



SCHOLARSHIP REPORT

This report should be completed by recipients of awards and scholarships from the Royal College of Physicians and Surgeons of Glasgow on completion of the activity for which they received their award or scholarship. Please complete all sections of the report form.

Please return your completed report via email to: scholarships@rcpsg.ac.uk

Or via mail to: **Scholarships Committee Administrator, Royal College of Physicians and Surgeons of Glasgow,
232-242 St Vincent Street, Glasgow G2 5RJ, UK**

Please use typeface when completing this form.

SECTION 1 PERSONAL AND AWARD DETAILS			
Title	Dr	PID	58457
Surname	Tan	Forename(s)	Alfred Bingchao
Scholarship/award awarded	College Travelling Fellowship	Amount awarded	£2000

SECTION 2 PROJECT/VISIT DETAILS	
Name/Title	Fellowship Program in Endovascular Treatment of Critical Limb Ischaemia
Location	Policlinico Abano Terme
Aims and objectives	<ul style="list-style-type: none">• Observation and learning of lower limb angioplasty techniques 1) Femoral/popliteal artery recannulisation using angioplasty/stenting/drug eluding techniques 2) Crural artery angioplasty 3) Retrograde pedal access 4) Lower limb revascularisation using pedal plantar loop technique 5) Use of the Angiodroid CO2 injector for CO2 angiography• Appreciation of the multidisciplinary dynamics between nursing staff, radiographers and doctors in dealing with patients with critical limb ischaemia• Exposure to the workings of a different healthcare system in a European Country

<p>Summary</p> <p><i>Include methodology, results and conclusions if applicable</i></p>	<p>Peripheral arterial disease (PAD) affects 200 million patients globally. Its incidence and that of critical limb ischaemia continue to rise yearly. In particular, diabetic patients are 3 to 4 times more at risk of developing PAD and a subsequent major amputation rate of 5 to 10 times higher than patients without diabetes.</p> <p>I came to learn about this critical limb endovascular fellowship through watching online videos of Dr Marco Manzi, a world renown, interventional radiologist with an interest in below knee angioplasties. The fellowship was organised by directly contacting Dr Manzi who then got me in touched with an organising agent to check out available dates.</p> <p>Policlinico Abano is located approximately 55 km west of Venice. From Glasgow, I transited via Gatwick Airport to Marco Polo International Airport Venice. Once in Venice, the trip to Abano Terme was 35 mins by car or an easy 20 minute commute by train to Padua town, followed by a 20 min bus journey to Abano Terme.</p> <p>I spent a total of 2 weeks in Policlinico Hospital, a medium size hospital serving 450 000 Italian and foreign visitors each year.</p> <p>The two Italian doctors working within the interventional radiology unit were Dr Marco Manzi and Dr Mariano Palena. Having built a reputation for critical limb ischaemia (CLI) angioplasties over the years, the unit now performs over 800 cases per annum.</p>
<p>Learning outcomes</p> <p><i>Detail here how the aims and objectives were met</i></p>	<p>The day starts at 815 am with the review of the day's list which typically consist of 3 to 4 angioplasty cases with occasional non-vascular cases such as percutaneous cholangiogram stenting, nephrostomies, drainages and varicocele embolisations.</p> <p>I was there with another visiting vascular surgeon from Kuwait and between the two of us, we took turns to scrub for the cases.</p> <p>I was involved in a total of 26 vascular and 5 non-vascular cases. During these procedures, I learnt about the basics of fem-popliteal and crural angioplasty such as wire/catheter selection, understanding the mechanics of device manipulation and patient care during the procedure.</p> <p>Several advance techniques were also observed during this time. Specifically,</p> <ol style="list-style-type: none"> 1) Transcollateral retrograde recannulisation of SFA occlusion 2) Anterolateral popliteal/tibial artery retrograde access 3) Retrograde pedal artery access 4) Arteriovenous fistulation cannulation – Stenting across the popliteal artery and vein with venous valve disruption to create an intentional AV fistula to allow downstream perfusion of the foot via the veins. 5) Atherectomy and embolic protection devices 6) Angiodroid Carbon Dioxide Angiography <p>In between cases, I was able to do some data collection for the department as part of an investigatory study into the use of below knee crural vessel stenting.</p> <p>The day ends with a reflection of the case with the consultants who were so ever willing to share their wisdom. There was little to do in the quiet town of Abano Terme so most nights were spent reading the departmental scientific publications to reinforce the day's practical experience</p> <p>The short weekend allowed a little respite from the busy days in theatre and I was able to take the opportunity to travel to the foodie city of Bologna and visit the amazing Uffizi Galleries of Florence.</p>

