

NIHR HTA funded RCTs comparing vein bypass and different endovascular revascularisation strategies for SLI

BASIL-2 – open and recruiting since September 2014

BASIL-3 – funded since 1 August 2015

Andrew W. Bradbury

Chief Investigator & Sampson Gamgee Professor of Vascular Surgery University of Birmingham, UK

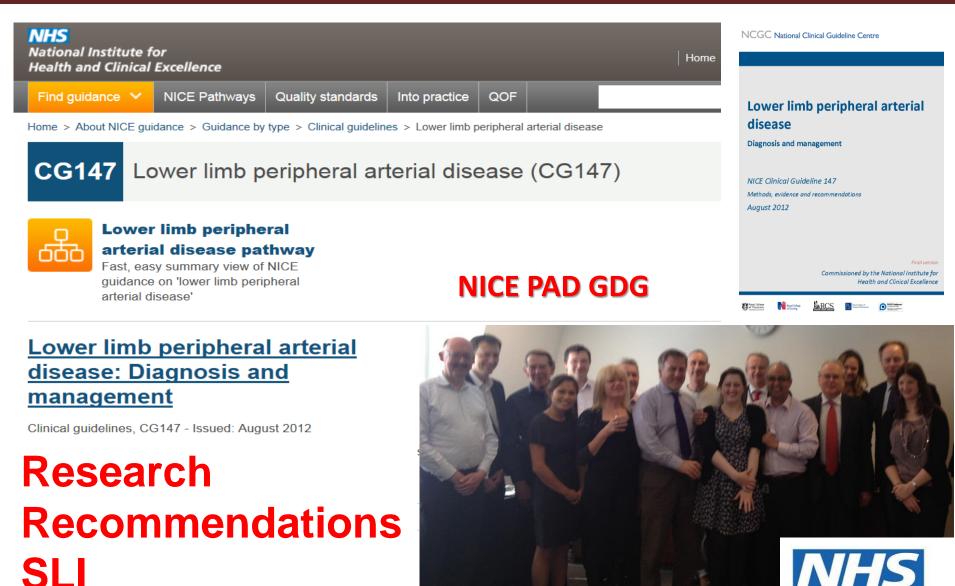








NICE PAD Guidelines 2012



National Institute for

Health and Clinical Excellence

This guidance has been incorporated into the following NICE

Applications to NIHR HTA

Multi-centre RCTs to compare the clinical and cost-effectiveness of:

- Vein Bypass vs Best Endovascular Treatment for SLI due to *infra-popliteal* disease (BASIL-2) (NIHR HTA Surgical Call / Board)
- POBA+/-BMS vs DCB+/-BMS vs DES for SLI due to femoro-popliteal disease (BASIL-3) (NIHR HTA commissioned research)



Heart of England





BASIL 2/3 Co-applicants

Southampton (Professor Shearman, Dr Odurny) St George's (Mr Hinchliffe and Professor Belli) Imperial (Professor Davies, Dr Burfitt) Oxford (Mr Perkins, Dr Uberoi) Birmingham (Mr Claridge, Dr Ganeshan) Leicester (Professor Naylor, Dr Adair) Hull (Professors Chetter and Ettles) Leeds (Professor Scott, Dr Patel) Sheffield (Professor Beard, Dr Cleveland) Newcastle (Professor Stansby, Dr Jackson) Scotland (Professor Brittenden, Dr Yadavaldi Mr Stuart, Professor Moss)









