Progress Review and Trial Management

Investigator Meeting

12th September 2017 – Sheffield









Progress update and what's new?

- Patient identification, recruitment and randomisation
- Trial Procedures



Nephrol Dial Transplant (2016) 31: 255–261 doi: 10.1093/ndt/gfv346 Advance Access publication 30 September 2015

Multicentre randomized controlled trial of angiotensinconverting enzyme inhibitor/angiotensin receptor blocker withdrawal in advanced renal disease: the STOP-ACEi trial

Sunil Bhandari^{1,2}, Natalie Ives³, Elizabeth A. Brettell³, Marie Valente³, Paul Cockwell⁴, Peter S. Topham⁵, John G. Cleland⁶, Arif Khwaja⁷ and Meguid El Nahas⁷

¹Department of Renal Medicine, Hull and East Yorkshire Hospitals NHS Trust, Kingston upon Hull, UK, ²Hull York Medical School, East Yorkshire, UK, ³Birmingham Clinical Trials Unit, University of Birmingham, Birmingham, UK, ⁴Department of Renal Medicine, Queen Elizabeth Hospital, Birmingham, UK, ⁵Department of Renal Medicine, Leicester General Hospital, Leicester, UK, ⁶National Heart & Lung Institute, Imperial College London, London, UK and ⁷Sheffield Kidney Institute, Sheffield, UK

Correspondence and offprint requests to: Sunil Bhandari; E-mail: sunil.bhandari@hey.nhs.uk

Nephrol Dial Transplant (2016) 31: 171–173 doi: 10.1093/ndt/gfv351 Advance Access publication 6 October 2015



In Focus

'To block or not to block'; whether to continue renin-angiotensin-aldosterone system blockade in advanced chronic kidney disease

Marit D. Solbu^{1,2} and Alan G. Jardine¹

¹BHF Cardiovascular Research Centre, University of Glasgow, Glasgow, UK and ²University Hospital of North Norway, Tromsø, Norway

Correspondence and offprint requests to: Alan G. Jardine; E-mail: alan.jardine@glasgow.ac.uk

"there is considerable uncertainty about the use, and effects, of blockade of the RAAS, and specifically the possible benefits or adverse consequences of withdrawal of ACEi and ARBs, in patients with CKD stage 4 and 5"

"It is an important issue with clinically relevant goals, which will have an immediate impact on the way we manage patients with common renal conditions"

9797 patients

Nephrol Dial Transplant (2017) 1-11 doi: 10.1093/ndt/gfx072



Effect of renin-angiotensin-aldosterone system blockade in adults with diabetes mellitus and advanced chronic kidney disease not on dialysis: a systematic review and meta-analysis

Ionut Nistor^{1,2}, Johan De Sutter³, Christiane Drechsler^{2,4}, David Goldsmith⁵, Maria Jose Soler⁶, Charles Tomson⁷, Andrzej Wiecek⁸, Mihaela-Dora Donciu¹, Davide Bolignano^{2,9}, Wim Van Biesen¹⁰ and Adrian Covic¹

"The question of whether to prescribe or withhold RAASblocking agents in patients with DM and CKD stages 3–5 cannot be answered with confidence based on the available evidence...

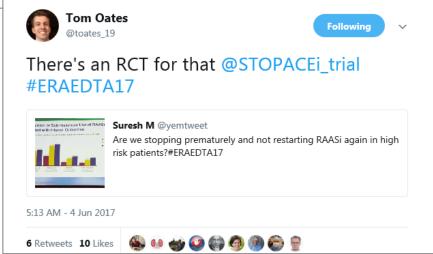
Fortunately, results of an ongoing trial may be available in the future"

