## 2021

# The Vascular Priority Setting Partnership

## Setting the Agenda for UK Vascular Research

J.Vasc.Soc.G.B.Irel. 2021;1(Supp1):S1-S31 http://doi.org/10.54522/jvsgbi.2021.005





OF GREAT BRITAIN AND IRELAND

### Contents

— ı

\_

Foreword	2
Vascular PSP Top 10 Research Priorities	
ACCESS	5
AMPUTATION	6
AORTIC	7
CAROTID	8
DIABETIC FOOT	9
PERIPHERAL ARTERIAL DISEASE	10
SERVICE ORGANISATION	11
VENOUS	12
• WOUNDS	13
Background	
Vascular Conditions	14
<ul> <li>Why Set Priorities for Vascular Research?</li> </ul>	14
<ul> <li>What are the Benefits of a Priority Setting Process?</li> </ul>	15
<ul> <li>How did the Vascular Priority Setting Partnership agree the priorities?</li> </ul>	16
Summary Timeline	17
Special Interest Groups (SIGs)	18
Summary of PSP Process	19
Methods and Results	
<ul> <li>Phase One; Clinician Delphi Survey Summary.</li> </ul>	20
<ul> <li>Phase Two; Patient and Carer Survey with the James Lind Alliance.</li> </ul>	23
Phase Three; Final SIG Workshops: A combined approach.	27
Next Steps	29
References	30

The Vascular PSP Steering Group	31

The Vascular PSP | Report 2021

I \_\_\_\_

\_\_\_\_

1

### Foreword

### The Vascular Priority Setting Partnership (PSP)

The Vascular PSP provided an exciting opportunity to gather the unique perspectives of clinicians, patients and carers in identifying priorities for vascular research in the UK.

In 2016, the Research Committee of the Vascular Society of Great Britain and Ireland (VSGBI), chaired by Prof Chris Imray identified the need for a national specialty research strategy. This strategy, was developed with support from the Royal College of Surgeons of England Surgical Specialty Lead (Prof Ian Chetter) and included the formation of a Vascular Research Collaborative to initiate and steer a national vascular research priority setting process (Vascular PSP), guided by the James Lind Alliance (JLA).

This process provided an exciting opportunity to gather the unique perspectives of clinicians, patients and carers with direct experience of living with vascular conditions and in delivering vascular care - over 1800 research questions were submitted - a fantastic achievement!

Although there have been many improvements over the last 20 years, there are still unanswered questions regarding prevention, diagnosis and treatment of vascular disease. PSPs help researchers and policymakers effectively focus research and limited resources into areas that have the greatest potential health benefits, by systematically identifying gaps in evidence and establishing recommendations for research priorities.

Priority Setting Processes systematically identify gaps in research evidence.

99

### Foreword

### **A unique Priority Setting Process**

Unlike PSPs undertaken in other clinical specialties, the broad nature of vascular conditions led the Vascular PSP to establish nine special interest groups (SIGs), categorised by an overarching vascular condition. This was a crucial step in helping to manage the large number of responses and to ensure that each area retained their important research questions.

The result was that the Vascular Specialty has effectively conducted nine individual PSPs, producing separate lists of top 10 priorities for research in the following areas:

- Access
- Amputation
- Aortic
- Carotid
- Diabetic Foot
- Peripheral Arterial Disease
- Service Organisation
- Venous
- Wounds

The results of the Vascular PSP will help to set the agenda for vascular research for the foreseeable future.

It is envisaged that the results of the Vascular PSP will set the agenda for vascular research for the foreseeable future. This report presents the work of the Vascular PSP and summarizes the key steps taken towards achieving priorities for vascular research.

### Foreword

Vascular patients and healthcare professionals should now advocate these research priorities, helping to direct funding into areas of upmost need and greatest impact.





We now call on funding bodies and decision makers to direct funding towards these priorities and to increase investment in the delivery of new studies in these areas of utmost need.

We encourage researchers to focus their efforts on where potential impact is greatest by developing these priorities into new research studies.

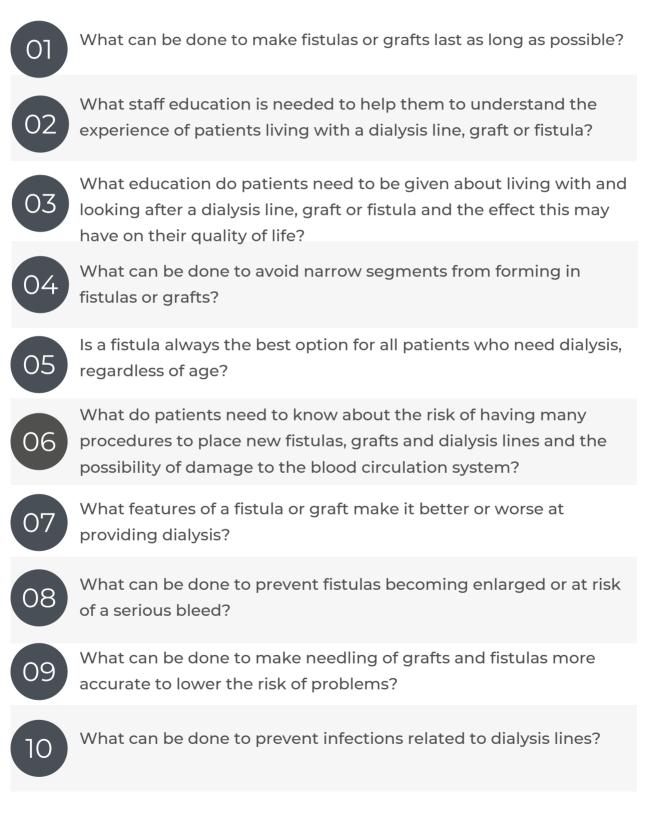
Finally, we urge all vascular patients and healthcare professionals to advocate the top 10s and to get involved in research that will ultimately positively impact vascular patients' quality of life and improve the services that surround their care.

