



ACoRD

Advancing Co-creation of RLOs to Digitise Healthcare Curricula

Chin Hai Teo

UM eHealth Unit, Faculty of Medicine, Universiti Malaya, Kuala Lumpur
On behalf of the ACoRD Team



Co-funded by the Erasmus+ Programme of the European Union

Partners



Outline

- About ACoRD
- About RLOs
- Development of ACoRD RLOs
- Evaluation of ACoRD RLOs
- Beyond ACoRD



About ACoRD



About ACoRD

- The ACoRD project has started in Nov 2018 – May 2022.
- Capacity building project to develop reusable learning objects (RLOs) in Malaysia.
- Guided by the University of Nottingham UK, University of Stavanger, Karolinska Institutet.
- Funded by the European Union ERASMUS+ Capacity Building in Higher Education (CBHE) programme.





Advancing Co-creation of RLOs to Digitise Healthcare Curricula



14th - 18th January 2019
University of Nottingham, UK

15th, 17th & 18th
June 2019
University of
Malaya, Malaysia



2nd – 6th
December 2019
Universiti Putra
Malaysia,
Malaysia



23rd – 25th February 2022
Taylor's University

Final Dissemination Event: ASPIRE4All (Hybrid)



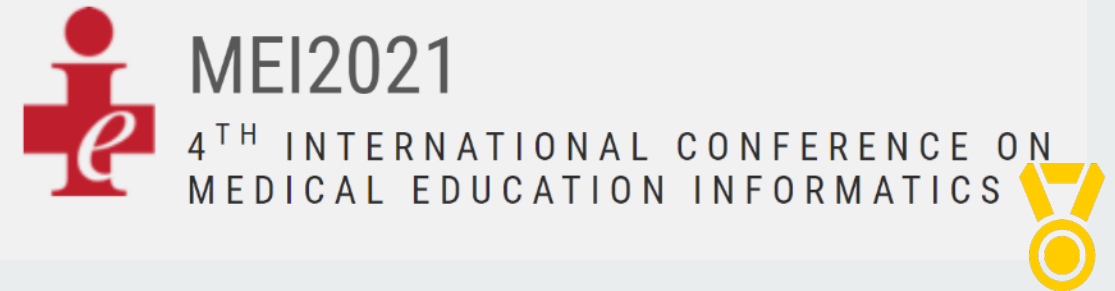
Achievements



Outstanding Open
Educational
Resources (OER)
Award



Invention, Innovation
& design on e-
Learning (IIDEL)





About RLOs

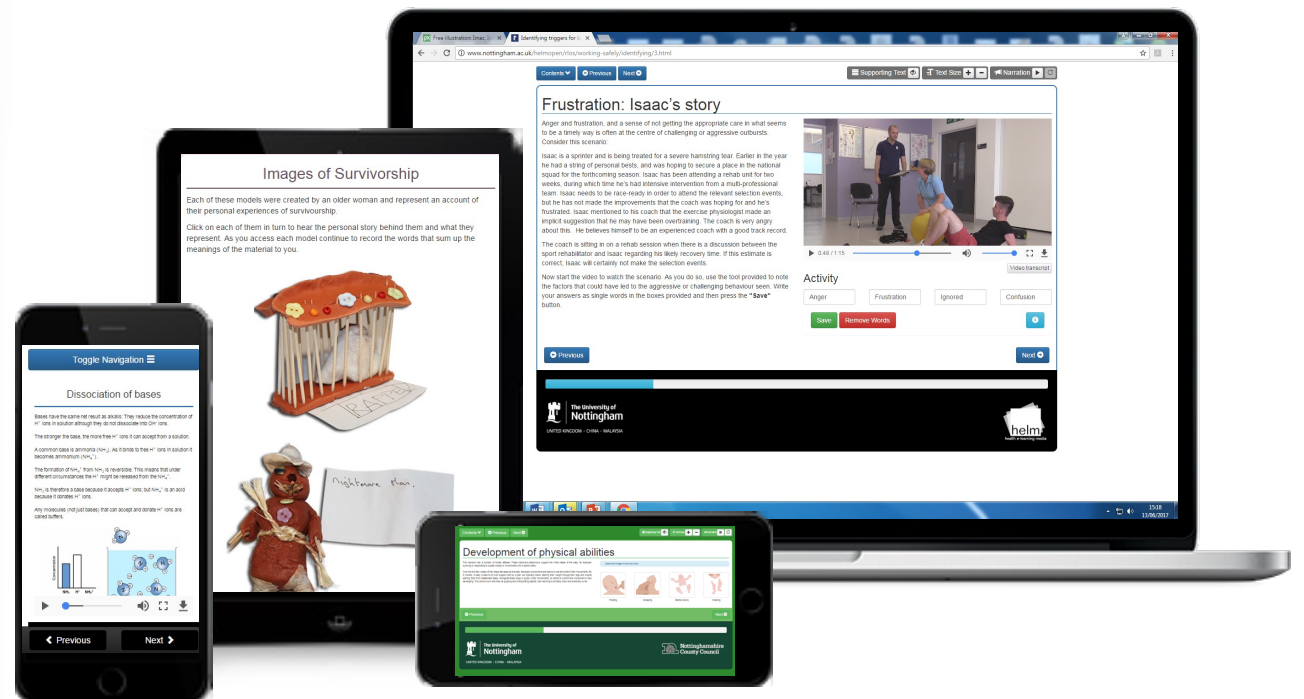
What is a Reusable Learning Object (RLO)?