VSGBI

BSIR

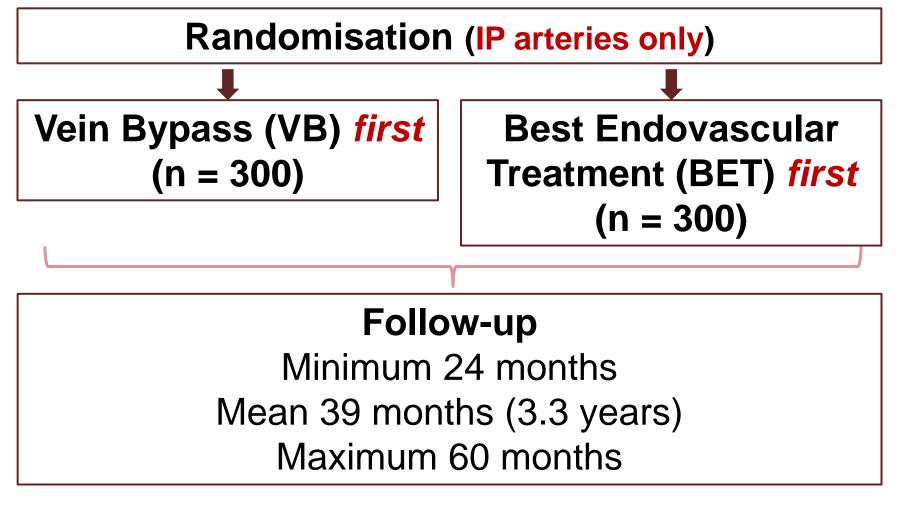
ESVS

B-2 Overview



- Detect a one-third reduction in AFS (HR = 0.66) (B1)
- 90% power at 5% significance level
- Allowing for 10% drop-out (1% in BASIL-1)
- Target recruitment: 600 over 3 years
- UK centres: 55
- Recruitment started: September 2014
- Currently open sites: 41 (24 recruited)
- Current recruitment: 95 patients
- Internal pilot criteria met (Monitoring Visit Sept 2015)
- Next target: 207 by May 2016 (3/16 November)

Randomisation



First = at point of clinical equipoise

Inclusion Criteria



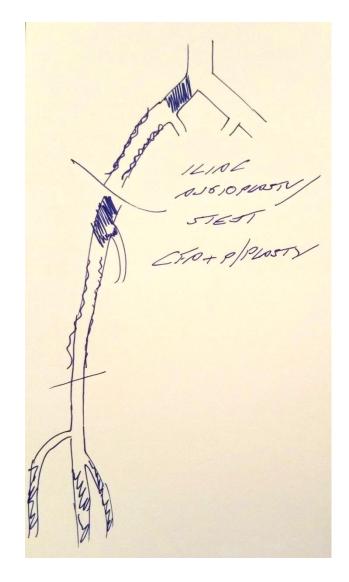
SLI due to IP +/- INFLOW disease

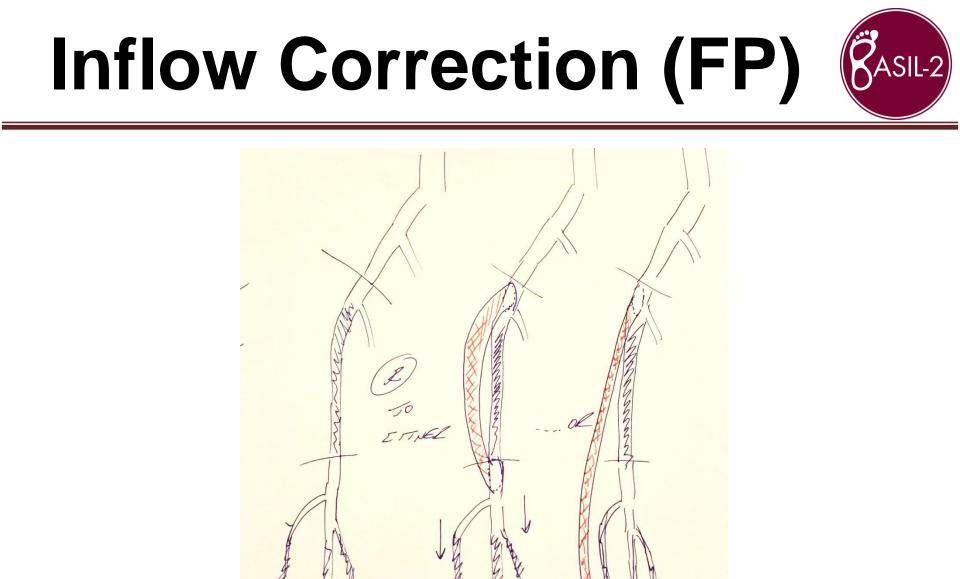
Judged by at least one VS and one IR to require early IP +/- INFLOW revascularisation in addition to BMT, foot and wound care

Have 'INFLOW' adequate to support IP VB and BET

Inflow Correction (AI)







Exclusion Criteria



Anticipated **life expectancy** < 6 months

Judged **unsuitable** for either of the two revascularisation strategies by the responsible consultant VS and IR