A huge thank you to everyone who has been involved in the Vascular PSP.

Professor Ian Chetter Chair Research Committee VSGBI

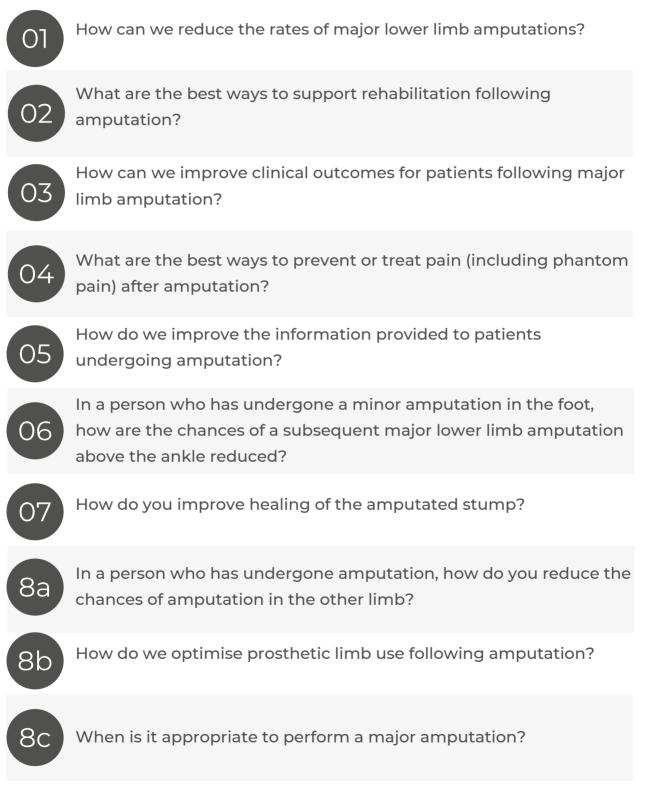
### Access

A final workshop was held 25.7.21 and brought together patients and health care professionals to jointly agree a priority list for vascular access research.



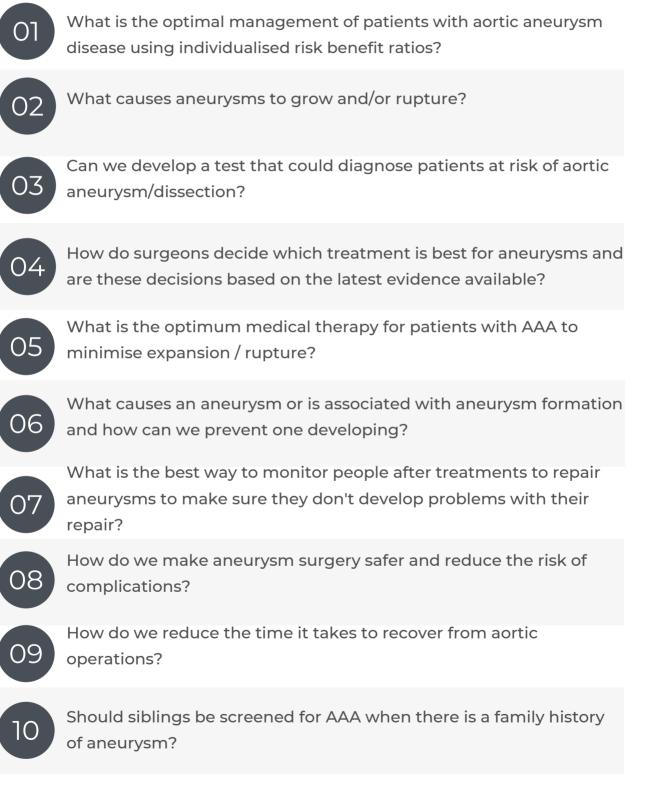
## Amputation

A final workshop was held 25.1.21 and brought together patients and health care professionals to jointly agree a priority list for amputation research. *Priorities 8a-c were ranked equal.* 



## Aortic

A final workshop was held 13.04.21 and brought together patients and health care professionals to jointly agree a priority list for vascular aortic research.



## Carotid

A final workshop was held 21.09.21 and brought together patients and health care professionals to jointly agree a priority list for carotid research.



