Western Sydney University

Subject Outline

School	**SCHOOL OF MEDICINE**
Unit Number and Name	**MEDI7063** – Applied Clinical Sciences 2 (ACS2)
Unit Coordinator	**Professor Stephen Tobin** Phone: (02) 4620 3138 Email: s.tobin@westernsydney.edu.au
Teaching Session and Year	1H and 2H 2023
Handbook Summary	ACS2 is the second major clinical year of the MD program. It consists of 9 weeks in each of Paediatrics, Obstetrics & Gynaecology and Mental Health and four weeks in each of Oncology/Palliative Care and MD Research Project. There will also be 2 weeks of Campus Learning, which are a program of week-long interactive sessions held at either Campbelltown Campus, Macarthur Clinical School or Blacktown Clinical School. During the year, students will be based at appropriate hospitals, health and community-based services throughout Sydney, Bathurst and Lismore. Students will also undertake 3 online learning modules (Scientific Streams) and complete a reflective portfolio. A comparable program is delivered in the Rural Clinical Schools, which may vary in format and timing. Learning outcomes & assessment requirements are the same across all sites.
Credit Points	This subject is a one-year long integrated subject of 80 Credit Points. Because students will be undertaking different rotations at one time it is essential that the unit be seen as an integrated whole and also linked to the previous years in the program.
Pre-requisites	MEDI3006 Applied Clinical Sciences 1. Must pass each section of course prior to progression
Co-requisites	Not applicable Students are responsible for ensuring they have met all relevant pre-requisites and/or co-requisites for any subject(s) in which they are currently enrolled
Subject Not to be Counted for Credit with	Not applicable
Subject Level	Undergraduate Level 4
Assumed Knowledge	Not applicable
Attendance Requirements	Attendance is required for accreditation of the MD course by the Australian Medical Council (AMC) as outlined in the AMC "Accreditation Standards for Primary Medical Education Providers and their Program of Study and Graduate Outcome Statements" section 4.3 and 4.4 which states: • 4.3 The medical program enables students to develop core skills before they use these skills in a clinical setting. • 4.4 Students have sufficient supervised involvement with patients to develop their clinical skills to the required level and with an increasing level of participation in clinical care as they proceed through the medical program. Students must have met the attendance requirements as outlined in the School of Medicine Attendance Policy which can be found in the Applied Clinical Sciences 2 MEDI7063 Learning Guide: Attendance Requirements & Protocols for the MD program. • Clinical attachments will involve a ~35 hours per week. Rotations through the evening shifts and night shift will be at least one per term as directed by the term supervisor • MD Project attachment involves primarily self-directed study or attendance as agreed with project supervisor. However, student attendance is required at orientation and at two research skills workshops. • Scientific streams are ~5 hours per week when running • Ethics and portfolio entries are ~1 hour per week when running • A Notice of Absence (NOA) form must be submitted for all absences or for being late, within 2 working days of the absence. The NOA form should be sent to mednoa@westernsydney.edu.au with the **year** and **attachment** indicated in the subject line. • 100% attendance at 2 Campus Learning weeks. *(Refer to the School of Medicine Attendance Policy)*
Enrolment Restriction	This Subject is only available to students enrolled in 4758 (MD)
Learning Outcomes	Years 3, 4 and 5 of the MD program are integrated as a whole, so students will undertake various aspects of the clinical programs asynchronously in any of the three years. It is not possible to divide the learning outcomes on a year by year basis. The overall learning outcomes (16) are presented below. However each of the attachments will have their own learning outcomes which will be made explicit to students in the Clinical Attachment Descriptors.