Insufficient English / translation facilities to guarantee informed consent

Unable to provide consent due to **incapacity** (as defined by Mental Capacity Act 2005 or Adults with Incapacity [Scotland] Act 2000)

Outcome Data Collection

Gareth Bate BASIL Senior Research Nurse

Outcomes



- ^{1°} Amputation free survival, AFS
- 2° Overall Survival (OS)
- 2° In-hospital and 30-day morbidity and mortality
- 2° Major Adverse Limb Events (MALE)
- 2° Major Adverse Cardiovascular Events (MACE)
- 2° Relief of ischaemic pain (VAS, medication usage)
- ^{2°} HRQL and functional status (EQ-5D-5L, SF-12, ICECAP-O, HADS, VascuQoL)
- 2° **Re- and cross-over intervention rates**
- 2° Healing tissue loss / minor amputations (PEDIS / WiFi)
- 3° Haemodynamic changes (patency)

Trial Exit and "Lost to Follow-up"

	8CTN: 27728889 8ASIL-2 Trial Version 2.0 (12th November, 2015)				
	BASIL-2 Exit	Form			
		DED OR WITHDRAWN CONSENT			
	BASIL-2 Tital Number 2				
	Patent Initias				
	Patient wit from the frail				
Has the	patient withdrawn?	Yes			
Date of	withdrawal: / /	(dd/mmm/yyyy)			
Rar Atte	has withdrawn from: (tick all than ndomised treatment endance at clinic mpletion of HRQoL lection of all NHS data	ıt apply)			
	ient been lost to follow-up? ive reason:	No Yes			

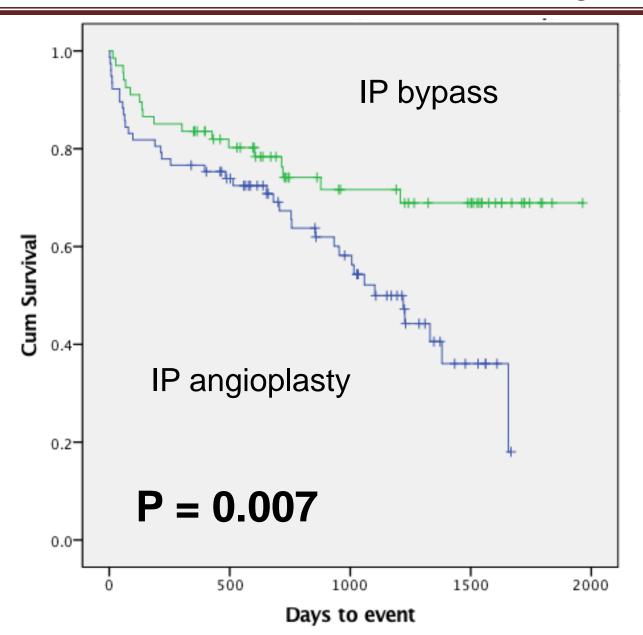
HEFT Data

Matt Popplewell Vascular Research Registrar

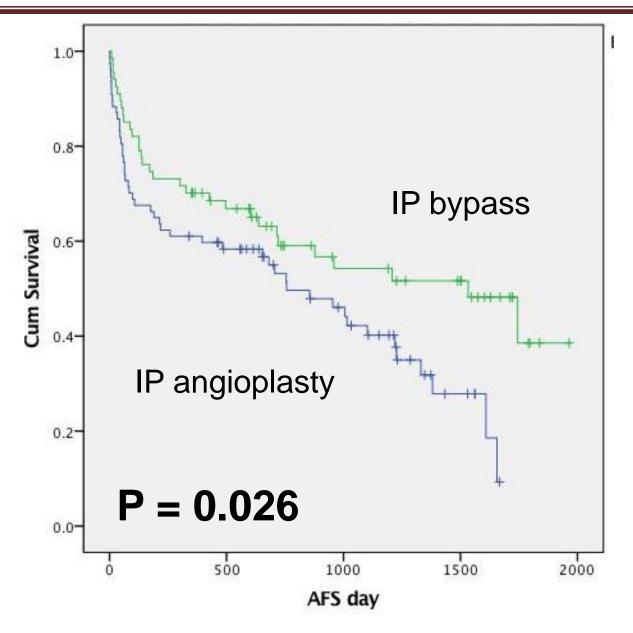
HEFT Retrospective Study

- Retrospective analysis of IP bypass (n = 67) and angioplasty (n = 77) in 142 consecutive SLI patients between 01-07-2009 and 30-06-2013 with at least 12 months follow up
- Primary outcome: amputation free survival
- Secondary outcomes:
 - All cause mortality
 - Length of hospital stay
 - Index admission
 - Out to 12 months