The screenshot shows the University of Nottingham HELM Open website. At the top, there is a navigation bar with links for Study, Research, Business, Global, About, and A-Z. A search bar is present with the text 'keyword(s)'. Below the navigation bar, there is a section for 'Coronavirus (COVID-19)' with a link to 'Read the University's advice and daily updates for staff, current students and prospective students'. A search bar for 'Search our Learning Resources' is also visible. The main content area features a grid of 'Latest RLOs' (Reusable Learning Objects) with various topics such as 'Cultural competence in culturally mixed teams', 'Disabling Barriers/Inhibitors and Empowering Cultural Communication', 'PPE Personal Protective Equipment', 'Bacteria and Viruses Compared', 'Sexual Safety for women in In-Patient Mental Health Care Contexts', 'Getting Infection Right First Time', 'Admission to Hospital', 'Acolhimento do cliente num hospital', 'Osmosis and Diffusion', and 'Allied Health Professional (AHP) Health and Work Report'. There are also several award logos, including 'TMC AWARDS 2019' and 'GOLD WINNER REIMAGINE EDUCATION AWARDS 2018'.

Numerous definitions for an RLO exist [9, 10] however our definition of an RLO is: 'an interactive, multimedia web-based resource based on a single learning objective which can be used in multiple contexts'.

Basically, they are bite sized chunks of e-learning, focusing on a specific topic. They are highly visual with an auditory component and high quality graphics and take the average student about 15 minutes to complete.

Bath-Hextall, F., Wharrad, H. & Leonardi-Bee, J. BMC Med Educ 11, 18 (2011).



Characteristics of an RLO



Evidence-based; pedagogical design-based; multimedia learning theories (*Mayer; *Wharrad & Windle; and others*)

Small in size (5-15 minutes)
Miller's Law 7 ± 2 in working memory
(Chunking theory)