Evaluation

How has this scholarship/award impacted on your clinical/NHS practice or equivalent?

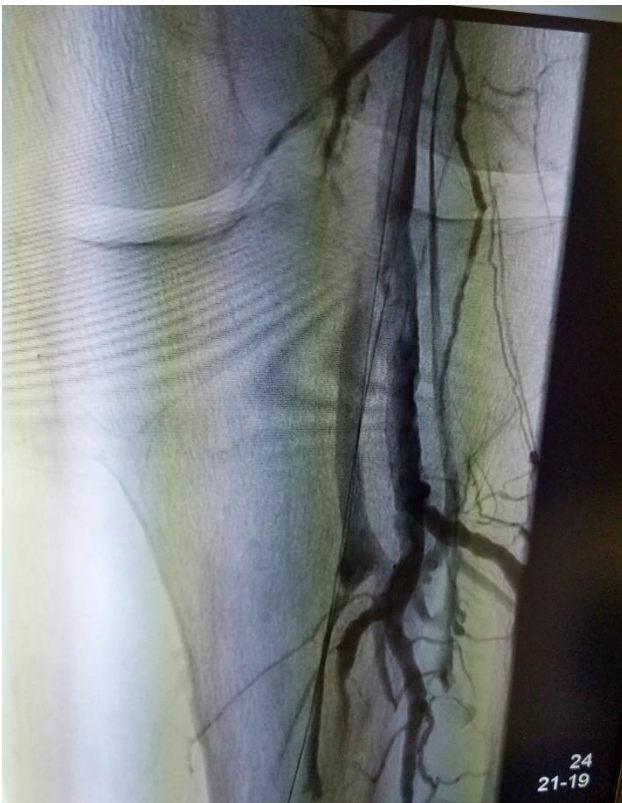
The interventional unit in Abano Terme is a centre of excellence and many doctors around the world travel to the site with medical device companies for a day or two to observe the procedures live.

The financial support received with this travelling scholarship allowed me to be there for 2 weeks and scrubbed up to be directly involved with the procedures, which was a great privilege. I like to take this opportunity to thank the college for investing in trainee development, without which I would not have been able to participate in this masterclass.

The experience increased my confidence in the identification of patients suitable for vessel treatment, the basic knowledge of how to select my workhorse wires/catheters/balloons/stents, recognition of anatomy and dealing with complications that may arise.

I plan to share the tips and tricks learnt with the rest of the department during one of the departmental educational meetings and hope to set up a regular practice of crural angioplasty with the vascular surgeons to help patients that may benefit from an endovascular limb salvage over a debilitating amputation.