Curriculum Themes	Overarching Graduate Outcomes
1. Patient Care	Provides patient centred care as a member of an interdisciplinary team under appropriate supervision.
1.1 Communication	1.1.1 Communicates empathically and effectively with patients, families and health care team members to interact, negotiate, learn and foster understanding.
	1.1.2 Establishes trusting relationships and communicates sensitively, empathically and effectively, without prejudice, with individuals and families from diverse backgrounds.
	1.1.3 Creates and manages communication and information in all media, for example orally, in writing, electronically, by telephone.
1.2 Patient Assessment	1.2.1 Assesses patient health needs, attending to physical, functional, social, cultural and psychological factors.
	1.2.2 Gathers a relevant and comprehensive patient history, generating and testing differential diagnoses.
	1.2.3 Performs an accurate and appropriate clinical examination, testing & refining differential diagnoses.
	1.2.4 Synthesises clinical findings to develop prioritised differential diagnoses and a comprehensive problem list.
	1.2.5 Selects, justifies and interprets investigations to evaluate likely diagnoses.
1.3 Patient Management	Develops, implements and monitors a management plan through a process of shared decision making which addresses the patient's unique medical, psychological and social needs and preferences:
	1.3.1 Formulates and implements (under supervision) a comprehensive management plan.
	1.3.2 Ensures that management addresses the patient's unique psycho-social, functional & cultural needs and preferences.
	1.3.3 Explores the role of integrative and complementary therapies utilised by patients for their health care.
	1.3.4 Monitors the effectiveness of management and provides continuity of care throughout the duration of clinical responsibility.
	1.3.5 Makes timely, informed and rational decisions in circumstances of uncertainty according to best practice.
	1.3.6 Performs an appropriate range of technical and practical procedures safely and effectively.
	1.3.7 Prescribes and administers an appropriate range of medications and other therapeutic agents safely and effectively.
	1.3.8 Recognises, assesses, initiates management and seeks assistance for deteriorating and critically unwell patients who require immediate care.
2. Health in the Community	**Promotes the health and wellbeing of individuals and populations, with particular focus on Greater Western Sydney, rural, regional and Aboriginal and Torres Strait Islander Australia.**
2.1 Determinants of Health & Illness	2.1.1 Evaluates the determinants of health and illness in populations.
	2.1.2 Explains how health inequities arise from the interplay of biological, socio-economic, behavioural, sociocultural and environmental factors.
	2.1.3 Discusses and evaluates the major issues and trends confronting global health, their determinants and effects on individuals and populations.
2.2 Health Needs	2.2.1 Analyses the health needs and priorities of communities and populations, taking into consideration the historical, cultural, social and political forces which impact on health and wellbeing.
	2.2.2 Evaluates a range of strategies, including patient and population oriented approaches, for illness prevention and management, and health promotion.
	2.2.3 Demonstrates culturally sensitive communication and effective engagement with diverse communities and populations.
2.3 Health Care Systems	2.3.1 Explains the roles of health agencies, services and providers and how they interact to provide health care to individuals and populations.
	2.3.2 Evaluates the effectiveness of health care systems and services in addressing individual and population needs and priorities.
2.4 Health Promotion	2.4.1 Promotes the health and well-being of individual patients and populations within the context of the culture, health status and health needs of the community of which that patient is a member.
	2.4.2 Articulates the role of advocacy and public policy in promoting and protecting health and preventing disease.
2.5 Indigenous Health	2.5.1 Explains how various factors, including historical, cultural and political, interact to influence the health of the Aboriginal and Torres Strait Islander peoples.
3. Personal and professional development	**Demonstrates and develops professional skills, responsibilities and attitudes.**

3.1 Ethical Practice	3.1.1 Aware of and adheres to accepted medical professional codes of conduct.
	3.1.2 Applies ethical principles in professional practice.
	3.1.3 Displays and reflects on, appropriate professional attitudes and values.
	3.1.4 Values patient autonomy, privacy and confidentiality.
	3.1.5 Aware of and complies with legal responsibilities and requirements, and the guidelines of regulatory bodies.
	3.1.6 Maximises patient safety, ensures quality care, and manages risk and adverse medical outcomes.
3.2 Teamwork	3.2.1 Works effectively and cooperatively as a member of a multidisciplinary team and as a member of the health care system.
3.3 Learning & Teaching	3.3.1 Engages in self and peer evaluation, lifelong learning and teaching.
3.4 Personal needs	3.4.1 Recognises own personal, physical and emotional needs and is aware of the pathways available for assistance.
3.5 Medical humanities	3.5.1 Engages in scholarship of the arts and humanities to interpret the diverse human experience of health, illness and medical care.
4. Scientific basis of medicine	**Develops and applies a sound understanding of the scientific foundations (social, basic and clinical) of medical practice.**
4.1 Applies science to practice	Applies an understanding of the social and biomedical sciences to the assessment and management of the health needs of individuals and populations:
	4.1.1 Demonstrates an understanding of the body as a complex adaptive biological system.
	4.1.2 Applies an understanding of the basic, social and clinical sciences to clinical reasoning.
	4.1.3 Explains the underlying mechanisms of health problems.
	4.1.4 Explains the underlying mechanisms of investigative and therapeutic measures, including emerging technologies.
	4.1.5 Applies an understanding of the psychological and social sciences to interpret health and illness within a social and cultural context.
4.2 Uses evidence	Seeks, critically appraises and applies best available evidence relevant to health and illness in individuals and populations.
4.3 Research	4.3.1 Takes opportunities to engage in research and scientific endeavour.
	4.3.2 Applies an understanding of research rigour by formulating answerable research questions, selecting appropriate study designs, synthesising, critically analysing and disseminating research findings.
	4.3.3 Applies an understanding of ethical principles, and relevant guidelines and laws, to the conduct of research
Unit Content	9 Week clinical rotations in: • Obstetrics & Gynaecology • Paediatrics • Mental Health (8 weeks in rural attachments) 9 Week integrated clinical rotation shared between • Oncology, (4.5 weeks) • MD Project (4.5 weeks) 2 Campus Learning Weeks 3 Scientific Streams: 'Oncology', Neuroscience' and 'Genes, growth & development'
Mode of Delivery	

