

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





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





www.carsk.org

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
 - https://cjasn.asnjournals.org/content/14/1/112
- Trial Protocol The *American Heart Journal Volume 214* August 2019, Pages 175-183

Trial Economic model – AJKD in press



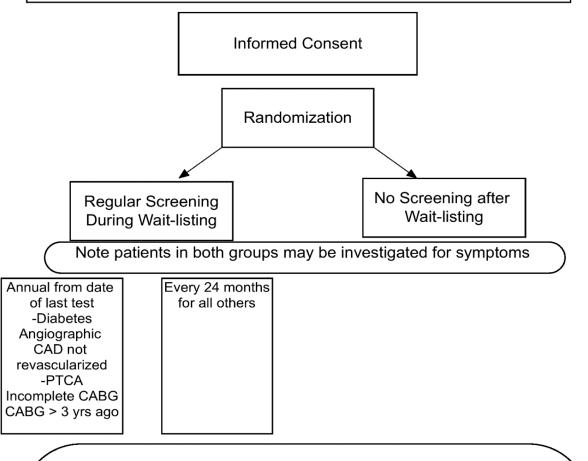


 After screening for wait list entry, non use of cardiac screening tests is non-inferior versus the current standard care, which is screening all asymptomatic wait-listed patients for coronary artery disease (CAD) at regular intervals

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*



Management of a postive non-invasive test irrespective of whether it was done for screening or symptoms will be managed as per center protocol



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	100 (00) 0 (
A MacCill	Mayoola Contourside	approval	Assoliting MOO signature	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	1-2// 1/ 1/2
40.1		<u> </u>		150 (50/yr; 4/month)
10. London	Tony Jevnikar/	Approved	Approved	50 (10 h m 1 0 h m a m th)
11 Vingston	Lakshman Gunaratnam Khaled Shamseddin	In progress	Not started	50 (16/yr; ~1-2/month)
11. Kingston	Krialed Shariseddin	In progress	Not started	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	30 (10/yt, 11 Z/month)
To. ot radio vallocavor	aug amzorm am	, ipprovod	7.5510404	350 (116/yr; 10/month)
				62 randomised to date
14. Vancouver General	Olwyn Johnston	Approved	Approved	
				300 (100/yr; 8/month)
				38 randomised to date
Potential International Sites				
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	0, 0, 1, 0, 7, 7,	<u> </u>		
Australia	Steve Chadban & Tracey Ying et al		14 sites active	326 randomised to date
New Zealand	Helen Pilmore et al			224 randomised to date
Barcelona	Edoardo Melilli 46 randomised to date			
Totals	6 mare interpetional notartial	oitos	Potential for 22 sites alaballa	606 randomicad warldwide
21 sites active with 6 more to come in Canada = 27 sites	6 more international potential	Siles	Potential for 33 sites globally	696 randomised worldwide
III Gariaua – 27 Siles				

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 !!!!