Focused on single learning goal/objective

Uses a mix of media

Standalone

Interactive

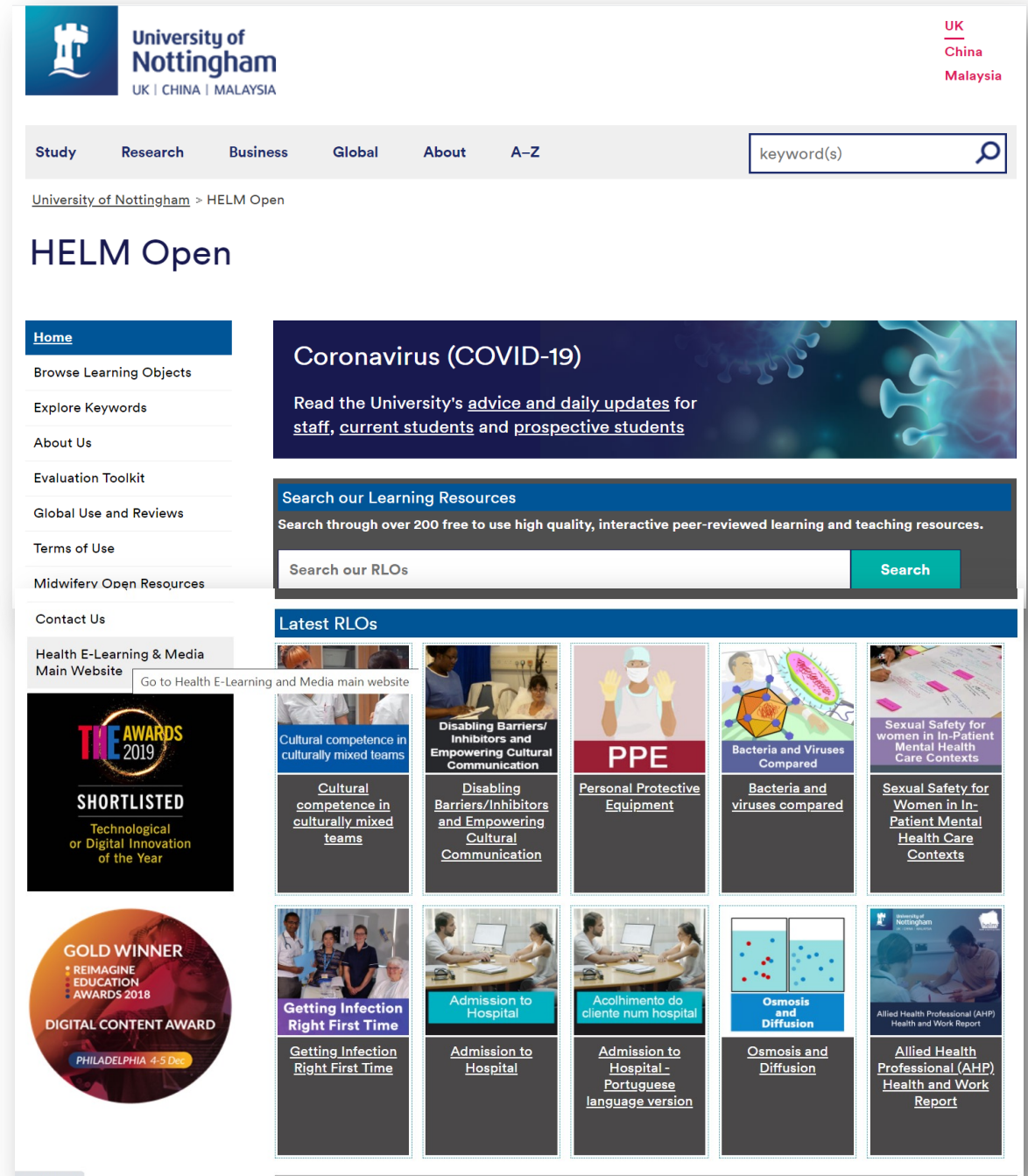
Designed by communities (*Community of Practice, Wenger et al 2002*)

Peer reviewed

*Wharrad, Kent, Allcock and Wood (2001) *Nurse Education Today* 21, 579–588
Windle, McCormick, Dandrea & Wharrad (2010) *BJET* 42, 811-823

HELM Open

<https://www.nottingham.ac.uk/helmopen/>



The screenshot shows the University of Nottingham HELM Open website. At the top left is the University of Nottingham logo with the text "University of Nottingham" and "UK | CHINA | MALAYSIA". To the right are links for "UK", "China", and "Malaysia". Below the logo is a navigation menu with "Study", "Research", "Business", "Global", "About", and "A-Z". A search bar contains the text "keyword(s)". Below the navigation is a breadcrumb trail: "University of Nottingham > HELM Open". The main heading is "HELM Open". On the left is a sidebar menu with "Home" (highlighted), "Browse Learning Objects", "Explore Keywords", "About Us", "Evaluation Toolkit", "Global Use and Reviews", "Terms of Use", "Midwifery Open Resources", and "Contact Us". Below the sidebar is a "Health E-Learning & Media Main Website" link with a sub-link "Go to Health E-Learning and Media main website". The main content area features a "Coronavirus (COVID-19)" banner with the text "Read the University's [advice and daily updates](#) for [staff](#), [current students](#) and [prospective students](#)". Below this is a "Search our Learning Resources" section with a search bar and a "Search" button. The "Latest RLOs" section displays a grid of 12 resource cards. The first two cards are award announcements: "THE AWARDS 2019 SHORTLISTED Technological or Digital Innovation of the Year" and "GOLD WINNER REIMAGINE EDUCATION AWARDS 2018 DIGITAL CONTENT AWARD PHILADELPHIA 4-5 Dec". The remaining 10 cards are: "Cultural competence in culturally mixed teams", "Disabling Barriers/Inhibitors and Empowering Cultural Communication", "PPE Personal Protective Equipment", "Bacteria and Viruses Compared", "Sexual Safety for women in In-Patient Mental Health Care Contexts", "Getting Infection Right First Time", "Admission to Hospital", "Acolhimento do cliente num hospital", "Osmosis and Diffusion", and "Allied Health Professional (AHP) Health and Work Report".

