin level cutoff for red cell transfusion	j m	J'n	j m	j n
Transfuse all patients with a hemoglobin <6g/dL at any stage of the hospital stay	j ta	j n	j m	j rn
Transfuse all patients with a hemoglobin <7g/dL at any stage of the hospital stay	j m	ј'n	j m	j n

2. Does your institution routinely use leukoreduced red cell transfusion for cardiac surgery?

jn	Always
jn	Sometimes
j'n	Never
m	Don't know

3. Does your Institution routinely use leukoreduced coagulation factors and platelets for cardiac surgery?

jn	Always
j m	Sometimes
j m	Never
m	Don't know

10. Aprotinin
Has your institution systematically examined the effect of Aprotinin withdrawal upon renal failure and mortality?
1. Has your institution systematically examined the effect of Aprotinin withdrawal upon renal failure and mortality?
j _n Yes
j _{∵∩} No
j _™ Don't know

11. Systematic examination of NovoSeven

Please answer regarding your Institutional practice

1. Was there a change in your institutional transfusion guidelines for administration of Factor VIIa (NovoSeven) during cardiac surgery?

Note:

Please answer "Already" if you were already doing this.

Please answer "New" if this was a change in practice resulting from the guidelines.

Please answer "Unrelated" if this was a change in practice not resulting from the guidelines.

Please answer "No" if you do not use Factor VIIa

			Unrelated		
We use Factor VIIa as a rescue therapy in the setting of excessive, life-threatening bleeding	ko	ko	ko	ko	
that is unresponsive to routine therapy?	J - 1	J	J	J	
We use Factor VIIa as a first-line therapy for bleeding	j m	jm	j m	jm	

2. Has your institution systematically examined the effect of Factor VIIa (Novoseven) upon renal failure and mortality?



12. NovoSeven assessment 1. What was the result of your Institutional assessment of NovoSeven use $j_{\mbox{\scriptsize fig}}$ NovoSeven has never been available at my institution \uparrow_{Ω} NovoSeven is no longer used at my institution $\uparrow_{\mbox{\scriptsize Ω}}$ NovoSeven use has been restricted by guidelines or other check-points $\uparrow \cap$ NovoSeven use has no restriction on use

13. Pharmacology

Please answer regarding your Institutional practice.

Note:

Please answer "Already" if you were already doing this.

Please answer "New" if this was a change in practice resulting from the guidelines. Please answer "Unrelated" if this was a change in practice not resulting from the guidelines.

Please answer "No" if you did not change your practice.

\star 1. Was there a change in your institutional pharmacologic guidelines for cardiac surgery?

	Already	New	Unrelated	No
Routine use of EPO to improve the efficacy of autologous predonation	j n	jn	jm	jn
Routine use of EPO and iron in anemic patients undergoing elective surgery	jn	jn	j m	jn
Routinely stop all oral antiplatelet agents (excluding aspirin) prior to elective surgery	jn	jn	j to	ja
Routinely stop clopidogrel or ticlodipine for more than four days prior to elective surgery	j'n	jn	j m	jn
Routinely continue aspirin until immediately prior to surgery in all patients	ja	ja	j so	ja
Routinely stop aspirin prior to elective surgery in patients without an acute coronary syndrome	j'n	jn	j n	j n
Routinely use DDAVP for bleeding	jn	jn	j to	j n
Routinely use an antifibrinolytic such as Amicar or Transexamic acid	jn	jm	j m	j n
Routinely use topical agents that employ bovine thrombin for hemostasis	ja	ja	j so	ja

14. Other Institutional Practices

Please remember, please answer regarding your Institutional practice

Note:

Please answer "Already" if you were already doing this.

Please answer "New" if this was a change in practice resulting from the guidelines.

Please answer "Unrelated" if this was a change in practice not resulting from the guidelines.

Please answer "No" if you do not use the technology

* 1. Was there a change in other institutional practices for cardiac surgery?

	Already	New	Unrelated	No	
Routinely transfuse all pump blood back to the patient, either directly or washed in a cell saver	j to	ĴΩ	j m	jm	
Routinely wash all shed mediastinal blood from postoperative chest tube drainage prior to reinfusion	jn	jn	j m	j n	

2. Was there a change in other institutional practices for cardiac surgery?

	Already	New	Unrelated	No
No longer routinely use PEEP as a routine therapy for bleeding	j n	jn	jn	jn
No longer routinely use intraoperative platelet or plasmapheresis	j m	j'n	j m	jn
No longer routinely use direct reinfusion of unwashed shed mediastinal blood from postoperative chest tube drainage	j n	ja	j m	Ja

15. Effectiveness

* 1. Were the changes your institution made effective in reducing overall transfusion rates?
jn Highly
j _n Somewhat
jn Not at all
jn Increased transfusion
jn I do not know
j_{Ω} We did not measure this
2. In your personal opinion, were the changes embraced by your specialty, at your institution?
j _n Highly
jn Somewhat
jn Not at all
3. In your personal opinion, were the changes embraced by other specialties, at you institution?
j _n Highly
j _∩ Somewhat
j_{\cap} Not at all

16. Thank you	
Thank you very much for your time and effort	