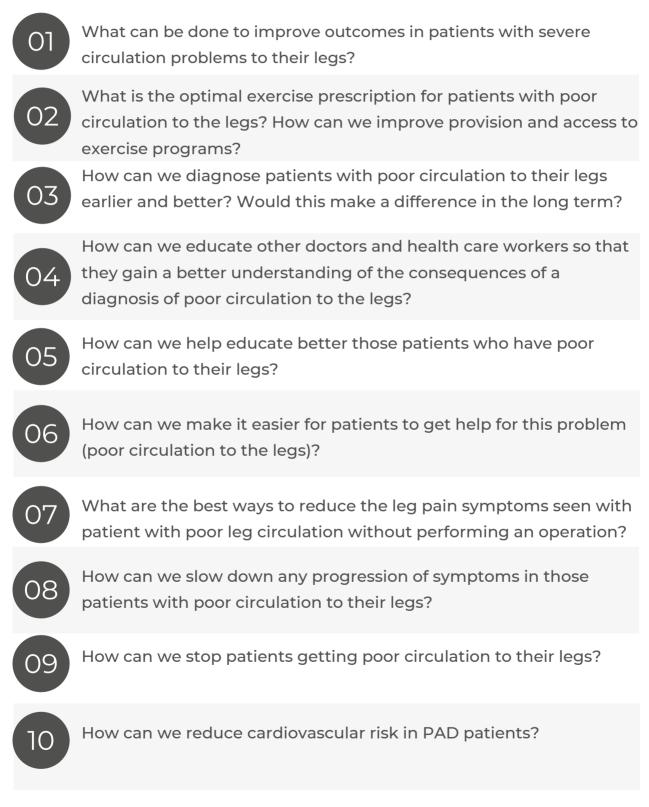
## **Diabetic Foot**

A final workshop was held 14.06.21 and brought together patients and health care professionals to jointly agree a priority list for diabetic foot research.



## Peripheral Arterial Disease PAD

A final workshop was held 14.05.21 and brought together patients and health care professionals to jointly agree a priority list for PAD research.



## Service Organisation

A final workshop was held 09.07.21 and brought together patients and health care professionals to jointly agree a priority list for vascular service research.



## Venous

A final workshop was held 27.09.21 and brought together patients and health care professionals to jointly agree a priority list for venous research.



## Wounds

A final workshop was held 18.05.21 and brought together patients and health care professionals to jointly agree a priority list for vascular wounds research.



### Background

### Vascular Conditions

Vascular conditions encompass circulatory problems and include a range of complex and often urgent or emergency procedures. They are one of the largest contributors to morbidity and mortality globally, accounting for 40% of deaths in the UK, with estimated heath and care costs of £9 billion in the UK annually (1). Vascular work also frequently overlaps with other specialties that also treat patients where there is a risk of damage to arteries and veins (2) and this is reflected in the broad range of research questions submitted during this process.

## Vascular conditions account for 40% of deaths in the UK. Estimated heath and care costs of £9 billion (1).

Despite the enormous disease burden and rising costs of vascular conditions, there is a significant lack of research investment relative to other health conditions (2, 3). Funding is highly competitive and this has an impact on vascular clinical practice, as service commissioners have been reluctant to commit resources for procedures and pathways that they perceive to have an insufficient evidence base (4).

### Why Set Priorities for Vascular Research?

Evidenced based practice is essential to direct and underpin the delivery of care, it can change the way clinicians work and how healthcare is delivered to improve patient outcomes. However, it is reported that clinical practice guidelines are often based on a poor levels of evidence, and that many trials address low-priority questions that are poorly related to the burden of disease (5, 6). Prior to the Vascular PSP, there was no agreement over research priorities within the vascular specialty (7), which results in individual units or researchers focussing on their own interests, that is not necessarily the research that delivers the greatest impact.

## 85% of research investment is wasted when the needs of users of research are ignored (8).

Prioritizing research that generates maximum impact on health outcomes is a key criterion for funding panels and policymakers in deciding where best to target their investments. Traditionally, medical research has largely been conducted by academics, in isolation from patients and other healthcare professionals. It has focussed on the

### Background

problems that research professionals think are the most important, which can often be different from what patients, their carer's and their families think are important. It is estimated that up to 85% of research investment is wasted, and this happens in part when the needs of users of research are ignored (8).

### What are the Benefits of a Priority Setting Process?

There is growing evidence that involving patients, carers and health professionals in setting research and funding agendas can improve the quality, relevance and implementation of the research conducted and ensure that research resources address the issues which are most important to those people affected by a particular health care problem (9).

## Patients and carers across the UK are closest to the conditions and living with the effects every day. They have valuable insight to share.

Researchers may become more aware of the lived experiences of the conditions they research and be alerted to areas previously under-researched, or ignored. Service users and members of the public may in turn gain a new perspective on their situation and be encouraged to think about their personal experience more widely (10). It is therefore recommended that research into clinical practice and national health services should identify and address the questions and uncertainties that are of most practical importance to patients, their carers and clinicians (11, 12).

It was nice to be able to hear the thoughts of some of the professionals. Absolutely fantastic opportunity to learn from patients.

Feedback from the Vascular PSP Final Workshops.

### Background

## How did the Vascular Priority Setting Partnership agree the priorities?

The Vascular PSP was undertaken in three main phases;



Delphi Survey: an initial Delphi survey to gather the opinions of vascular health care professionals about their research priorities.

A James Lind Alliance (JLA) survey to gather the opinions of vascular patients and carers about their research priorities.

Final workshops to bring together patient and healthcare professional priorities to jointly agree research priorities.

The Delphi Methodology and James Lind Alliance are two popular approaches for conducting priority setting and both methods were applied to the Vascular PSP. Following successful implementation of the clinician Delphi survey, funding was secured with the Vascular Society to engage the James Lind Alliance to oversee phase two and three above.

### Delphi Background

The Delphi method is regarded as a flexible research technique, often used in priority setting processes that focuses on the identification of expert opinion (14). It is an iterative process to collect opinions of experts who respond to several rounds of questionnaires. The responses are aggregated and shared with the group, there are multiple rounds until a consensus is reached. The full methodology of the Delphi phase of the project has been published in "Identifying the research priorities of healthcare professionals in UK vascular surgery: modified Delphi approach" (7).