ACoRD RLOs



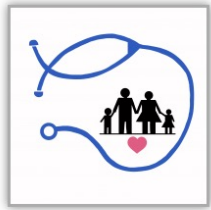
Please visit acord.my to view the RLOs.



23 reusable learning objects (RLOs) of various health-related topics



Prescription Writing Back to Basics



Principles of Family Medicine



Treatment Plan for Acute Illness



Confidentiality



Ethical Reasoning



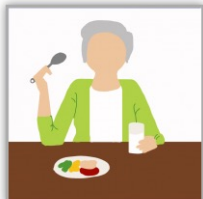
Using Nicotine Patches for Smoking Cessation



Using Nicotine Gum for Smoking Cessation



Using Varenicline for Smoking Cessation



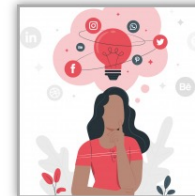
Factors Affecting Nutrition in Elderly



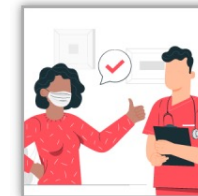
Growth Faltering in Children



Consent



Social Media Professionalism



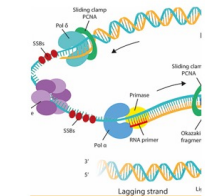
Doctor Patient Relationship



Body metabolism



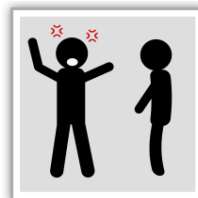
DNA Repair



DNA replication



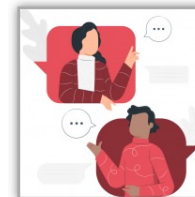
Literature Search



Identifying Challenging Behaviours



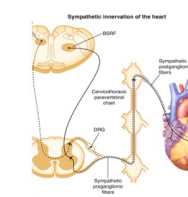
Breaking Bad News



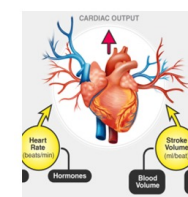
Verbal Skills and Non-Verbal Skills



Counselling Skills



Neural regulation of cardiac function



Cardiac Output

Quick Demo

Development of ACoRD RLOs

RLO Co-creation Development Framework



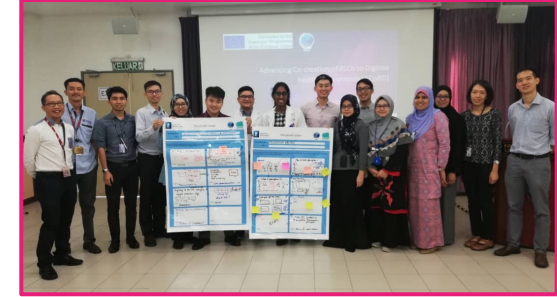
Aims

A



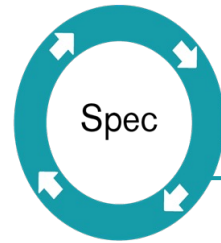
Storyboarding

S



Population

P



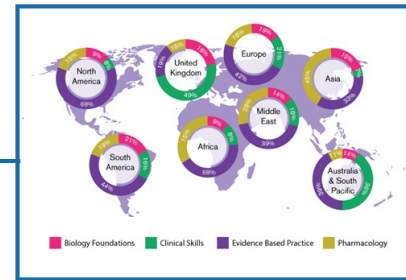
Implementation

I



Release

R



Evaluation

E



School of Nursing, University of Nottingham

Presentation

Text	Imagery
<p>Section 1 Patient suffering from ischemic heart attack, a condition which is caused by temporary disruption in blood supply to part of the heart. What happened internally within the blood vessels?</p>	
<p>Section 2 Cholesterol can build up in the artery wall, restricting the blood flow to your heart, brain and the rest of your body. It also increases the risk of a blood clot developing somewhere in your body. Your risk of developing coronary heart disease also rises as your blood's cholesterol level increases. How cholesterol accumulates within the artery wall?</p> <p>https://www.youtube.com/watch?v=sPEMuOKksWU</p>	
<p>Section 3</p> <p>Step 1 During receptor-mediated endocytosis various extracellular nutritional and regulatory molecules bind to plasma membrane receptors.</p> <p>Step 2 A few receptor ligands will translocate to a specific site forming a pit. The transmembrane portion of the receptor will recruit clathrin.</p> <p>Pause and pop up in between the video.</p>	 0.00 - 0.54