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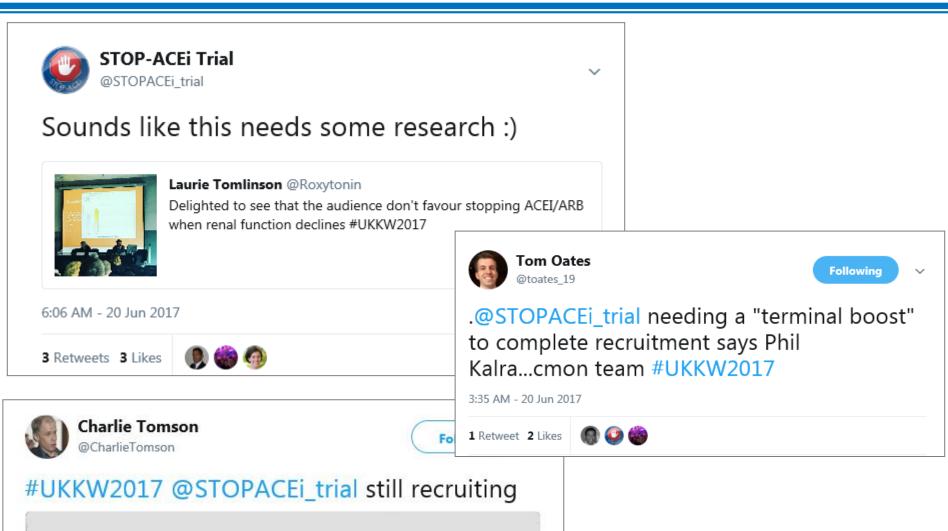