### JLA Background

The James Lind Alliance (JLA) was established in the UK in 2004 and is funded by the National Institute for Health Research (NIHR) and to date, over 100 JLA PSPs have been conducted across a range of settings and conditions. The JLA encourages patients, carers and clinicians to work together in PSPs to identify and prioritise shared uncertainties. It provides a transparent and structured framework that emphasises patient participation in PSPs, whereby patients have an equal voice to clinicians in influencing the research agenda (13, 15).

I

## How did the Vascular Priority Setting Partnership agree the priorities?

Summary Timeline of Activities

Jun 2016	Vascular Research Collaborative Established Oversight for Delphi survey of healthcare professionals.
Jan-Mar 2017	Clinician Delphi Round 1 Survey Gathering Priorities.
Aug-Oct 2017	Clinician Delphi Round 2 Survey Scoring Priorities.
Sept 2018	Engagement with the James Lind Alliance JLA Advisor appointed.
Jan 2019	Vascular PSP Steering Group Established Protocol and scope of Vascular PSP agreed.
Aug 19-Mar 20	Patient JLA Round 1 Survey Gathering Priorities.
Nov 2019	Special Interest Group Chairs Appointed Oversight to ensure representation for vascular conditions.
Nov 20-Feb 21	Patient JLA Round 2 Survey Scoring Priorities.
Jan-Sept 2021	Final SIG Prioritisation workshops Clinician and patient priorities amalgamated. A ranked top 10 list of research priorities for each SIG sub-specialty area.

### **Special Interest Groups (SIGs)**

## Special Interest Groups

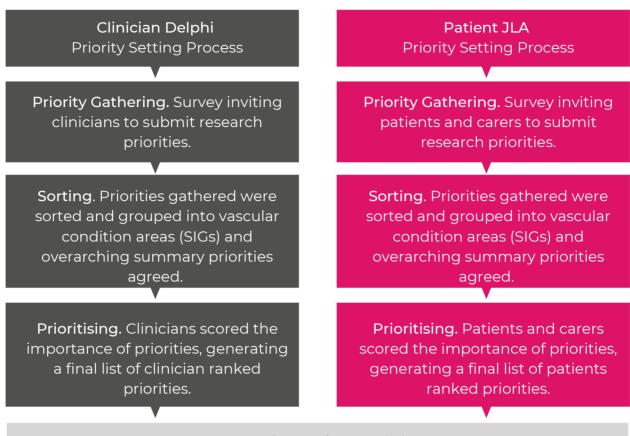
9

Following the responses of the Delphi Survey, recognising the importance for planning and continuity to take the priorities forward for research (13), Special Interest Groups (SIGs) were appointed to support the Vascular PSP process. Their role is:

- To identify, recruit and appoint appropriate SIG members.
- To support the James Lind Alliance (JLA) Vascular Priority Setting Process.
- To establish research based on both the clinician and patient priorities.
- To develop a portfolio of funded research studies in area of special interest.
- To promote and facilitate trainee involvement in vascular surgical research.

Specialist Area	Chair/Co-Chair	Deputy Chair
Access	George Smith	Jonathan De Siqueira
Amputation	Rob Hinchliffe	Dave Bosanquet
Aortic	Matt Bown Colin Bicknell	
Carotid	Alison Halliday Dominic Howard Richard Bulbulia	
Diabetic Foot	David Russell	Joe Shalhoub
PAD	Patrick Coughlin	Athanasios Saratzis
Service Organisation	Jonathan Michaels	
Venous	Dan Carradice	
Wounds	lan Chetter	

### **Summary of PSP Process**



### SIG Amalgamation Workshops

Clinician AND Patient priorities were amalgamated to create final list of joint priorities for discussion at final workshops.

### SIG PRIORITISATION WORKSHOP

Each SIG held final workshops with patients and clinicians to agree a ranked top 10 list of research priorities for each SIG sub-specialty area.