HELM Open - Learning Objects for Healthcare

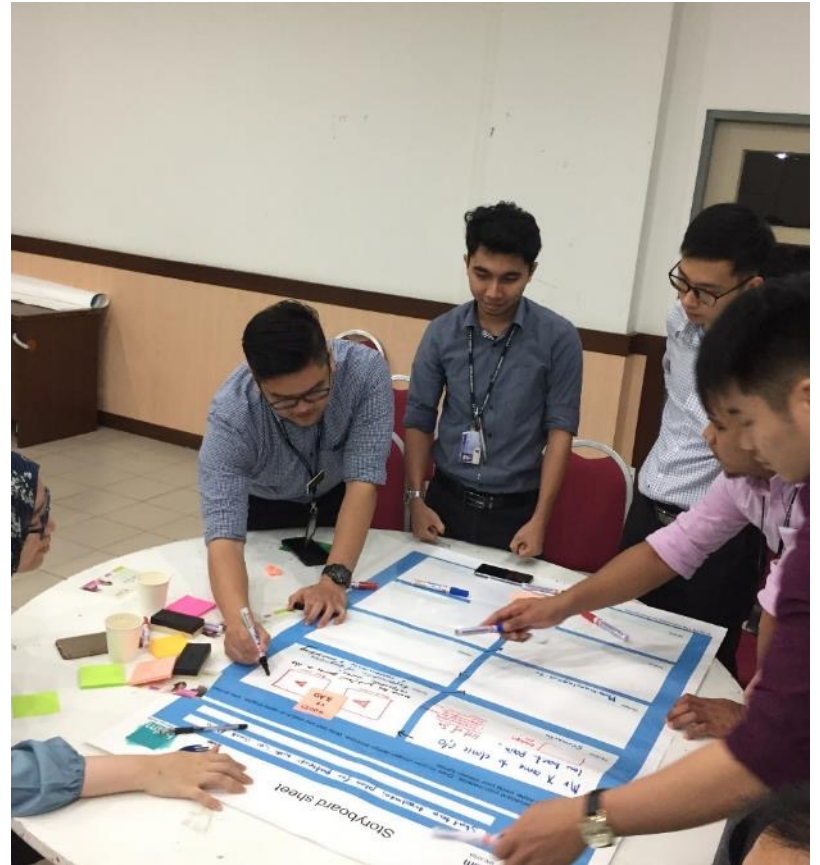
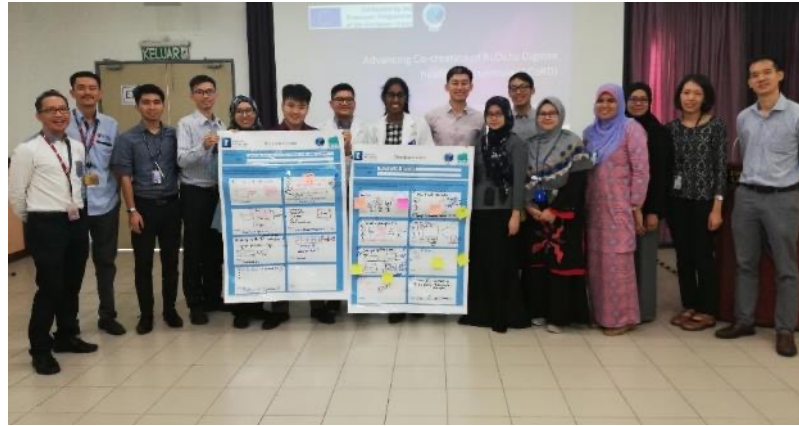
Search our Learning Resources

Search through over 200 free to use high quality, interactive peer-reviewed learning and teaching resources.