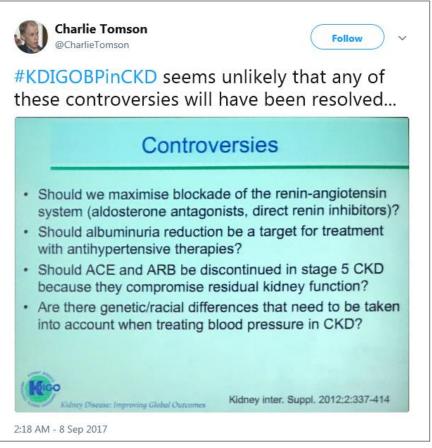




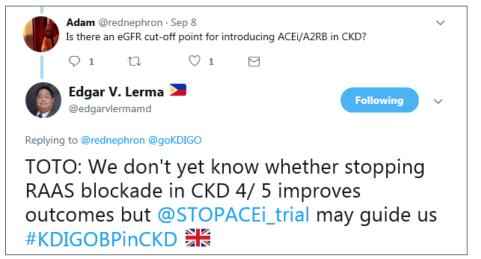
STOP-ACE: 313 Of 410 recruited









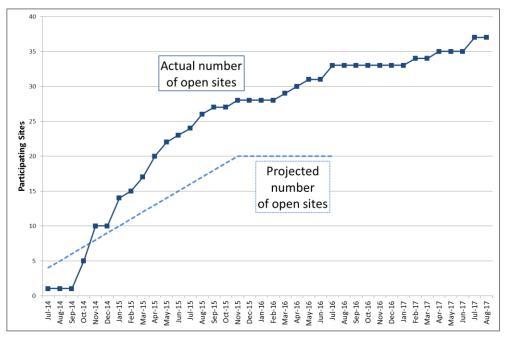






Site set up and opening

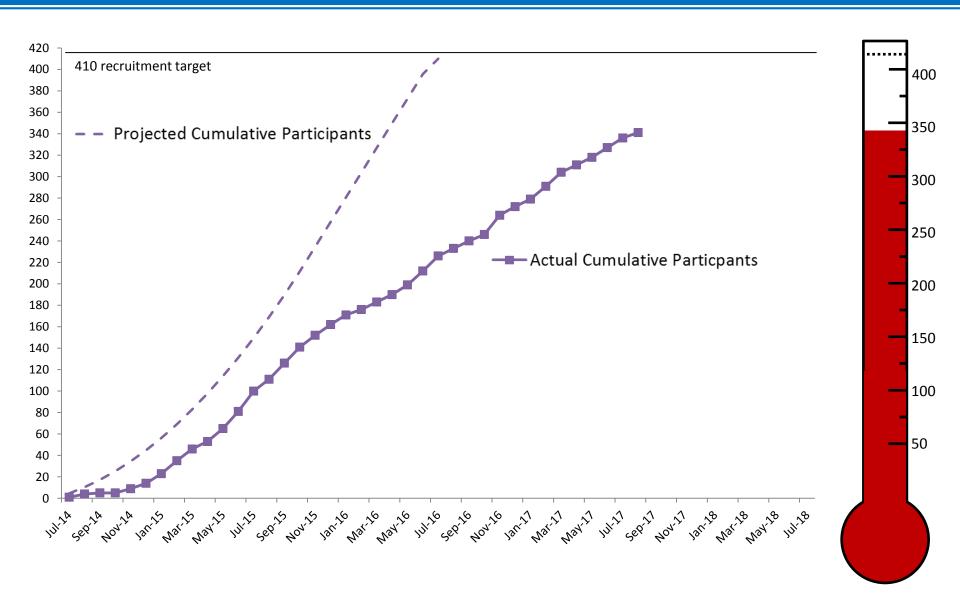
- 37 sites now open
- 2 more in set-up







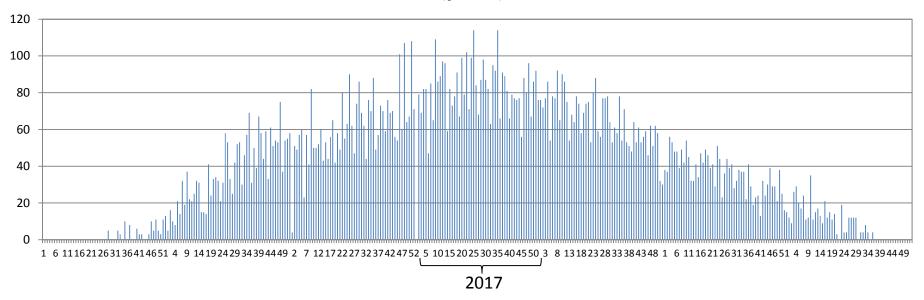
Recruitment

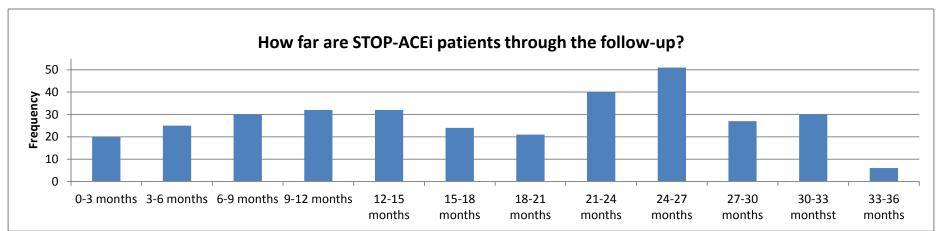




Data collection

Number of form (parts) due each week







Extension request

- Requested
 - +24 months (8 per month)
 - Changes
- Monitoring meeting December 2016
- NIHR have confirmed:
 - "supportive of the study and wished to see it continue"
 - "encouraged the project team to recruit as quickly as possible"
- Closely monitoring progress
 - Additional analysis
 - Additional reports
 - Further meeting to review in December 2017

Progress update and what's new?

- Patient identification, recruitment and randomisation
- Trial Procedures



Patient Recruitment

Identify potential participants										
Against inclusion/exclusion criteria	From medical records									
Invite potential participants to take part										
1-2 weeks before next clinic appointment	REC-approved Letter to Accompany PIS									
Record details of all participants considered for STOP-ACEi in the approach log	REC-approved Participant Information Sheet									
Discuss participa	tion in STOP-ACEi									
At next clinic appointment	Discuss risks/benefits - equipoise									
Informed Consent Process										
Appropriately trained medically qualified staff Optional consents										