cular PSP Top 10	Vascular PSP Top 10s	Vascular PSP Top 101	Vascular PSP T		Vascular PSP Top 10s	Manual and Barns		Vascular PSP Top 10s
ounds	Service Organisation	Venous	Diabetic Foot	Vascular PSP Top 1	vascular PSP Top Tos	Vascular PSP	Vascular PSP Top	
al workshop was held 18.05.21 professionals to jointly agree	A final workshop was held 09.07.21 ar care professionals to jointly agree a p	A final workshop was held 27/09/21 at care professionals to jointly agree a p	A final workshop was held care professionals to joint)	Peripheral Arterial	Aortic A final workshop was held 13.08.21 and	Carotid A final workshop was bei	Amputation	Access A final workshop was held 25.7.21 and brought together patients and health
How can patient involver	How can regional vascular si to provide the best outcome	How can all patients be nive	01 What is the most i	A final workshop was held 14.05, care professionals to jointly agre	care professionals to jointly agree a price	care professionals to joint	A final workshop was held 2 care professionals to jointly	care provessionals to joinity agree a priority list for vascular access research.
		assessment and treatment ti	What is the most 4	OI What can be done to in circulation problems to	01 What is the optimal managem disease using individualised ris	Ol Can doctors accu disease are most	OI How can we reduc	0) What can be done to make fistulas or grafts last as long as possible?
How can healing of open	02 What can be done to ensur have a better understandin	02 How can answereness and edu	02 after toe amputati:	02 What is the optimal excitculation to the legs	02 What causes aneurysms to gr	02 Is there an associ decline?	What are the bes	What staff education is needed to help them to understand the experience of patients living with a dialysis line, graft or fistula?
How can quality of life b	What can be done to make get to see the most approp	03 How can leg symptoms and treated in people with deep s thrombosis (DVT)?	03 Why are there dela	02 exercise programs? How can we diagnose earlier and better? W	03 Can we develop a test that co aneurysm/dissection?	What is the optim	02 amputation? 03 How can we imp imb amputation	What education do patients need to be given about living with and looking after a dialysis line, graft or fistula and the effect this may have on their quality of He?
How can woundcare by or needs?	What is the best way to he diet, smoking cessation ar	How can varioose veins be pro beck after treatment?	How can outcomes improved?	How can we educate they gain a better un diagnosis of poor cir	How do surgeons decide whic are these decisions based on 1	Can the appearant predict an individu	04 What are the by	What can be done to avoid narrow segments from forming in fittules or grafts?
5 Which service configu wound petients?	05 How can awareness of vas people with vascular symp	05 How can the number of paties treatment be improved?	05 What is the best way with diabetes?	05 How can we help ex	05 What is the optimum medical minimise expansion / ropture'	What is the best to	How do we imp	05 Is a finitule always the best option for all patients who need dialysis, regardless of age?
6 How can communicat be improved?	What can be done to imp professionals and people	06 How can leg symptoms and ta treated in people with superfic	Can risk assessment   complications?	66 How can we make	06 What causes an aneurysm or and how can we prevent one	What can be done 1 symptoms following	05 undergoing an In a person wh how are the ct	What do patients need to know about the risk of having many procedures to place new fictulas, grafts and dialysis lines and the possibility of damage to the blood circulation system?
How can consistency patients with wound	What can be done to ma vascular patients comms	07 How can venous leg ulcers be r	07 What is the most effer foot ulcers?	07 What are the best patient with poor	What is the best way to monit aneurysms to make sure they recail?	07 Is screening for caro the best screening t	above the ark	What features of a fistula or graft make it better or worse at providing dialysis?
B How can wounds be	08 New and emerging tech evaluated?	OB What is the best type of compri- disease and how do we improve	08 What factors affect he		How do we make aneurysm a complications?	08 Following carotid su narrowing) of the tre	Ba In a person v chances of a	What can be done to prevent flatules becoming enlarged or at risk of a serious bleed?
09 How can wound her	09 What can be done to m access to the best vascu characteristics?	09 How can pain be better control	09 How can awareness of	09 How can we thep	How do we reduce the time it operations?	09 Is surveillance of pati- worthwhile?	8b How do we	What can be done to make needing of grafts and fistulas more accurate to lower the risk of problems?
10 How can communit wounds?	How can better treatme that do not require maj	How common is pelvic vein inco effective?	What can bels an anno worthwhile?	How can we red	10 Should siblings be screened ft of aneurysm?	10 What is the optimal a endarterectomy?	BC When is it I	10 What can be done to prevent infections related to dialysis lines?

## Phase One; Clinician Delphi Survey Summary.

Aims: To survey the opinions of vascular clinicians, to identify and score research priorities using a modified Delphi methodology.

#### Methods

A full description of this phase of the project has been published (7) however, for the purpose of this report, the methodology and results are summarized below.

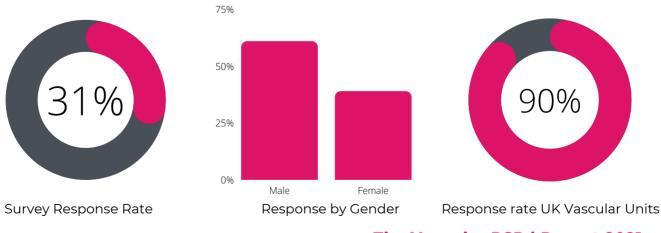
1) Gathering priorities. An open-ended survey was designed and piloted with a steering group and produced in electronic and paper format. The survey invited vascular clinicians to submit research priorities or uncertainties that could be about anything. The survey also asked basic demographic information to enable the steering group to monitor who was responding to the survey.

The survey was open from January - March 2017. It was disseminated via email to to the members of UK societies involved in the care of vascular patients and via letters of invitation sent to each vascular unit registered on the National Vascular Registry (NVR), and included the survey link. **481** Responses to the first round of survey.

1231 Submitted research priorities.

#### Results from round one

There were 1231 potential research priorities submitted by 481 participants, 61% identified as male and 39% female. A combined total of 1577 members of UK societies were emailed a survey link with a 31% response rate (n=481). There was representation from 90% UK Vascular Units (as identified by NVR 2016 database).



## Phase One; Clinician Delphi Survey Summary.

2)i. Sorting responses. A sub-group of the steering group collated and reviewed responses from the first round of survey. There were 366 suggestions considered to be out of scope and excluded e.g. comments which did not appear to contain a question, suggestions already answered by existing evidence, requests for information or advice, suggestions that were too broad or unclear and non-sensical.

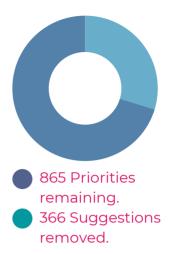
ii. Summarizing responses; Similar responses were grouped and an overarching summary priority agreed. Priorities were assigned to a vascular category, and these categories formed the basis of the Special Interest Groups (SIGs). A service organisation category was introduced to encompass the general questions that could be applied regardless of a specific vascular condition, for example questions about access to services, communication, lifestyle and education.

**3)** Scoring Priorities; a second survey was designed and piloted with the steering group and made available in electronic and paper format. The survey invited vascular clinicians to score the summary priorities on a scale of importance between one and ten (ten being the most important and one the least).

The survey was open from August 2017 – October 2017. The rationalised list of research priorities was recirculated to all invited participants from the first round of survey, as well as being open to new participants.