Type	Hours
Contact time in clinical setting	35 hours per week
Lectures	80 hours during the subject
Online learning	

Refer to the Learning Guide for further details on Mode of Delivery. Students can only attend the classes for which they are registered and places are allocated via the Tutorial Registration (Allocate+) system. Visit: https://www.westernsydney.edu.au/currentstudents/current_students/enrolment/tutorial_registration for information on the timetable and tutorial registration.

Assessment Refer to the Assessment Policy, the Examinations Policy and the Subject Outline and Learning Guides Policy
Assessment Summary

	Assessment Item	Length/ Duration	Group (G)/ Individual (I)	Unit Learning Outcomes	Percentage	Threshold Y/N (see progression rules below)
1	**Obstetrics & Gynaecology Attachment**	**O&G comprises 25% of the overall mark in ACS2 which is made up of the following individual assessments 1a – 1c.**		1-4	**S/U**	Y
1a	Clinical Viva	6 Stations (2 written/online)	I	1-4	60% of Attachment	Y
1b	2x Written Case Report / Presentation	1500-2000 words for each report/presentation	I	1-4	40% of Attachment	Y
1c	Logbook (including mini-CEX).	Completed during 9 week attachment May include EPAs in 2023	I	1-4	S/U	Y
2	**Paediatrics Attachment**	**Paediatrics comprises 25% of the overall mark in ACS2, which is made up of the following individual assessments.**		1-4	**S/U**	Y
2a	Structured Viva	3 stations + 1 charting station	I	1-4	60% of Attachment	Y
2b	Term report	Based on 8-9 weeks May include EPAs in 2023	I	1-4	S/U	Y
2c	Multiple Choice Questions/SAQ	1.5 hours	I	1-4	40% of Attachment	Y
3	**Mental Health Attachment**	**Mental Health comprises 25% of the overall mark in ACS2, which is made up of the following individual assessments.** I		**1-4**	**S/U**	**Y**
3a	MHMSA	6 Stations	I	1-4	75% of Attachment	Y
3b	Essay	Maximum 3000 words	I	1-4	25% of Attachment	Y
3c	Logbook	Completed during 9 week attachment (8 week attachment at Lismore and Bathurst)	I	1-4	S/U	Y
3d	1x Clinical Attachment Assessment	Completed during 9 week attachment (8 week attachment at Lismore and Bathurst)	I	1-4	S/U	Y
3e	2 x Mini-CEX	Completed during 9 week attachment (8 week attachment at Lismore and Bathurst)	I	1-4	S/U	Y
4	**MD Project Attachment**	**MD Project comprises 15% of the overall mark in ACS2, which is made up of assessments 4 – 4d.**		**1-4**	**S/U**	**Y**
4a	Learning Plan/Timeline	Completed week one to focus project work	I	1-4	S/U	Y
4b	Supervisor Attachment Assessment (SAA)	Supervisor assessment of work and progression	I	1-4	30% of attachment	Y
4c	Final Report	Final report 1500 – 3000 words, submitted end of CW 5.1 in ACS3	I	1-4	70%of attachment	Y
4d	ePoster	Submitted end ACS3. Presented ACS4 (tbc)	I	1-4	N/A	N
5	**Oncology/ Palliative Care Attachment**	**Oncology/Palliative Care comprises 10% of the overall mark in ACS2, which is made up of assessments 5a, 5b, 5c, 5d. For Bathurst - A total of 4 weeks of oncology is completed over 14 weeks of an integrated attachment with medicine (ACS3) & surgery (ACS3) terms.**		**1-4**	**S/U**	**Y**
5a	Case Presentation	15 minutes	I	1-4	40% of attachment	Y
5b	Topic presentation	15 minutes	I	1-4	30% of attachment	Y
5c	Logbook	Completed during 4 week attachment	I	1-4	20% of attachment	Y
5d	Clinical Attachment Assessment	At Bathurst completed during 14 week integrated attachment with Medicine (ACS3) & Surgery (ACS3). MiniCEX and/or EPAs may be used in 2023	I	1-4	10% of attachment	Y
6	**Scientific Streams**	75 hours	I	1-4	S/U	Y
7	**PPD**	**To successfully pass PPD students need to achieve an overall satisfactory mark in assessment**		**1-4**	**S/U**	**Y**
7	Ethics presentation and assignment	Ethics presentation and assignment	I	1-4	100% of attachment	Y
8	**MD Portfolio**	**All components must be completed satisfactorily to successfully pass**		1-4	S/U	Y
8a	Advisor group presentation	15 minute presentation and participation during 90 minute tutorial in conference week 2	I	1-4	S/U	Y
8b	Advisor group showcase	MyShowcase task	I	1-4	S/U	Y
8c	Reflection essay	1000 words	I	3	S/U	Y
9	**Professionalism**	Over length of attachment	I	1,3	S/U	Y
10	**Attendance**	Over Length of Attachment	I	1,3	S/U	Y