All cause mortality



Amputation-free Survival

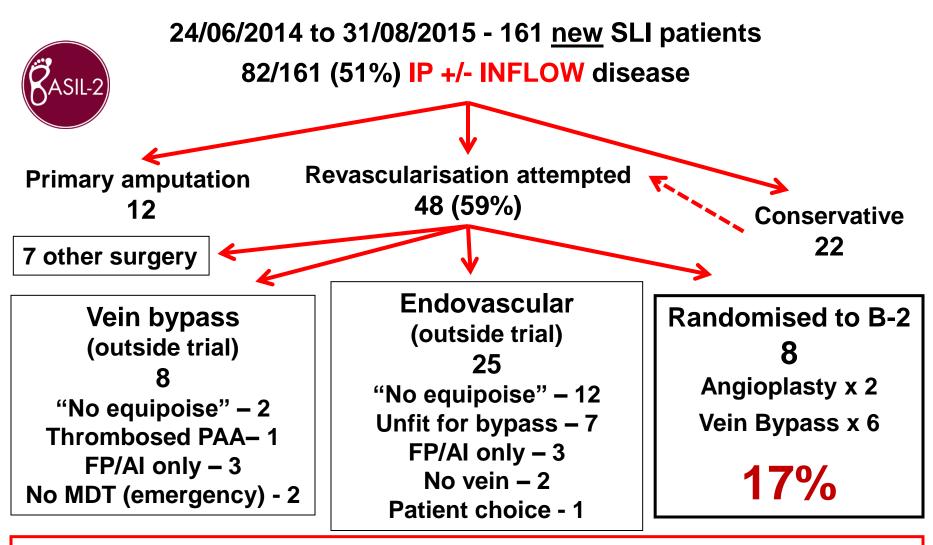


Length of Stay

	Angioplasty	Bypass
Index Admission	10.3 days	14.1 days
Over 12 months (including index)	21.8 days	22.6 days

No difference in re-intervention

BASIL - HEFT PCS



8 patients randomised per 10⁶ per year - 50 centres (50⁶) = 400 / year Need 520 in 2 years (260/year)

BASIL-2 Recruitment

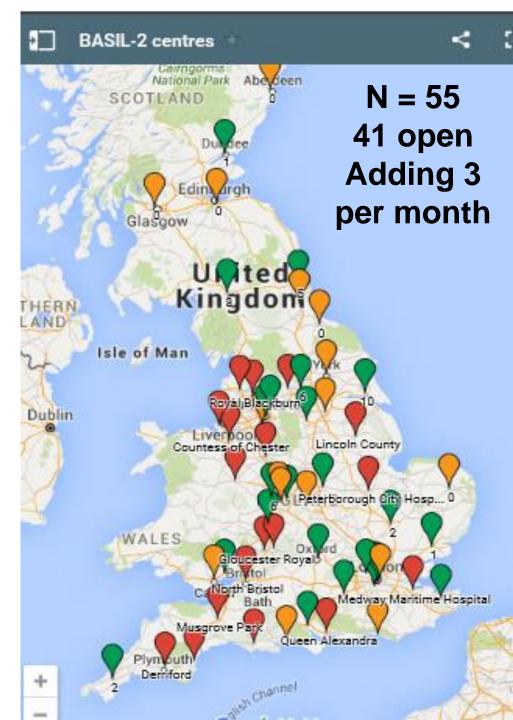
Hugh Jarrett Senior Clinical Trials Co-ordinator