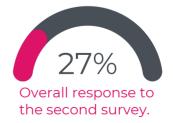
#### **Results from Round Two**

A combined total of 1179 vascular society members were emailed a survey link, 323 responded, achieving a 27% overall response rate. A final list of priorities was determined using sum scores, producing an overall top 10 list of research priorities for vascular clinicians.



83 Summary priorities for next round of scoring.

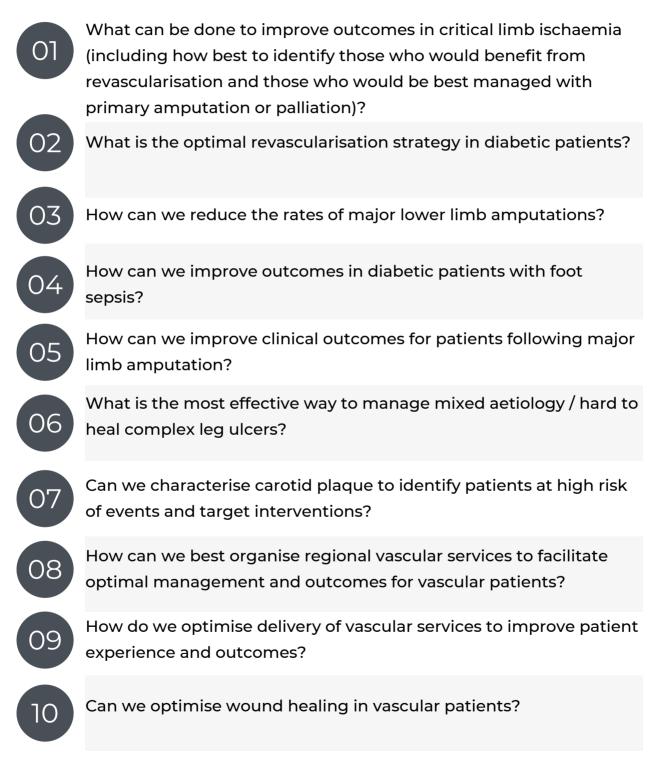
323 Responses to the second survey.



## Vascular PSP Clinician Top 10

## **Overall Clinician Top 10 Priorities**

This priority list reflects the opinions of vascular clinicians in vascular surgery and does not include input from service users.



## Phase Two; Patient and Carer Survey with the James Lind Alliance (JLA).

Aims: To survey the opinions of patients with lived experience of vascular conditions (and their families and carers), to identify and score research priorities using the JLA framework.

### In association with



Priority Setting Partnerships

### Methods

Following the success of the vascular health care professional Delphi survey, the Vascular PSP worked in collaboration with the James Lind Alliance to dentify and score patients and carers research priorities.

1) Gathering priorities. An open-ended online and paper-based survey was designed and piloted with the steering group that also included patient representatives. The survey invited participants to submit suggested priorities or topics and provided guidance that questions could be about anything (e.g., treatment, prevention, access to services, anything that was important to participants). The survey also asked basic demographic information to enable the steering group to monitor who was responding to try and ensure the opinions were representative across the range of vascular conditions.

## People with experience of vascular conditions helping to set the research agenda.

The survey was open from August 2019 – March 2020. The electronic link was disseminated via email to UK societies whose members care for vascular patients, encouraging them to involve their patients and to make sure vascular patients were represented. Participant packs were also sent out to vascular units and contained paper copies of the survey with a freepost return address, and promotional materials such as postcards and posters that could be left in outpatient waiting areas. The survey was promoted via social media (twitter) and advertised via affiliated websites and newsletters such as the Circulation Foundation.



## Phase Two; Patient and Carer Survey with the James Lind Alliance (JLA).

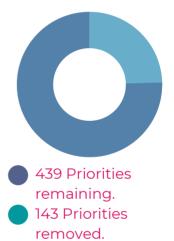
### **Results from Round One**

There were 582 potential research priorities suggested by 373 participants. From the 373 participants who opted to complete the demographics section, 48% were male, 47% female and 5% preferred not to answer. Participant age range was 20 years to 94 years, with an average age of 61 years.

When participants were asked "Which of these categories best describes you?' 81% had a vascular condition, 15% were carers and 4% preferred not to say. Most surveys (70%) were completed electronically compared to 30% completed in paper format.

2)i. Sorting suggestions; a core working sub-group of the steering group collated and reviewed the suggestions from the first round of survey. There were 143 considered to be out of scope and excluded e.g. suggestions which did not appear to contain a question, suggestions that are already answered by existing evidence, requests for information or advice, suggestions that were too broad or unclear and non-sensical. Following this initial review, priorities were assigned to the relevant Special Interest Groups (SIGs) for summarising.

**ii. Summarizing responses;** the SIGs were tasked with reviewing the responses assigned to their special interest area, combining duplicates, formulating overarching summary priorities, and checking the priorities against current evidence, before these were sent to the next round of survey for scoring. **373** Participants in the first round of survey. 582 Potential research priorities submitted.



**61** Average age of participant.

**133** Summary priorities for next round of scoring.

## Phase Two; Patient and Carer Survey with the James Lind Alliance (JLA).

**3)** Scoring priorities; an online and paper-based survey was designed and piloted with the steering group that also included patient representatives.

The survey invited patients to select their vascular area/s of interest and to score the priorities within this area using a likert scale (Extremely Important to Not at all Important or Don't know). The survey requested to score the service organisation priorities since these were considered to be general and relevant across all vascular conditions.