Search for RLOs

Latest RLOs:

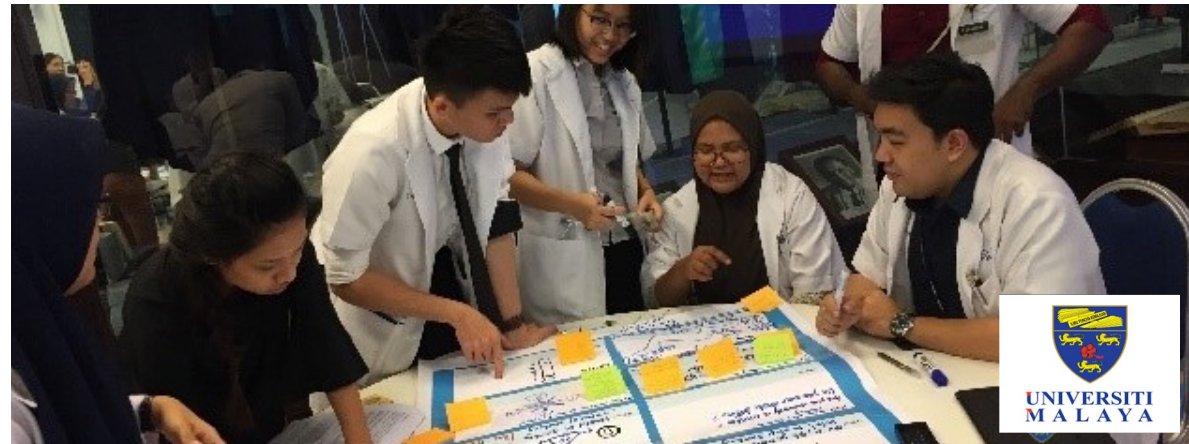
- Probability
- Our child
- Introduction to child development
- Our CME
- Introduction to child development



Students as co-creators



Storyboard Workshops



Nottingham UK | CHINA | MALAYSIA
ACORD health e-learning media

Working RLO title **PRESCRIPTION WRITING**
Team _____

Use these panels to storyboard your material. Draw on your chosen design template. Write text and sketch or name images. Use arrows to indicate navigation route, using your chosen format.

1. **Analogue**
Notes:

2. **How to Write prescriptions?**
Notes: **to highlight the important aspects of Rx**

- 1. Pt. identifies rx & medicine name of pt?
- 2. Weight up for pounds

3. **What is prescription? R**
Notes:

4. **Now Your Turn**
Notes:

5. **Can you spot the errors?**
Notes:

6. **IV Route**
Notes:

7. **Now it's counselling & explain technique/prescription.**
Notes: **This is the next session**

8. **END!**
Notes:

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University of Nottingham UK | CHINA | MALAYSIA
ACORD health e-learning media

Storyboard sheet

Working RLO title **Safe and rational prescribing : Back to basics**
Team **UM**

Use these panels to storyboard your material. Draw on your chosen design template. Write text and sketch or name images. Use arrows to indicate navigation route, using your chosen format.

Aim
Notes: **1. To understand the "ingredients" for a prescription. 2. To demonstrate correct prescription writing**

Diagnosis
Notes:

Structure of a prescription
Notes: **Description of actual prescription**

Route of admin	Dmg name	Dose/unit	Frequency	Duration

Explanation
Notes: **Route of administration**

- IV - intravenous
- IM - intramuscular
- PO - oral
- SC - subcutaneous
- LA - local application/topical
- Supp - Suppository

Choose correct option:
Notes: **Flaggy!**

- PCM
- Paracetamol
- metronidazole

Dosage
Notes: *** pop up rational/learn point**

- 0.50g
- 0.50g
- 50.0 mg
- 50 mg

Frequency & duration
Notes: *** pop up - explain abbreviations -> show interval**

Assessment Quiz
Notes: **Scenario 1 ... Scenario 2 ...**

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Produced RLO: <http://acord.my/RLOs/prescription-writing>



Storyboard sheet

Team **Pikachu team**


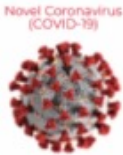


Working RLO title


"RLO design and learning during Covid – benefits and challenges" from teaching, research and technology development perspectives.

Use these panels to storyboard your material. Draw on your chosen design template. Write text and sketch or name images. Use arrows to indicate navigation route, using your chosen format




Intro about COVID19 pandemic

Video - Someone talk about the impact of the pandemic on teaching



Notes

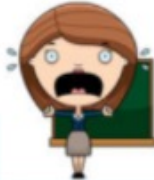
Notes

Challenges

Increase support needed from learning technologists

Research challenges - moving to online methodologies

need to look for alternative assessments



Notes


Benefits

Motivated to use RLO for teaching
Promote communities of practice sharing

RLOs are simple and easy to use

more enthusiasm for digital learning from educators and students?

motivation one of the most important factors in the success of training (Chapman et al. 2013).



Notes

How to teach during pandemic? **Solution**

RLOs

Zoom


MURAL?