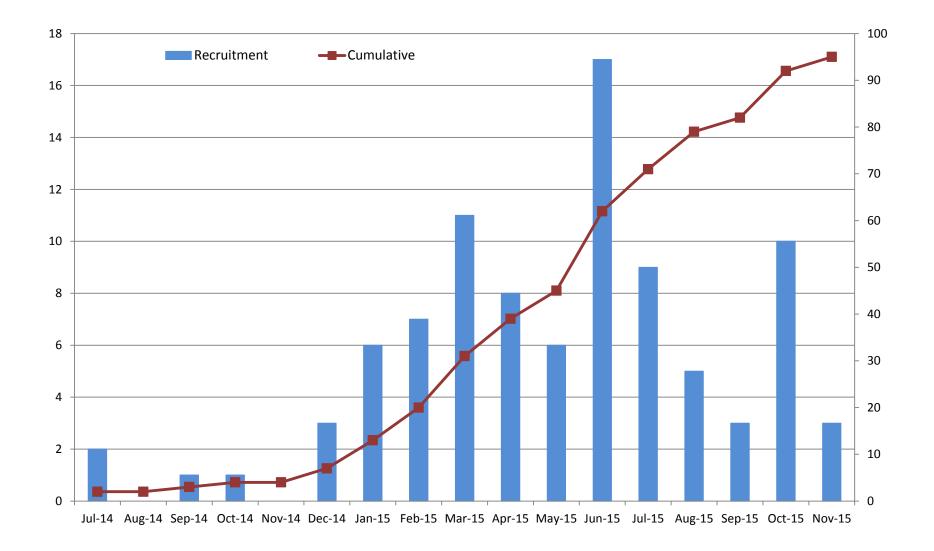






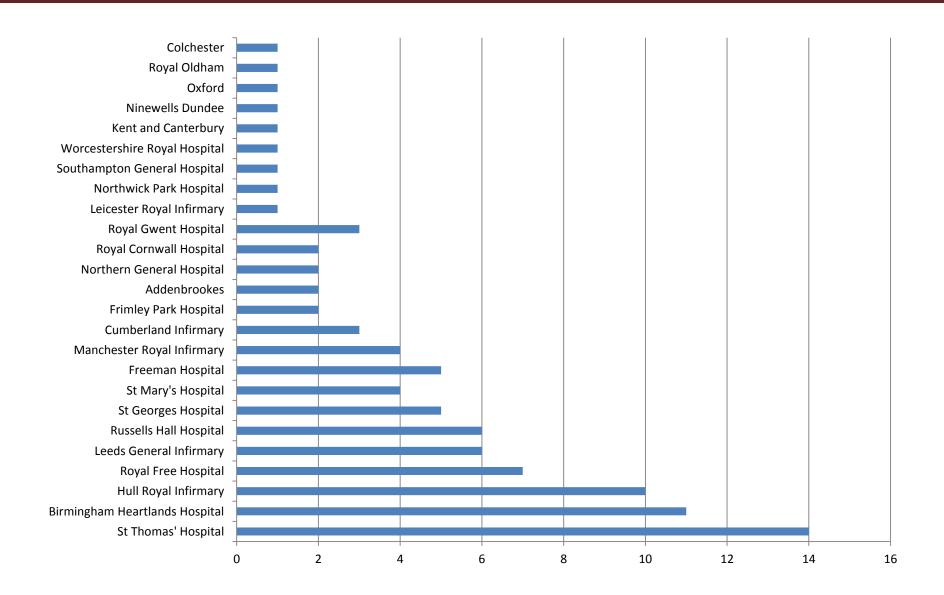


BASIL-2 Recruitment 09-11-2015



BASIL-2 Recruitment 09-11-2015

ASIL-2



BASIL-2 eCRFs



BASIL₂

HOME PATIENTS ADMINISTRATION HELP

Patients : Find patient : Patient Form

Patient form: 2001							
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Current Consultant			Dr Aru	Gan	eshan	▼	
Contact Centre (eg letters)			Birming	gham	Heartla	nds Hospital	
Contact Person (eg letters)			Dr Aru	Gan	eshan	▼	
Recruiting Centre			Birming	gham	Heartla	nds Hospital	
Recruiting Consultant Dr Arul Ganeshan 🔻							
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TRIAL WEBSITE