Participants were also invited to submit their interest in participating in final SIG workshops.

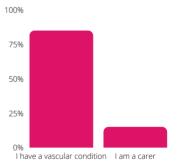
The survey was open from November 2020 - February 2021. Dissemination activities followed those outlined in the first round.

### **Results from Round Two**

A total of 273 responses were received. From the participants who opted to complete the demographics section, 60% were male and 37% female and 3% preferred not to answer. Participant age range was 25 years to 93 years, with an average age of 61 years. When participants were asked 'Which of these categories best describes you?' 84% had a vascular condition and 15% were carers.

A final list of priorities within each Special Interest Group was determined using mean likert scores. 9 SIG participant categories.

273 Participants in the second round of survey.

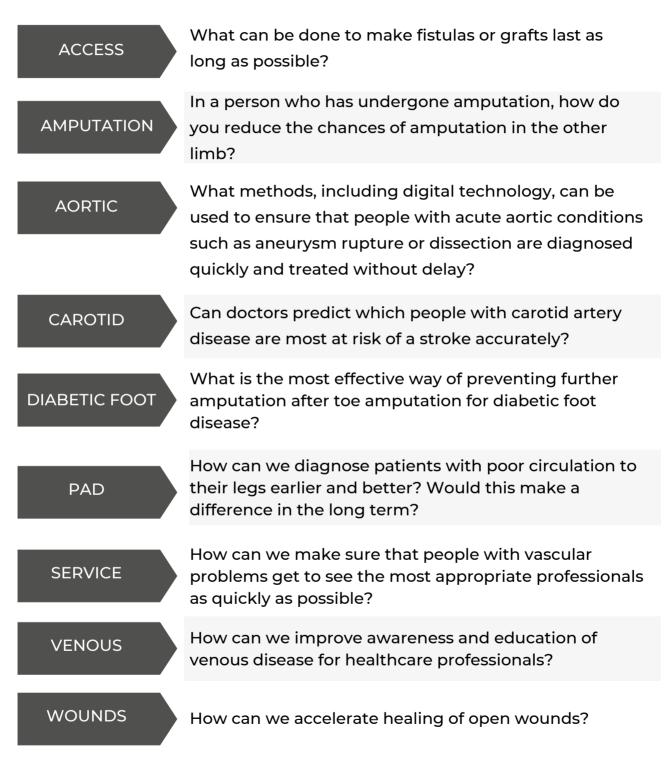


**61** Average age of participant.

## Vascular PSP Patient and Carer Priorities

## **Overall Patient and Carer Priorities**

This priority list reflects the opinions of vascular patients and carers. The highest scoring priority for each Special Interest Group is shown below:



## Phase Three; Final SIG Workshops: A combined approach.

Final prioritisation workshops took place between January and September 2021. The nine special interest groups (SIGs) held individual workshops to agree on their 'top ten' list of research priorities.

### 1) Combining the survey results.

Following JLA recommendations, work was undertaken by each SIG in advance to agree on a final combined shortlist of priorities to be discussed at the workshops. Where clinician priorities and patient priorities overlapped, the patient priority was put forward. Clinician priorities were reviewed with patient input to reword any technical language to ensure that patient representatives attending the workshops could understand the priority, with care taken to ensure the original substance remained.

### **Online Workshops**

Due to the ongoing risk of COVID-19, face to face workshops were not possible, however the JLA adapted their process to deliver the workshops online via zoom. The Vascular PSP sub-group worked with their JLA adviser to develop a template agenda, where online discussions and breakout sessions were conducted over a four-hour period (with plenty of breaks).

Each workshop was facilitated by the Vascular PSP lead JLA advisor and followed the JLA methodology, using a Nominal Group Technique to generate discussion, ranking, consensus and agreement. Each workshop aimed to include 18 participants to enable separate breakout groups that included a mixture of patients, carers, clinicians and representatives from affiliated organisations. SIG members acted as observers on the day and provided emotional support as required.



Patients carers and professionals working together.

9 The SIGs created a combined shortlist of priorities for workshop discussion.



Workshops held online instead of face to face.

4hr

Adapted JLA agenda to run sessions online.

## Phase Three; Final SIG Workshops: A combined approach.

Participants were sent an information pack in advance that contained a list of the priorities sheet in a random order, in which they were asked to identify their 3 most and 3 least important priorities. They were asked to bring this to the meeting to initiate discussions.

Small breakout groups were held to rank the research priorities (interim prioritisation), participants were encouraged to listen to each other's perspectives and provided an opportunity to re-order priorities as discussions progressed.

A final session was held and aggregate ranking from the breakout sessions were presented and a consensus reached.

The Result: A ranked list of the top 10 most important research priorities for each Speacial Interest Group.



I thought there was excellent discussion with very good agreement overall between the patients and healthcare professionals.

I feel like we recognised that they are all important. **99** 

I also better understand some of the challenges and limitations healthcare providers face. I would definitely do it again!

### **Next Steps**

### **Publishing Results**

The agreed top 10s resulting from these workshops are presented earlier in this report. Each SIG is in the process of publishing the outcomes of the workshop, with further discussion about the overall process, relevance and implications of results with recommendations for next steps in translating the top 10s into funded research.

### How to get involved

The priorities are freely available to be researched and we hope they will provide useful guidance to those who are considering funding applications, research strategies or campaign work.

If you have any queries or would like to get involved, please contact the project coordinator Judith.long3@nhs.net or one of the SIG leads.

