# Unit 100: Introduction to Vascular Science

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| **Level:** | **4** |
| **Unit type:** | **Optional (Cardiac Physiology)** |
| **Credit value:** | **3** |
| **Guided learning hours:** | **20** |

## Unit summary

In this unit, you will gain an overview of the services provided by vascular science, the regulatory framework within which these services operate and the quality-assurance processes that underpin the high-quality, safe investigations undertaken in this specialism of healthcare science.

## Unit assessment requirements

There are no specific assessment requirements for this unit. Please refer to the assessment strategy in *Annexe B*.

## Additional information

AC1.1 should include:

- primary care
- vascular surgical clinics
- one-stop transient ischaemic attack (TIA) clinics
- one-stop deep vein thrombosis (DVT) clinics
- hospital wards
- theatre and recovery.

AC1.2 should include:

- carotid duplex
- venous duplex for DVT and venous insufficiency
- lower limb arterial duplex
- aneurysmal duplex for aorta and popliteal aneurysms
- non-imaging investigations:
  - ankle brachial indices (ABPI)
  - pre- and post-exercise ABPI.

AC1.4 includes how the key principles of the NHS constitution apply to patient-centred care and own role.

AC2.1 includes: the process of incident reporting.

AC2.2 includes the role of:

- Health and Care Professions Council
- Academy for Healthcare Science.

AC3.1 includes:

- the importance of immediately reporting any issues that are outside own scope of competence to the relevant member of staff.

## Learning outcomes and assessment criteria

To pass this unit, learners need to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria outline the requirements that the learner is expected to meet **in own area of work and in accordance with Standard Operating Procedures (SOPs)** to achieve the learning outcomes and the unit.

| Learning outcomes | | Assessment criteria | | Evidence type | Portfolio reference | Date |
|---|---|---|---|---|---|---|
| 1 | Understand the range of healthcare science services provided by vascular science | 1.1 | Explain the range of settings in which vascular science investigations are undertaken | | | |
| | | 1.2 | Explain the range of key vascular science diagnostic techniques to diagnose and monitor vascular diseases in different settings | | | |
| | | 1.3 | Evaluate strategies to embed patient-centred care in healthcare | | | |
| | | 1.4 | Explain how the principles of patient-centred care are embedded in own work and the services provided by vascular science | | | |

| Learning outcomes | | Assessment criteria | | Evidence type | Portfolio reference | Date |
|---|---|---|---|---|---|---|
| 2 | Understand the regulatory framework within which vascular science operates, appropriate to own job role | 2.1 | Explain the legislation, policy and good practice underpinning the practice of vascular science | | | |
| | | 2.2 | Explain the regulatory framework underpinning the delivery of vascular science services | | | |
| | | 2.3 | Explain personal responsibilities for processes and procedures as described in Good Scientific Practice | | | |
| | | 2.4 | Explain the role of the healthcare science associate in vascular science | | | |
| | | 2.5 | Explain the limits of own authority and who to report any problems that they cannot resolve | | | |
| 3 | Understand the quality-assurance processes in own department which underpin safety and good practice | 3.1 | Explain the key components of the quality-management processes within vascular science | | | |
| | | 3.2 | Explain the process of service accreditation for vascular science services | | | |
| | | 3.3 | Explain how quality management contributes to safe and effective high-quality care | | | |

Learner name: _____ Date: _____

Learner signature: _____ Date: _____

Assessor signature: _____ Date: _____

Internal verifier signature: _____ Date: _____
(*if sampled*)