Contact Details

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http://www.lms.uwa.edu.au

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**Consultation hours:** By appointment

**Unit deputy coordinator:** Dr Ben Dessauvagie  
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**Location:** Anatomical Pathology, PathWest, FSH  
**Consultation hours:** By appointment
Unit Overview

• Provides a broad understanding of human disease processes

• Divided into 1 or 2 week modules
  – Pathological process “disease mechanism”
  – Examples of human diseases

• Level 2 unit – will provide broad coverage of major disease processes with a greater depth of knowledge provided in Level 3 units

• A “showcase” of pathology aiming to:
  – Give a broad understanding of human disease processes
  – Illustrate pathological processes with examples of diseases resulting from these pathological processes
# Unit Outline

<table>
<thead>
<tr>
<th>Week No.</th>
<th>Module</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
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<tr>
<td>2</td>
<td>Inflammation</td>
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<tr>
<td>3</td>
<td>Immunity and disease</td>
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<tr>
<td>4</td>
<td>Lifestyle and disease</td>
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<tr>
<td>5</td>
<td>Blood vessels and disease</td>
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<tr>
<td>6</td>
<td>Blood and blood disorders</td>
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<tr>
<td>7</td>
<td>Neoplasia 1</td>
</tr>
<tr>
<td>8</td>
<td>Forensic Pathology &amp; Mid Sem Test</td>
</tr>
<tr>
<td>9</td>
<td>Neoplasia 2</td>
</tr>
<tr>
<td>10</td>
<td>Environment and disease</td>
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<tr>
<td>11</td>
<td>Infection and disease</td>
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<tr>
<td>12</td>
<td>Genetics and disease</td>
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<tr>
<td>13</td>
<td>Research and course review</td>
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What is Pathology?

• Pathology
  – The scientific study of disease (patterns, causes, mechanisms and effects)

• Disease:
  – A condition in which the normal function (homeostasis) of some part or organ of the body is disturbed
  – A condition of the organism which limits its life in either its powers, enjoyment or duration (WHO)
What is Pathology?

- Link between basic biological sciences and clinical practice
Week 1: Introduction

- Essential for one or more of diagnosis, prognostication, treatment
- Education necessary to understand:
  - nature of disease mechanisms
  - derangements of normal anatomy, physiology, and biochemistry
  - how the above relate to manifestations seen in patient
- Scientific research
  - Cellular and molecular basis of disease
  - Foundation upon which modern medicine is based
- Introduction to ePractical resources and cell/tissue collection & processing
Week 2: Inflammation

- Inflammatory process
- Cells
- Tissues
- Clinical examples
Week 3: Immunology & disease

- Normal immunity
- Overactive vs underactive
- Allergy
- Autoimmunity
- Immunodeficiency
Week 4: Lifestyle & disease

- Nutrition
- Diabetes
- Alcohol
- Iron metabolism
Week 5: Blood vessels & disease

• The heart & blood vessels
• Bleeding & Clotting
• Heart attack
• Stroke
• “Economy class syndrome”
Week 6: Blood & blood disorders

- Haematology
- Anaemia
- Leukocyte disorders
- Leukaemia
- Transfusion
Weeks 7 & 9: Neoplasia (cancer)

- What causes cancer
- Types of cancer
- Cancer genetics
- How we diagnose cancer
- How cancer spreads
- Colon, Cervix, Lung, Skin
- Breast cancer
- Leukaemia
Week 8: Forensic pathology

• What is forensic pathology?
• Natural disease
• Cause of unexplained or violent deaths
• Trauma

Note: The Mid-Semester Test is scheduled for this week in place of an e-learning prac
Week 10: Environment & disease

- Environmental agents and disease
- Smoking
- Radiation
- Asbestos
Week 11: Infection & disease

- Infection and disease
- How we diagnose infections
  - Bacterial
  - Viral
- Tuberculosis
- Malaria
Week 12: Genetics & disease

- **Principles**
  - Autosomal vs X-linked
  - Dominant vs recessive

- **Methods**

- **Management**

- **Haemophilia**

- **Thalassaemia**

- **Cystic fibrosis**
Week 13: Research & Course Review

- Translating pathology to practice
- Clinical pathology research
- All disciplines
- Biology, treatment, prognosis, monitoring
- Importance of pathology in understanding human disease
## Teaching programme: lectures

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<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Venue</th>
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<tbody>
<tr>
<td>Monday</td>
<td>10:00 – 10:45</td>
<td>FJ Clark Lecture Theatre, Queen Elizabeth II Medical Centre</td>
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<td></td>
<td>(Mechanism)</td>
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<tr>
<td>Tuesday</td>
<td>10:00 – 10:45</td>
<td>FJ Clark Lecture Theatre, Queen Elizabeth II Medical Centre</td>
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<td></td>
<td>(Disease 1)</td>
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<tr>
<td>Tuesday</td>
<td>11:00 – 11:45</td>
<td>FJ Clark Lecture Theatre, Queen Elizabeth II Medical Centre</td>
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<tr>
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<td>(Disease 2)</td>
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<td>Day</td>
<td>Time</td>
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<tr>
<td>Thursday</td>
<td>09:00 – 10:45</td>
<td>eLearning Suites Ground Floor, M Block Queen Elizabeth II Medical Centre</td>
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<tr>
<td>Friday</td>
<td>09:00 – 10:45</td>
<td>eLearning Suites Ground Floor, M Block Queen Elizabeth II Medical Centre</td>
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eLearning Suites
ePracticals

• Attend Thursday or Friday
• Interactive sessions using clinical cases to illustrate pathology of human disease
• Macroscopic, microscopic & radiological images
• Text, on-line resources
• Worksheets with questions
• Work in groups of 6
• Post-class quizzes: comprise 15% of unit mark
  – Deadline: Monday 5pm each week
PATH2220 Assessment

- PATH2220 unit assessment: % of Final Mark
  - ePractical assessment 15%
  - Written assignment 15%
  - Mid-Semester test 20%
  - Final examination (End of semester): 50%
    - Extended matching questions 25%
    - Written (short answer) questions 25%
Written Assignment

• 1 written assignment
• Select an assignment topic from a list
• All details of requirements in Unit Guidebook
• Maximum 6 pages
• Submit via LMS in PDF format
• **Deadline: by 5pm Monday 2nd October**
• 15% of unit mark
Mid Semester Test

- To see how you are going ....
- **Date:** Thursday 21\textsuperscript{st} or Friday 22\textsuperscript{nd} September
- **Location:** eLearning Suites
- **1 hour duration**
- **Format the same as final exam**
  - Extended Matching Questions (50%)
  - Short answer questions (50%)
- **20\% of unit mark**
End of Semester Exam

• 2 hour duration

• Format
  – Extended Matching Questions (50%)
  – Short answer questions (50%)

• 50% of unit mark
Recommended Texts

• Your main source of information will be the lecture notes and epractical resources provided to you

• Complementary texts
Contact Information

• Direct your enquiries to the LMS discussion board
  – I am subscribed so I will see them
  – Your questions may benefit others

• Confidential enquiries - email unit coordinator directly
  – If detailed information is required a phone call or appointment may be appropriate

• Questions about unit content should be directed to the LMS discussion forum

• Please check the “Announcement” section before sending an email - your question may have already been addressed!