Progression Rules

There are 27 nominated assessments in the table above. During 2023, the School of Medicine will use an overall non-graded assessment system, whereby all the above will contribute to a satisfactory or not satisfactory overall assessment for ACS2. This won't necessarily affect individual assessments but will mean that an overall numeric grade will not be given for ACS2. Satisfactory ("pass") means a good overall competent standard for ACS2.

Threshold assessments are compulsory requirements within the subject that must be met in order to pass the subject. They include mastering professional skills and/or attainment of required professional attributes.

Failure to satisfactorily complete a Threshold requirement will result in a Fail Grade for the subject.

In order to be eligible for a pass mark in ACS2, Students must:
a) Have satisfactorily (attained a mark of 50% or higher) completed each attachment. If a student fails an attachment, they will be given one opportunity to remediate that attachment as prescribed by the Head of Discipline in discussion with the Subject Co-ordinator. If the student passes the remediation they will be deemed satisfactory for that attachment. If a student fails the remediation, they will receive a Fail Grade for ACS2.
b) Have not failed two or more attachments in ACS2 on their first attempt.
c) Have met the specific assessment requirements of each attachment:

Obstetrics and Gynaecology (O&G) attachment
- Clinical Viva/written examination:
  - Must achieve ≥50%.
  - Must pass 4 or more out of six stations.
- Written case report/presentation (1 x Obstetrics, 1 x Gynaecology):
  - Students must achieve a score of 12/20 in each case presentation
- Logbook: Students must satisfactorily complete the logbook.
- Failing 1 component (Viva or Logbook or Case Report/Presentations) will result in the failed component being assessed again; if this repeated assessment is failed then this is a fail of the O&G attachment. The maximum grade that can be awarded for a repeated assessment task is a Pass grade of 50%.
- Failing 2 or more components (Viva, Logbook and Case Report/Presentations) on a first attempt constitutes a fail of the O&G attachment.

Paediatrics attachment
- Structured viva/OSCE
  - Must achieve ≥50%.
  - SAQ is linked to viva.
- Must pass 3 or more out of 5 segments (viva =3, charting =1, SAQ = 1)
- MCQ pass mark of 50% is required.
- Failing 1 component of all the assessments will result in the failed component being assessed again.
- If this repeated assessment is failed, then this is a fail of the Paediatrics attachment.
- The maximum grade that can be awarded for a repeated assessment task is a Pass grade of 50%.
- Failing Structured Viva/SAQ on a first attempt constitutes a fail of the Paediatrics attachment.