Final eligibility check

Appropriately trained medically qualified staff



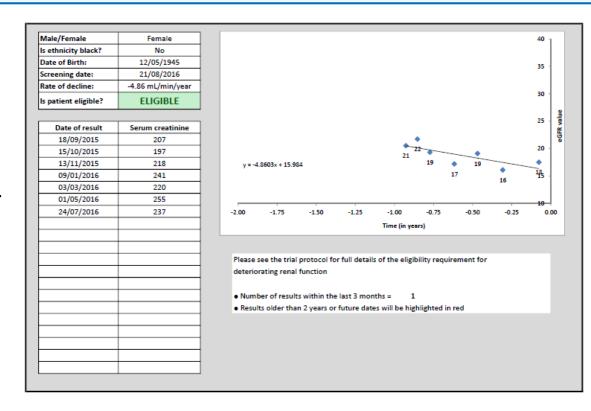
Main Inclusion criteria	Main Exclusion criteria
≥18 years	Uncontrolled BP (≤160/90 mmHg or more than 5 agents to control BP)
Advanced (stage 4 or 5) CKD	On dialysis or had transplant
Progressive deterioration in renal function (fall in eGFR of >2ml/min/year, confirmed using the eGFR decline calculator provided)	Unsuitable for trial due to prognosis/projected survival of less that 12 months
Pre-dialysis, with no previous transplant	MI or stoke in last 3 months
On ACEi and/or ARB ≥6 months with at least 25% of the maximum recommended daily dose on the day of consent	Immune-mediated renal disease that requires disease-specific treatment
Controlled BP (≤160/90 mmHg)	Participation in interventional research in last 6 weeks
3 months' specialist renal follow-up	Unable to comply with trial schedule and follow-up
Written informed consent	Unable to provide informed consent

• More details in the Protocol



Eligibility - eGFR decline

- Fall in eGFR of >2ml/min/year measured by linear regression.
- 1 reading within the last 3 months
- 3 readings per year needed for accuracy
- All readings within last 24 months
- No need to include all results, but omissions should be clinically justifiable
- Patient must be clinically in decline and pass the decline test





Eligibility - eGFR decline

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nine results. Please use this Ei trial.
i trial.
e for the STOP-ACEi trial.
Date:



Eligibility – doing a 'dry run'

Welcome, Marie Valente (MV975). Last Login date: 17-Aug-2016

STOP-ACEi

You are connected to: Live Canc | Choose a connection.... ▼ Logout Choose a connection.... Live Training

HOME

PATIENTS

EGFR CALCULATOR

ADMINISTRATION

HELP

TRIAL WEBSITE

Home

Welcome to the STOP-ACEi Online Randomisation Service

This site provides a secure entry form for baseline patient information. On completion the patient will be randomly allocated treatment. A patient trial number is also allocated which we will use in our correspondence to you. Confirmation of the allocation is automatically sent to the responsible clinician via email.

Click here to enter a patient into the trial.

If you A

any questions about the STOP-ACEi Trial please contact: STOPACEi@trials.bham.ac.uk or see the Trial Information Website

If you experience any problems or have questions about this online service please contact: bctu-webadmin@contacts.bham.ac.uk



Eligibility – doing a 'dry run'

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Final eligibility check

Appropriately trained medically qualified staff





MRC START sub-study



Hull and East Yorkshire Hospitals NHS



PARTICIPANT INVITATION AND INFORMATION SHEET

Multi-centre Randomised Controlled Trial of Angiotensin Converting Enzyme inhibitor (ACEi) / Angiotensin Receptor Blocker (ARB) withdrawal in advanced renal disease; The STOP-ACEI Trial.

Invitation to take part in this research study

Thank you for reading this information sheet about the \$TOP-ACEi trial; we would like to invite you to take part. Before you decide whether or not you would like to take part, we would like you to understand why the research is being done and what it would involve for you. Please take time to read the following information carefully and discuss it with others and your doctor if you wish. Do feel free to ask if there is anything that is not clear or if you would like more information. Take time to decide whether or not you wish to take part.

