



<u>Focal</u> <u>Ablative</u> <u>ST</u>ereotactic <u>RA</u>diotherapy for <u>C</u>ancers of the <u>K</u>idney

Professor Shankar Siva, Peter MacCallum Cancer Centre













DISCLOSURES

- Research Funding to
 Institution
 - Varian Industries
 - Merck-Sharp-Dohme
 - Bayer Pharmaceuticals
- Speaker Honoraria / Advisory Board
 - Astra Zeneca
 - Telix Pharmaceuticals
- Al images
 - Mid-Journey[™]



🥑 🛛 @_ShankarSiva





The Standard of Care



Surgery is the standard of care.

But there are limited curative treatment options for medically inoperable patients.

Partial Nephrectomy





SABR as an alternative ticks all the boxes





Trial objective

To Investigate the efficacy of SABR in the first multicentre phase II trial of non-surgical therapy for primary RCC.

Primary outcome/hypothesis:

Evaluate local control after SABR; Local control ≤80% considered not worthy of proceeding to a future randomized controlled trial.

@ ShankarSiva



TransTasman Radiation Oncology Group







patients Recruited between Jul. 2016 and Feb. 2020

 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1

@_ShankarSiva

TROG 15.03 FASTRACK II TRIAL

Key Eligibility and Patient Characteristics

- Biopsy-confirmed diagnosis of primary RCC with a single lesion within a kidney
- Medically inoperable or high-risk for surgery
- Multidisciplinary decision has been made that active treatment is warranted
- Tumour not abutting bowel
- Tumour maximum dimension larger than 10cm





Planned SABR Treatment





FASTRACK II TRIAL

TROG 15.03

Clinical outcomes

at a median follow-up of 43 months

Local control rate 100%

Freedom from distant failure

Cancer specific survival

Kidney function loss



at a median follow-up of 43 months



TROG 15.03

FASTRACK II

TRIAL



at a median follow-up of 43 months



TROG 15.03

FASTRACK II

TRIAL



at a median follow-up of 43 months



TROG 15.03

FASTRACK II

TRIAL

eGFR, mLs/min (CDK-EPI)





at a median follow-up of 43 months







@ ShankarSiva

TROG 15.03 FASTRACK II TRIAL

Conclusions

SABR is effective in primary RCC.

- Exceptional cancer control rates
- No cancer-related deaths
- Modest renal function decline after treatment



Interpretation



SABR is now an established therapy for primary kidney cancer not suited to surgery.

These outcomes support the design of a future randomised clinical trial of SABR versus surgery for primary RCC.

@_ShankarSiva







Trial Management Committee David Pryor, Jeremy Ruben, Farshad Foroudi, Braden Higgs, Nathan Lawrentschuk, Mathias Bressel, Alex Car, Swetha Sridharan, Mark Sidhom, Ben Vanneste (MAASTRO)

Physics: Tomas Kron, Nick Hardcastle

S

The CASS Foundation

The Royal Australian

and New Zealand

College of Radiologists

Radiotherapy: Daniel Pham, Brent Chesson, Andrew Lim

Nuclear Medicine: Michael Hofman, Jason Callahan, Price Jackson

Imaging: Arian Lasocki, Eddie Lau, Bimal Kumar, James Korte

TROG: Bec Montgomery, Alisha Moore, Olivia Cook, Ryan Davey



varian