Mental Health attachment
- MHMSA:
  - Must achieve ≥50%.
  - Must pass 3 or more out of 6 stations.
- Essay – must achieve ≥50%, essay marking criteria can be found in Learning Guide
- Logbook - Students must satisfactorily complete the logbook
- Clinical Attachment Assessment x 1 and Mini- CEX x 2. Students must satisfactorily complete the Clinical Attachment Assessment and both Mini-CEX
- Failing 2 or more components (MHMSA, Logbook, Essay, Clinical Attachment Assessment and Mini- CEX) on a first attempt constitutes a fail of the Mental Health attachment.
- Failing 1 component (MHMSA, Logbook, Essay, Clinical Attachment Assessment and Mini-CEX) will result in the failed component being assessed again; if this repeated assessment is failed then this is a fail of the Mental Health attachment.
- The maximum grade that can be awarded for a repeated assessment task is a Pass grade of 50%.

Oncology/Palliative Care attachment
- Case presentation must satisfactorily complete the case presentation.
- Topic presentation: must achieve satisfactory performance or higher.
- MiniCEX to expected standard
- Clinical Attachment Assessment: must achieve satisfactory performance or higher
- Failing 1 component (Case presentation, topic presentation, Logbook and Clinical Attachment) will result in the failed component being assessed again; if this repeated assessment is failed then this is a fail of the Oncology/Palliative care attachment.
- Failing 2 or more components (Case presentation, topic presentation, Logbook and Clinical Attachment assessment) on a first attempt constitutes a fail of the Oncology/Palliative care attachment.
- The maximum grade that can be awarded for a repeated assessment task is a Pass grade of 50%

MD Project
- Updated learning plan and timeline
- Supervisor Attachment Assessment
- Final report
- ePoster
- Individual students can be required to perform further work, where project progress or learning tasks are deemed unsatisfactory, or where there are professionalism or ethical concerns regarding participation in scheduled sessions, project engagement and meetings.
- Revision and resubmission can be requested where Final Reports have been assessed as unsatisfactory. The maximum grade that can be awarded for a repeated assessment task is a Satisfactory pass grade (50%). If the repeated assessment of the Final Report is unsatisfactory, then this is a fail of MD Project attachment B.

An overall Satisfactory pass grade of 50% for MD Project Attachment B assessments must be achieved to pass the attachment.

b)Scientific Streams
- Have completed the Scientific Streams at a satisfactory level in the designated timeframe.
- Students with unsatisfactory participation or two warnings for late submission of work, will be given one chance at remediation by the Scientific Stream coordinator. Failure to satisfactorily complete the remediation task for the Scientific Streams will result

in an 'Unsatisfactory' grade being given for this threshold assessment, resulting in a Fail Grade for the subject.

c) Personal and Professional Development (PPD)
- One attempt to re- submit work to the satisfaction of the PPD Coordinator will be offered after being awarded "Not Yet Satisfactory" on a first attempt of the Ethics assessment component. The maximum grade that can be awarded for a repeated assessment task is a Pass grade of 50%.

d) MD Portfolio
- Students must attend, present and participate in the Advisor group session to a satisfactory level.
- The Myshowcase task must be submitted on time and include the Advisor group presentation, advisor feedback and a short reflection.
- One attempt to resubmit the written reflection essay or remediate the advisor session will be offered for work that is submitted on time and deemed not yet satisfactory.

e) Have met the attendance requirements as outlined in the School of Medicine Attendance Policy which can be found in the Applied Clinical Sciences 2 MEDI7063 Learning Guide: Attendance Requirements & Protocols for the MD program.

f) Students must behave professionally at all times and comply with codes of conduct and policies for professional practice as outlined by:

- School of Medicine Student Code of Professional Conduct
  https://vuws.westernsydney.edu.au/bbcswebdav/pid-4044598-dt-content-rid-29270071_1/courses/ch_som_2019/Code%20of%20Professional%20Conduct%20for%20Medical%20Students%20of%20Western%20Sydney%20University.pdf
- NSW Health Code of Conduct (https://www1.health.nsw.gov.au/pds/ActivePDSDocuments/PD2015_049.pdf)
- The Australian Health Professional Regulation Authority "Good Medical Practice"
  (http://www.medicalboard.gov.au/documents/default.aspx?record=WD10%2F1277&dbid=AP&chksum=eNjZ0Z%2FajN7oxjvHXDRQnQ%3D%3D)
- The University's Student Code of Conduct Policy
  (https://policies.westernsydney.edu.au/document/view.current.php?id=258), which includes the Student Conduct Rule
  (https://policies.westernsydney.edu.au/document/view.current.php?id=304)

Failure to uphold these inherent requirements and professional standards may result in the student being awarded a fail grade for the subject.