Social Media for communication

Videos

Student Feedback

Interaction



Notes

How to conduct research during pandemic? **Solution**




To use online platforms to reduce face to face contacts

***Ethics amendment**

Notes

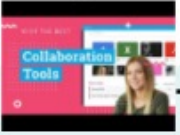
Benefits

Tech development? **Solution**



mitigate lack of resources for content development

online co-creation using cloud



Notes

QUIZ TIME!

Q1

Q2

Q3

Resources

1

Notes

'It was fun and also tested my knowledge on the topic being discussed on '

'to be able to voice up our opinion as students or as someone who uses this study materials '

'Very engaging and allowed us to put our creative mind to work'

'Critical minded people which helps in building up more brilliant ideas. '

'Learning can be more fun and easier to understand. '

'This workshop provides a platform for us to voice out the learning methods that we are hoping for in the future. '

'It is interactive and it focuses on the students need and aim."'

'Fun and creative way of learning'

'It makes me understand the importance of RLO and how to make a good and simple RLO to sustain interest and improve understanding'

'interactive innovation'

'It helps me to become more creative'

'very good exposure for me as students '

Feedbacks from learners

RLO Co-creation Development Framework



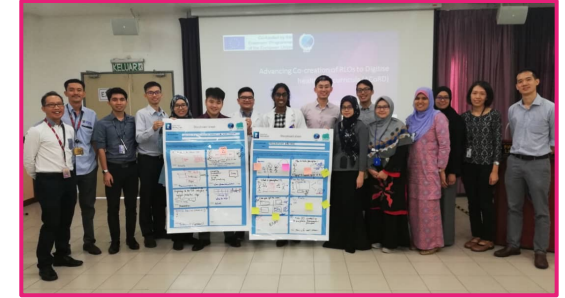
Aims

A



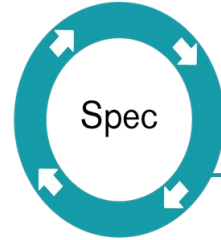
Storyboarding

S



Population

P



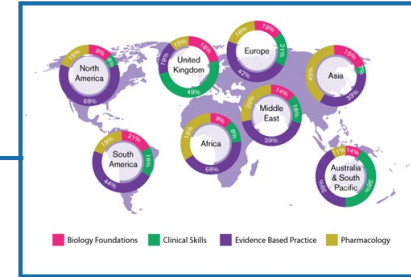
Implementation

I



Release

R



Evaluation

E



School of Nursing, University of Nottingham

Presentation

Text	Imagery
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HELM Open - Learning Objects for Healthcare

Search our Learning Resources

Search through over 200 free to use high quality, interactive peer-reviewed learning and teaching resources.

Search for RLOs

Latest RLOs:

- Introduction to the laboratory that challenges in healthcare setting
- Probability
- Our CME
- Introduction to child and adolescent development - Grow wise!






School of Health Sciences
Reusable Learning Object Specification

Title	To share or Not to Share?
Description	This RLO focuses on the ethics of using social media, specifically in the healthcare setting.
Learning Objective	<ol style="list-style-type: none"> To describe & discuss good and poor professional use on social media in the healthcare setting. To evaluate & reflect real life scenarios and professional use on social media in the healthcare setting.
Author	Azeema (ACoRD) UPM/NGU/Rediff
Collaborators	Hafizhan (ACoRD) UPM/Mohamed/Peter Shamaz (ACoRD) / John Kassim/Ping Han (ACoRD) / Lee/Nurul Azeelina (ACoRD)/Kashwanudin/Saizina (ACoRD) / Sharif Ghazali

Presentation

After viewing Learning Object (LO) content in the left-hand column, visit the ideas for illustrative images and animations in the right-hand column. Use the text they're building. Alternatively, produce images on separate sheets and/or from your graphics packages (e.g. PowerPoint, Photoshop) and incorporate them into the images' section. The text should be copied up the 'Storyboard' sections, with each section forming the storyboard page in the page file in the online RLO, and being a sub-section of content if possible. You can refer to other sections of the RLO (e.g. 'See on screen in the previous page') to also facilitate the review of individual RLO content by teachers who may only visit 5-10% of the RLO.

Text	Images
<p>Introduction to SA's in counseling</p> <p>Counseling is a vital role for healthcare providers to help patients, especially for problems that need further modification or cause complex psychological issues. There are many techniques used to</p>	<p>VIDEO with voice up conversation bubbles in slides from screenshot of video on the slide</p> <p>Storyboard of a doctor's consultation with the doctor and one male patient aged around 40-50 in early 30's</p>

GOOD AND BAD NON-VERBAL COMMUNICATION SKILLS

PARAVISION AND TEXT

These are the elements that are related to the non-verbal communication skills.