Assessments					
Status: All	•				
Assessment	Status				
Contact: Baseline	Received	View			
Medical stat: Baseline	Received	View			
In-pat/Daycase : No ref	Received	View			
In-pat/Daycase : New	Available	Add			
Bypass : New	Available	Add			
NonByps Vasc Surg : New	Available	Add			
BET : No ref	Received	View			
BET : New	Available	Add			
BET Segmental : No ref	Received	View			
BET Segmental : No ref	Received	View			
BET Segmental : New	Available	Add			
Amputation : No ref	Received	View			
Amputation : New	Available	Add			
Follow-Up: Baseline	Received	View			
Follow-Up: 1 month	Received	View			
Follow-Up: 3 month	Received	View			
Follow-Up: 6 month	Due Now	Add			
Follow-Up: 9 month	Due Now	Add			
Follow-Up: 12 month	Due Now	Add			
Follow-Up: 18 month	Not Due Yet				
Follow-Up: 24 month	Not Due Yet				
Follow-Up: 30 month	Not Due Yet				
Follow-Up: 36 month	Not Due Yet				
Exit : New	Available	Add			
PEDIS: baseline	Received	View			
PEDIS: 1 month	Received	View			
PEDIS: 3 month	Due Now	Add			
PEDIS: 6 month	Due Now	Add			
PEDIS: 9 month	Due Now	Add			
PEDIS: 12 month	Due Now	Add			



COMPETITION: Win Restaurant Vouchers!

To the end of October this month, then throughout each of November and December each time a recruiting centre recruits a patient to BASIL-2 they will get an entry into the monthly draw for £100 of restaurant vouchers of your choice to be shared by the winning team. The more patients you randomise in a calendar month, the more entries you get into the draw.

That's 3 prizes; 1 a month, from now until Jan 1st 2016.



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BASIL Trials @basil_trial The BASIL trials are vascular surgery trials in the lower limb	Tweets Tweets & repli	ıl · 5h	Who to	folloW · Refresh · View all Standard Life Invest @SLI × ▲ Follow

BASIL 3



Balloon vs Stenting in Severe Ischaemia of the Leg-3

Multi-centre RCT of clinical and cost-effectiveness of plain and drug coated balloon angioplasty (both +/- 'bail-out' bare metal stent) and primary drug eluting stent revascularisation strategies for SLI due to femoro-popliteal +/- infra-popliteal disease



UNIVERSITY^{OF} BIRMINGHAM



BASIL-3 Overview



- Sponsor: University of Birmingham
- NIHR HTA: £1.98m (awarded October 2014, deferred)
- XS NHS costs £600K (DCB, DES not NICE approved)
- Funding started 1 August 2015
- National Target: 861 patients over 3 years
- No of UK centres: 69 (?)
- Length of recruitment: 3 years
- Protocol, TSC, DMEC, REC, CRFs all done

Inclusion Criteria



SLI due to **FP +/- IP** disease

Judged by at least one IR and one VS to require **early** FP +/- IP **endovascular** revascularisation **in addition to** BMT, foot and wound care

Adequate 'inflow' to support **FP** +/- IP endovascular revascularisation (can be randomised with / after inflow procedure)

Judged suitable for FP PBA+/-BMS and DCB+/-BMS and DES

Exclusion Criteria



Anticipated life expectancy < 6 months

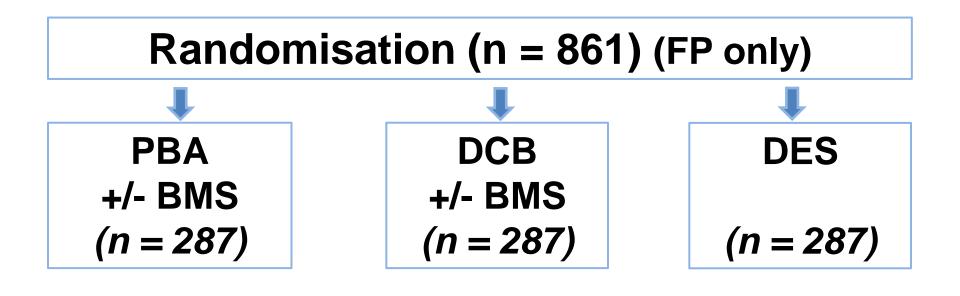
Judged unsuitable for any of the three endovascular revascularisation strategies

Insufficient English / translation facilities to guarantee informed consent

Unable to provide informed consent

Randomisation





Follow-up Minimum 24 months Mean 39 months (3.3 years) Maximum 60 months

Outcomes



- ^{1°} Amputation free survival, AFS
- 2° Overall Survival (OS)
- 2° In-hospital and 30-day morbidity and mortality
- 2° Major Adverse Limb Events (MALE)
- 2° Major cardiovascular events (MACE)
- 2° Relief of ischaemic pain (VAS, medication usage)
- ^{2°} HRQL and functional status (EQ-5D-5L, SF-12, ICECAP-O, HADS, VascuQoL)
- 2° **Re- and cross-over intervention rates**
- 2° Healing tissue loss / minor amputations (PEDIS / WiFi)
- 3° Haemodynamic changes (patency)