Withdrawal from subject

If a student withdraws from the subject prior to the session 1H census date no academic penalty is imposed and no grade is recorded on the student's academic transcript. If a student withdraws from the subject during session 1H, after the census date, they will receive an 'E' grade (Fail Discontinued) on their academic transcript. The last date to discontinue after census is the Friday that is two weeks before the Western Sydney University published start date of the exams for the session. For an explanation of the Western Sydney University grade award, please see www.westernsydney.edu.au/currentstudents/current_students/managing_your_study/exams/results. Students who have satisfactorily passed all assessments will be awarded a Satisfactory grade for ACS2. If a student has been awarded a Y grade (Continuing) in the subject, having completed at least one session of study, and subsequently withdraws from the subject, the Y grade will be converted to a 'F' grade (Fail) for the subject. In the event of serious illness or misadventure experienced by a student after the session 1H census date, the student may apply for a W grade (withdrawal without academic penalty) through the official University processes. A student returning after a year of absence or repeating ACS2 in subsequent years cannot re-submit an assignment previously submitted during the year that was failed.

NOTE: A student who fails an attachment and undergoes remediation may need to forego their Elective if Electives are supported for 2023/2024. The School of Medicine will confirm re Electives in March 2023. Electives will be optional.

Recommended Text & Resources	The Western Sydney University MD is an integrated 5 year professional entry program which emphasizes life-long and self-directed learning. Accordingly, there are no prescribed textbooks for Subjects in the MD program. Please see Clinical Attachment descriptors for list of recommended readings. Students will make extensive use of the on-line textbooks already available in the library.
On-line Learning	vUWS Students are expected to consult vUWS at least twice a week as all announcements will be made via vUWS and teaching material will be regularly updated and posted online. The School of Medicine makes extensive use of vUWS for the provision of learning resources and information. For ACS2 the School will be using Online learning packages (Scientific Streams) which students must complete. These will be accessed from within vUWS but will use the open source (free) Learning Activity Management System (LAMS). 3 Scientific Streams will be undertaken in ACS2. Each will take approximately 25 hours for students to complete.
Special Requirements – Legislative Pre-requisites	Students are required to have obtained all the necessary documentation to be verified by NSW ClinConnect. This verification is a requirement of NSW Health for all students enrolled in medical programs. If a student fails to produce this documentation to ClinConnect they will be unable to attend their hospital tutorials and placements. Attendance at the hospital is a mandatory requirement of the Unit and failure to attend will result in a 'CF' (Compulsory Fail) of the unit. The documents that are to be provided to ClinConnect are: 1. National Police Certificate 2. Adult Health Immunization Schedule including Covid-19 vaccinations. 3. Code of Conduct Agreement Students are also expected to meet the inherent requirements of the course as outlined in the University of Western Sydney Inherent Requirements for Medicine Courses: (https://www.westernsydney.edu.au/ir/inherent_requirements/inherent_requirements_for_medicine_courses).

	Inherent requirements are the fundamental components of a Course or Unit, that are necessary to demonstrate the capabilities, knowledge and skills essential to achieve the core learning outcomes of the Course or Unit, while preserving the academic integrity of the university's learning assessment and accreditation processes. The Disability Education Standard, Section 3.4 (3) states: "In assessing whether an adjustment to the Course, Unit of the Course or program in which the student is enrolled, or proposes to be enrolled, is reasonable, the provider is entitled to maintain the academic requirements of the Course or program, and other requirements or components that are inherent in or essential to its nature. Note: In providing for students with disabilities, a provider may continue to ensure the integrity of its Courses or programs and assessment requirements and processes, so that those on whom it confers an award can present themselves as having the appropriate knowledge, experience and expertise implicit in the holding of that particular award."
Special Requirements – Essential Equipment	1. **Stethoscope** 2. Pencil Torch 3. Watch (with a second hand or display)