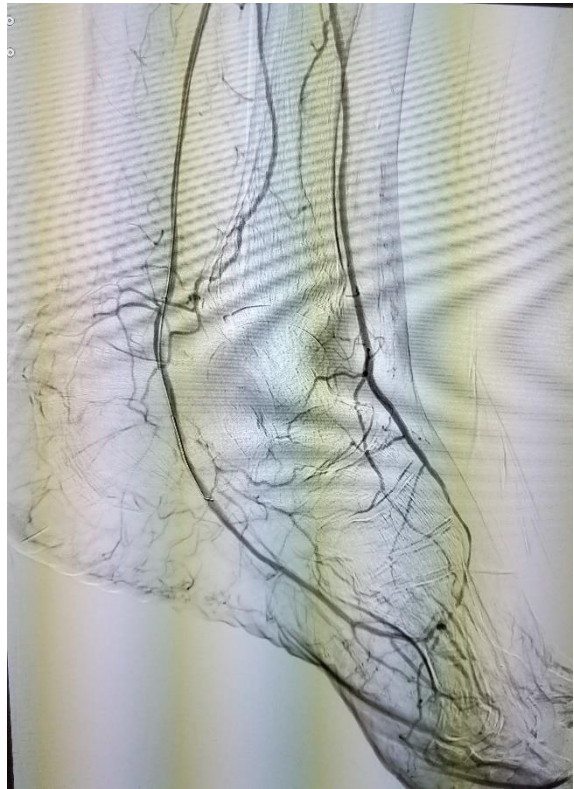
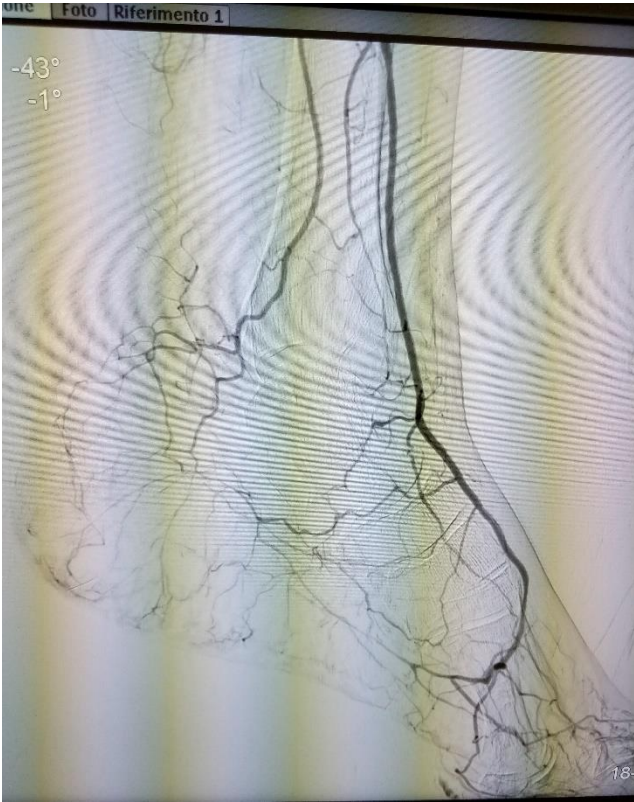
SECTION 3 | IMAGES



Myself with Ameer, Kuwaiti Vascular Surgeon, Dr Marco Manzi and Dr Mariano Palena

Popliteal artery to popliteal vein AV fistula creation and retrograde perfusion into the foot capillary bed via tibial veins.





Pre and post plantar loop angioplasty.



CO2 angiography



SECTION 4 | EXPENDITURE

Breakdown of expenditures

Please demonstrate how the scholarship/award funding was used to support your project/visit

Fellowship costs - £1303

Subsistence – £235.39

Flights and transfers - £227.05

Total - £1765.44

SECTION 5 | PUBLICATION

Scholarship/award reports may be published in College News. Please tick here if you agree to your report being published.

I give permission for my report to be published in College News

If your report is selected for publishing, the editor of College News will be in touch to discuss this with you.

All Information concerning you as an individual will be held and processed by the College strictly in accordance with the provisions of the General Data Protection Regulation (GDPR) (Regulation (EU) 2016/679). Such data will be used by the College to administer its relationship with you as a Fellow or Member. We will not, without your consent, supply your name and address to any third party except where (1) such transfer is a necessary part of the activities that we undertake, including the provision of library services (if applicable) or (2) we are required to do so by operation of law. As an individual you have a right under the General Data Protection Regulation (GDPR) (Regulation (EU) 2016/679) to obtain information from us, including a description of the data that we hold on you. Should you have any enquiries about this right please contact Membership Services Administrator at the College.