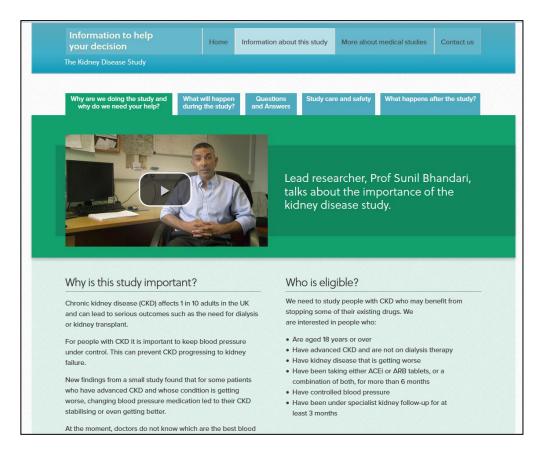
Part 1 tells you the purpose of this trial and what will happen to you if you take part.

Part 2 gives you more detailed information about the conduct of the trial.

To find out more about the study see:

www.stopacei.com







Randomisation





Progress update and what's new?

- Patient identification, recruitment and randomisation
- Trial Procedures



Trial visits and procedures

Trial visit number		1	Phone call	2	3	4	5	6	7	8	9	10	11	12	13
Visit month (± 2 weeks)	Screening	Baseline	Pho	3	6	9	12	15	18	21	24	27	30	33	36
Inclusion and exclusion criteria	Y	Y													
Informed consent / randomisation		Y													
Demographics: Date of birth, gender, ethnicity		Y													
Medical history including cardiovascular co-morbidity & CKD aetiology		Υ													
Smoking status / alcohol intake		Υ													
Height		Υ													
Weight / BMI		Υ					Υ				Y				Υ
Blood pressure		Y		Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Record ESA dose		Y		Y	Y	Υ	Υ	Υ	Y	Υ	Υ	Υ	Y	Υ	Υ
Record data from cardiac echo †		Y		Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Changes to anti-hypertensive / con-medication ‡		Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Compliance with the trial treatment allocation		Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Adverse event documentation		Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
						Routi	ne tes	sts							
eGFR and BCP*		Y		Υ	Y	Υ	Υ	Y	Υ	Y	Υ	Υ	Υ	Υ	Υ
FBC**		Y		Υ	Υ	Υ	Υ	Y	Υ	Y	Y	Υ	Υ	Y	Υ
Urinary PCR by early morning spot urine		Y		Υ	Υ	Y	Υ	Y	Υ	Y	Υ	Υ	Υ	Υ	Υ
CRP		Y					Υ				Υ				Υ
				ı	Α	dditic	nal te	ests							
Six minute walk test		Y					Υ				Υ				Υ
KDQOL-SF™ v1.3 Questionnaire		Y					Υ				Υ				Υ
12 Lead ECG		Y					Υ				Υ				Υ
Cystatin-C / NT proBNP / ACE / Renin		Y					Υ				Υ				Y
Serum and urine samples for biomarker analysis ***		Y					Υ								Υ



	What will be tested	Where analysed	When samples taken
Routine tests	Biochemical profile eGFR Full blood count Urinary PCR CRP	Locally, at your site.	Baseline Every 3-monthly trial visit (CRP taken annually)
Standard Trial Samples	Cystatin-C NT-proBNP ACE Renin levels	Centrally, at Hull lab	Baseline, Month 12, Month 24, Month 36
Optional Biomarker Samples	unknown biomarkers in future analysis	Centrally, at Hull lab	Baseline, Month 12, Month 36

- See protocol for details of BCP and FBC
- Centrally analysed samples
 - Prepare according to trial guide in site file
 - Store at -80°C until sent to central lab in Hull
 - BCTU to arrange transport approx. annually



Trial samples

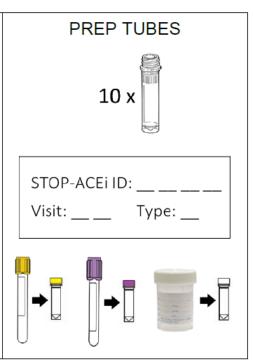
Preparing the tubes and labels

Please prepare the tubes and labels before taking any samples to avoid confusion. You will not be able to tell the difference between types of sample once they are separated so the tubes need to be labelled first. We recommend that you do this before the patient arrives.

