

"Canadian-Australasian Randomised Trial for Screening Kidney Transplant Recipients for Coronary Artery Disease."



Investigators' Meeting Canadian Society of Transplantation Banff, October 16, 2019





Where to find CARSK

• <u>www.carsk.org</u>

• Trial registration

The trial is registered at ANZCTR and Clinicaltrials.gov. ACTRN126160007364488 (<u>WWW.ANZCTR.ORG.AU</u>) NCT03674307 (<u>CLINICALTRIALS.GOV</u>)

• Trial funding

NHMRC Funded Clinical Trial Project Grant #1084454 CIHR Grant #389992

CARSK Publications



- CJASN How I treat series Jan/2019
 - <u>https://cjasn.asnjournals.org/content/14/1/112</u>
- Trial Protocol The American Heart Journal Volume 214 August 2019, Pages 175-183
- Trial Economic model AJKD in press

Hypothesis



- <u>After screening for wait list entry</u>, non use of cardiac screening tests is <u>non-inferior</u> versus the current standard care, which is screening all asymptomatic wait-listed patients for coronary artery disease (CAD) at regular intervals
- Centres were not willing to forgo screening prior to wait-listing

Inclusion Criteria: At least 18 years of Age No symptoms of active cardiac disease Actively Wait-listed For Kidney Only Transplant No previous extra-renal transplant Anticipated date of transplantation > 12 months from date of enrollment Anticipated to require cardiac screening before transplantation*





Patient eligibility

- Newly wait-listed and prevalent wait-list patients
- Patient must require a screening test before anticipated date of transplantation by your site's standard of care
- Suggested screening frequency
 - Diabetes, known coronary disease yearly
 - All others 2 years
- In general patients expected to undergo transplantation in < 12 months should not be enrolled

NOTE

- CARSK is testing the intention to screen
- Use the date of the last completed screening test to guide your determination of patient eligibility
- If the date of the next screening test by SOC (based on the last available screening test) is < than anticipated date of transplantation the patient is eligible to participate

Example -The following patient is eligible

- Actively wait-listed
- 55 year old Diabetic (mature onset)
- Blood group A, 0% cPRA
- On list for 1.3 years expected to receive an offer in next 10 months
- Asymptomatic
- Last MIBI 2017 Sept (i.e. 24 months ago)
- Even though the patient will undergo transplant within next 10-12 months, he is past due for a MIBI test by SOC
- If you are happy for him to remain on your from a clinical perspective he can be enrolled and randomized (i.e. you have to be happy with him potentially being randomized to no-screening)
- Caveat if he is randomized to regular screening the MIBI must be ordered right away and completed before the anticipated date of transplantation

Example -The following patient is eligible

- Actively wait-listed
- 50 year old male
- Blood group 0, 40% cPRA
- CABG 33 months ago
- On list for 2.5 years expected to receive an offer in next 12-15 months
- Asymptomatic, swimming 30 min 3x/ week
- Last MIBI none since CABG, had echo 1 year post CABG which showed preserved LV function
- Even though the patient will undergo transplant within next 12 months, he will be due for a MIBI test by SOC in 3 months (i.e. 36 months post CABG)
- If you are happy for him to remain on your from a clinical perspective he can be enrolled and randomized
- Caveat if he is randomized to regular screening the MIBI must be ordered to take place in 3 months so that it is done well before the anticipated date of transplantation

Example – This patient is not eligible

- 48 year male PKD blood group A, cPRA 0, started dialysis 18 months ago, not yet wait-listed, will likely be transplanted in next 4-6 mo
- Last MIBI 28 months ago, normal
- Asymptomatic, active
- If you are happy for him to be randomized without further testing, he could be enrolled...
- If randomized to regular screening he would need a MIBI right away
- But He lives in Northern community and it may be difficult to get MIBI in next 4 mo

Site	PI	REB	Contract	Target
1. Halifax	Amanda Vinson	Approved	Approved	
				100 (33/yr; 3/month)
2. UM Maisonneuve-Rosemont	Duy Tran	Conditional provincial	Approved	
		approval		50 (16/yr; ~1-2/month)
3. UM CHUM	Heloise Cardinal	Conditional provincial	Approved	
		approval		100 (33/yr; 3/month)
4. McGill	Marcelo Cantarovich	Approved	Awaiting MCG signature	
				100 (33/yr; 3/month)
5. Laval	Sacha DeSerres	Conditional provincial	In progress	
		approval		50 (16/yr; ~1-2/month)
6. UHN	Joe Kim	Conditional approval	Awaiting UHN signature	
				250 (83/yr; 7/month)
7. St Mike's	Ramesh Prasad	Close to final?	Awaiting STM review	
				200 (66/yr; 5-6/month)
8. Ottawa	Greg Knoll	Approved	Approved	
				200 (66/yr; 5-6/month)
9. St Joe's	Christine Ribic	Approved	Approved	
				150 (50/yr; 4/month)
10. London	Tony Jevnikar/	Approved	Approved	50(40) m 4.0 m 50
	Lakshman Gunaratnam			50 (16/yr; ~1-2/month)
11. Kingston	Khaled Shamseddin	In progress	Not started	50(10) m $10(month)$
10. Cooketahowan	Debut Meinre	Ammuna	America	50 (16/yr; ~1-2/month)
12. Saskatchewan	Rahul Mainra	Approved	Approved	50 (16/yr; ~1-2/month)
13. St Paul's Vancouver	Jag Gill/John Gill	Approved	Approved	250(116)(x; 10)(month)
				350 (116/yr; 10/month) 62 randomised to date
14. Vancouver General	Olwyn Johnston	Approved	Approved	oz randomised to date
14. vancouver General	Olwyn Johnston	Approved	Approved	300 (100/yr; 8/month)
				38 randomised to date
Potential International Sites				So randomised to date
15. Charite, Berlin, Germany	Klemens Budde	Potential		
16. Baylor Scott White, Austin, USA	Faiza Khan/ Bruce Kaplan	Potential		50 (16/yr; ~1-2/month)
17. George Wash U, DC, USA	Dominic Raj	Potential		
18. St George's, London, UK	Debu Bannerjee	Potential		
19. Singapore				
20. Taiwan				
ANZ & SPAIN Enrolling				
Australia	Steve Chadban & Tracey Ying	r et al		326 randomised to date
New Zealand	Helen Pilmore et al Edoardo Melilli		14 sites active	224 randomised to date
Barcelona				46 randomised to date
Totals				
21 sites active with 6 more to come	6 more international potential sites		Potential for 33 sites globally	696 randomised worldwide
in Canada = 27 sites			i sterilar for 66 sites globally	

CARSK Canada Goal – end of 2019

- To have every Canadian Site Active
- All sites to have enrolled 10 patients

Team Ethos/ Culture

- Horizontal not vertical
- In it for the patients/science



The moral peril of meritocracy

Thank You / Merci !!!!