

| Module Details |                                                    |
|----------------|----------------------------------------------------|
| Module Title   | Hypertension, arrhythmias and conduction disorders |
| Module Code    | PSI7003-C                                          |
| Academic Year  | 2022/3                                             |
| Credits        | 30                                                 |
| School         | The Ridge Medical Practice                         |
| FHEQ Level     | FHEQ Level 7                                       |

| Contact Hours       |       |
|---------------------|-------|
| Type                | Hours |
| Tutorials           | 4     |
| Lectures            | 6     |
| Directed Study      | 110   |
| Work based learning | 180   |

| Availability |                                                     |
|--------------|-----------------------------------------------------|
| Occurrence   | Location / Period                                   |
| BDA          | University of Bradford / Full Year                  |
| BDA          | University of Bradford / Non-Standard Academic Year |

| Module Aims                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| To acquire knowledge in hypertension, arrhythmias and conduction disorders, enabling the student to develop skills to work confidently & effectively as a Practitioner with a Special Interest in Cardiology. |

| Outline Syllabus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Epidemiology & pathophysiology of hypertension. Hypertension as a risk factor for cardiovascular disease & CV risk assessment. Diagnosis of hypertension and appropriate use of clinic, home and ambulatory BP monitoring. Treatment of hypertension including pharmacological and non pharmacological interventions. National guidelines in relation to hypertension. Normal heart conduction & the ECG Brady and tachyarrhythmias. Assessment & investigation of people with arrhythmias & conduction disorders. Benefits & limitations of 12 lead ECG and rhythm monitoring. Pharmacological and non pharmacological treatments including indications for electrophysiology based treatments. Atrial fibrillation and stroke thromboprophylaxis. Knowledge of further specialist investigations and/or when to refer appropriately. National guidelines in relation to arrhythmias & conduction disorders. |

| Learning Outcomes |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Outcome Number    | Description                                                                                                                                                                                                                                                                                                                                                                                                             |
| 01                | a) Synthesise the evidence for the epidemiology and pathophysiology of hypertension. b) Differentiate the varied presentations and pathophysiology of cardiac arrhythmias and conduction disorders. c) Synthesise the evidence for the evaluation and management of people with hypertension. d) Synthesise the evidence for the evaluation and management of people with cardiac arrhythmias and conduction disorders. |
| 02                | a) Investigate, diagnose, risk assess and manage patients with high blood pressure. b) Investigate, diagnose and manage patients with cardiac arrhythmias and conduction disorders. c) Interpret a variety of electrocardiograms, rhythm monitoring & event recordings. d) Refer patients appropriately for a second opinion.e)Practice evidence-based medicine.                                                        |
| 03                | a) Practice critical effective problem solving skills. b) Demonstrate effective team working skills with colleagues and peers. c) Communicate effectively.                                                                                                                                                                                                                                                              |

| Learning, Teaching and Assessment Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Verification of competence and key skills as observed by mentor whilst on placement which tests LO: 2b, 2c, 2d, 2e, 3a, 3b, 3c and is supported by a learning diary of 14 cases seen on placement showing breadth of learning and experience, testing LO: 1b, 1c, 1d, 2a, 2b, 2c, 2d, 2e, 3a, 3b, 3c. Two reflective case studies look in detail at the management of patients seen on placement and assess LO: 1a, 1b, 1c, 1d, 2a, 2b, 2c, 2d, 2e, 3a, 3b, 3c. Students submit their work electronically and receive a summative % mark and written feedback. A short draft may be sent to tutors for formative assessment. The preparation and presentation of the critical appraisal of a piece of published research to the student group tests LO: 1c, 1d, 2e, 3a, 3c. Students are awarded a % mark and receive both written and face to face feedback on the day.</p> |

| Mode of Assessment |                      |                                                                                                                |           |
|--------------------|----------------------|----------------------------------------------------------------------------------------------------------------|-----------|
| Type               | Method               | Description                                                                                                    | Weighting |
| Summative          | Clinical Assessment  | Verification of clinical competence (& key skills) together with completed learning diary.                     | 0%        |
| Summative          | Coursework - Written | A reflective assessment of case with hypertension. (1500 words).                                               | 33%       |
| Summative          | Coursework - Written | Reflective assessment of case with arrhythmias. (1500 words)                                                   | 33%       |
| Summative          | Presentation         | Prepared critical appraisal of paper & presentation. (20 minutes presentation including 5 minute Q&A session). | 34%       |
| Referral           | Clinical Assessment  | Complete a further 8 clinical sessions. A new study plan covering areas of concern                             | 0%        |
| Referral           | Coursework - Written | A reflective assessment of case with hypertension. (1500 words).                                               | 33%       |
| Referral           | Coursework           | Reflective assessment of case with arrhythmias. (1500 words)                                                   | 33%       |
| Referral           | Presentation         | Prepared critical appraisal of paper & presentation. (20 minutes presentation including 5 minute Q&A session). | 34%       |

## Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>

*Please note:*

*This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.*

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