### Keep in touch

We encourage you to keep in touch and let us know how you intend to use these priorities. The SIGs have been involved throughout the Vascular PSP, they have a wealth of experience within their group memberships and are keen to work with others who might be interested in pursuing any of these priorities. For this process to continue to be a success we should work together and ultimately strengthen the approach for tackling these important research areas.

## **Call to Action**

We encourage all vascular patients, carers and professionals to advocate the Vascular Research Priorities and to get involved in research to address these important questions.

### References

- 1.BHF. UK Factsheet www.bhf.org.uk: British Heart Foundation; 2021 [Available from: file:///Users/518491/Downloads/bhf-cvd-statistics-uk-factsheet.pdf
- 2.VSGBI. The Provision of Services for Patients with Vascular Disease. vascularsociety.org.uk; 2018. Contract No.: 4.9.21.
- 3. UKCRC. UK Health Research Analysis 2018. hrcsonline.net; 2020.
- 4. Michaels J, Wilson E, Maheswaran R, Radley S, Jones G, Tong T-S, et al. Configuration of vascular services: a multiple methods research programme. 2021;9:5.
- 5. Dechartres A, Ravaud P. Better prioritization to increase research value and decrease waste. BMC medicine. 2015;13(1):244-.
- 6.Emdin CA, Odutayo A, Hsiao AJ, Shakir M, Hopewell S, Rahimi K, et al. Association between randomised trial evidence and global burden of disease: cross sectional study (Epidemiological Study of Randomized Trials--ESORT). BMJ. 2015;350:h117.
- 7.Smith GE, Long J, Wallace T, Carradice D, Chetter IC, Vascular Research C. Identifying the research priorities of healthcare professionals in UK vascular surgery: modified Delphi approach. BJSOpen. 2021;5(2):05.
- 8. Chalmers I, Glasziou P. Avoidable waste in the production and reporting of research evidence. Lancet. 2009;374(9683):86-9.
- 9. Pollock A, George BS, Fenton M, Crowe S, Firkins L. Development of a new model to engage patients and clinicians in setting research priorities. Journal of health services research & policy. 2014;19(1):12-8.
- 10.Oliver S, Liabo K, Stewart R, Rees R. Public involvement in research: making sense of the diversity. Journal of health services research & policy. 2015;20(1):45-51.
- 11. Chalmers I, Atkinson P, Fenton M, Firkins L, Crowe S, Cowan K. Tackling treatment uncertainties together: the evolution of the James Lind Initiative, 2003-2013. Journal of the Royal Society of Medicine. 2013;106(12):482-91.
- 12. Partridge N, Scadding J. The James Lind Alliance: patients and clinicians should jointly identify their priorities for clinical trials. Lancet. 2004;364(9449):1923-4.
- 13. Staley K, Crowe S, Crocker JC, Madden M, Greenhalgh T. What happens after James Lind Alliance Priority Setting Partnerships? A qualitative study of contexts, processes and impacts. Res Involv Engagem. 2020;6:41.
- 14. Delbecq A, Ven A, Gustafson D. Group Techniques for Program Planning: A Guide to Nominal Group and Delphi Processes. Glenview, Illinois: Scott Forman and Co. 1986.
- 15. Alliance TJL. The James Lind Alliance Guidebook. Version 10 jla.nihr.ac.uk2021 [Available from: https://www.jla.nihr.ac.uk/jla-guidebook/downloads/JLA-Guidebook-Version-10-March-2021.pdf.

## The Vascular Priority Setting Partnership Steering Group

Mohamad HamadyBritish Society of Interventional RadiologyMichael JenkinsCirculation Foundation	
Michael Jenkins Circulation Foundation	
Gerard Stansby Coordinating Editor Cochrane Vascular	
Mathew Bown LCRN East Midlands	
Patrick Coughlin LCRN Eastern	
Tawqeer Rashid LCRN Greater Manchester	
James McCaslin LCRN North East and North Cumbria	
Rao Vallabhaneni LCRN North West Coast	
Bijan Modarai LCRN North West London	
Ashok Handa LCRN Thames Valley & South Midlands	
Rob Hinchliffe LCRN West of England	
David Russell LCRN Yorkshire and Humberside	
Tom Wallace Leeds Teaching Hospital NHS Trust	
Graeme Ambler Associate SSL Vascular Surgery	
Sandip Nandhra The Rouleaux Club	
Leanne Atkin Society of Vascular Nurses	
Richard Simpson The Society for Vascular Technology GBI	
Chris Imray The Vascular Society GBI	
Ruth Benson Vascular Endovascular Research Network	
George Smith Vascular PSP Sub-group Lead, Associate SSL Vascular Sur	gery
Ian Chetter Vascular PSP Lead, RCSEng SSL Vascular Surgery	
Judith Long Vascular PSP Coordinator	
Toto Gronlund Vascular PSP Chair and JLA Lead Advisor	

Patient Representatives

Robert Antill, John Bowring, Tracy Goodwin, Gillian Samphire, Jeff Shires, John Taylor

## Acknowledgements

The work of the Vascular PSP was funded by the Vascular Society. This report was written on behalf of the Vascular PSP Steering Goup by Judith Long (PSP Coordinator), Professor Ian Chetter (PSP Lead) and Toto Gronlund (JLA Lead Advisor and PSP Chair).

We are grateful to the Steering Group for their oversight and to everyone who helped promote the survey or participated in the process. Thanks to the each of the SIGs for their continued support and their ongoing role in maintaining the momentum of this project.

Finally, a special thank you to Toto Gronlund, our lead JLA facilitator for all the support and guidance throughout and in helping to manage nine Vascular PSPs.