- Please use the provided screw-cap bottles.
- You will need 4 x bottles for the standard trial samples and 6 x bottles for biomarker serum samples (= 10 bottles in total) for each visit.
- Label all bottles with the participant trial ID number, the trial visit and sample type (i.e. plasma, serum or urine) using the stickers provided.
- Put the label on the tube vertically so that the sample is visible from top to bottom on the other side of the tube.

Please do not write the hospital number or patient name on the bottles to prevent sharing patient identifiable information

 Use yellow caps for the serum samples and purple caps for the plasma samples to match the blood collection tubes. Use clear caps for urine samples





Sample Preparation

NB. Renin samples must be prepared and frozen within 1 hour of venepuncture.

	CLOT
Ĉ	SPIN
	ALIQUOT
	FREEZE



ID = Participant trial ID number

Trial samples

STOP-ACEi Freezer Log

Please update this log every time you put STOP-ACEi samples into the freezer. You will be asked to submit a copy of the log when you transport samples.

The log should be completed electronically, but you can print a hard copy to keep by the freezer if this helps.

Hospital: Hull Royal Infirmary Box number: 099

Box location (freezer and room no.): Research Freezer, Pathology department, HRI

T = Type of sample (i.e. serum, urine or EDTA plasma)

V = Trial visit. BL = baseline, 12 = 12month, 24 = 24 month, 36 = 36 month

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	T:	EDTA	T:	EDTA	T:	Serum	T:	Urine	T:	Urine	T:	Urine								
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KDQoL-SF™ Questionnaire

- Importance for the trial
 - Can't assess effect of trial treatment on patient wellbeing without input from the patient
 - Disease-specific
- Completed by participant
- Ideally alone to prevent influence
- RN can check for completeness or causes for concern
- Consider timing before uncomfortable assessments or randomisation
- Allow time While patient is waiting to be seen



Six-minute walk test

- Importance for the trial
 - Test the effect of the trial intervention on physical function
- Follow the trial guide (based on validated ATS guide)
- Identify a space
 - Measured
 - Consistently available
 - No obstructions
- Standardised script to follow
- Consider safety
- Consider timing patient at rest for ECG and BP



Six-minute walk test

There's a worksheet at the back of the trial guide.

Source Document Worksheet for STOP-ACEi 6MWT	
You can use this worksheet to help record the details of the 6MWT. NB Only the detail CRFs are required for the trial, but you can photocopy and use this for your source do	•
Trial No.: Assessment date: D D / M M / [YYY
Assessment point:	
Visit 1 (baseline) Visit 5 (month 12) Visit 9 (month 24)	Visit 13 (month 36)
People administering test:	
Is lap length 60 m? No Yes If no, lap length: m	
Clinical observations before test: e.g. BP, heart rate, participant fit to perform test etc.	
Test performed? No Yes	
Reason not performed: where applicable	
Lap counts:	
Distance of final partial lap:	
Total distance walked: m	
6 minutes completed? No Yes If no, stopped after:	min sec
Reason for stopping prematurely: where applicable	



Pharmacy considerations

- Choice of drugs used is at clinician's discretion
 - ACEi/ARB
 - Other antihypertensives
- Standard Pharmacy stocks used
- No need for additional pharmacy management
 - Accountability logs
 - Study-specific prescription
 - Normal checks and clinical governance









Casenote documentation

- See guidelines in ISF
- When patient is approached
 - Name of trial
 - Date approached about study or PIS given
 - Documented assessment of eligibility
 - Copy of PIS
 - Date of consent + record of discussion to show patient is 'informed'
 - Copy of signed consent form
 - Trial ID number AND arm they've been randomised to
 - Name of PI to contact about the study if any issues
- For each visit
 - Date and study visit number e.g. STOP-ACEi baseline visit
 - Any clinically relevant information e.g. medical history, changes to treatment/prescriptions, results of any medically relevant trial assessments
 - For AEs, a brief description of the event inc. start/stop dates and results of any clinically pertinent assessments made relating to the AE