BASIL-3 Set-up

Hugh Jarrett Senior Clinical Trials Co-ordinator



Set-up / Running BASIL-3

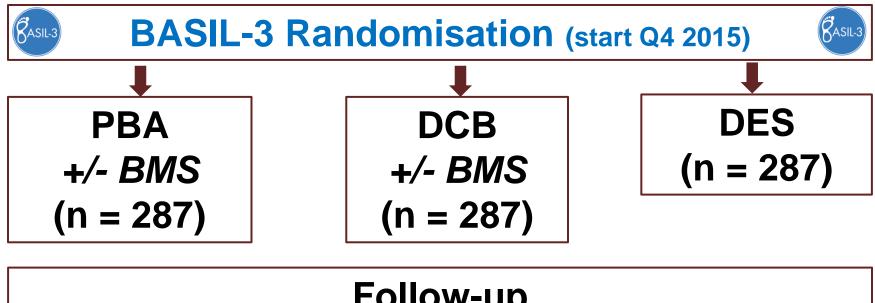
- No need for SF-12 contract sign off
- CSAs identical to BASIL-2
- GCP / CVs collected for many staff
- Delegation logs new PI sign off
- CRFs almost identical to BASIL-2
- Less follow-up than BASIL-2
 - (5 time points, not 9)

Progress to date

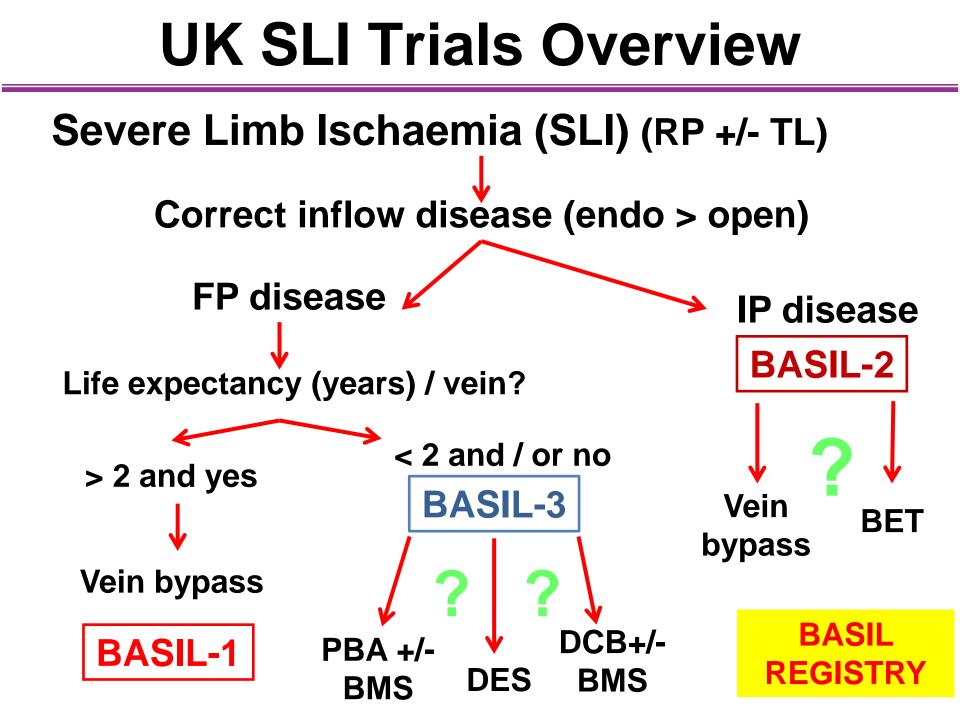


- Ethically approved
- On CSP (183761)
- Study-wide R&D approval granted
- Vast majority of BASIL-2 centres also participating in BASIL-3
- First site aims to open within weeks
- Several other sites well progressed in set-up





Follow-up Minimum – Mean – Maximum 24 - 39 - 60 months







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Thank you





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