- Body posture (how we stand or sit)
- Eye contact
- Facial expression
- Touch

All the end of this RLO, you are able to identify issues GOOD and BAD non-verbal communication skills and the importance of having good non-verbal communication skills, to effective patient-doctor communication.



Activity From HELM Ability Catalogue

Search & Identify



Specification writing workshop

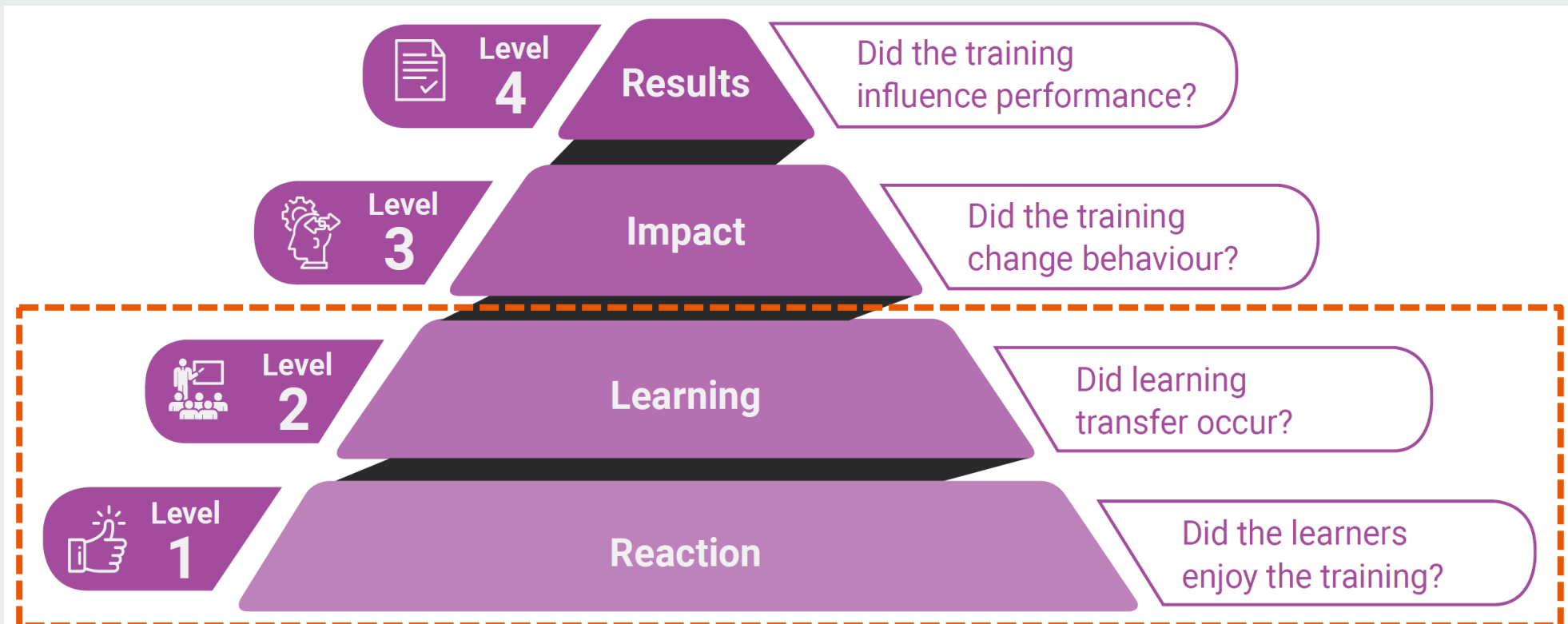
Evaluation of ACoRD RLOs

Evaluation

Objective: This study aimed to evaluate users' **reaction** on using the RLOs and its impact on **learning**.

Evaluation

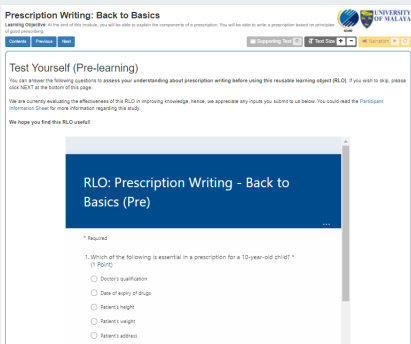
- The evaluation of the RLOs was guided by Kirkpatrick's Model focusing on Reaction and Learning.



Evaluation

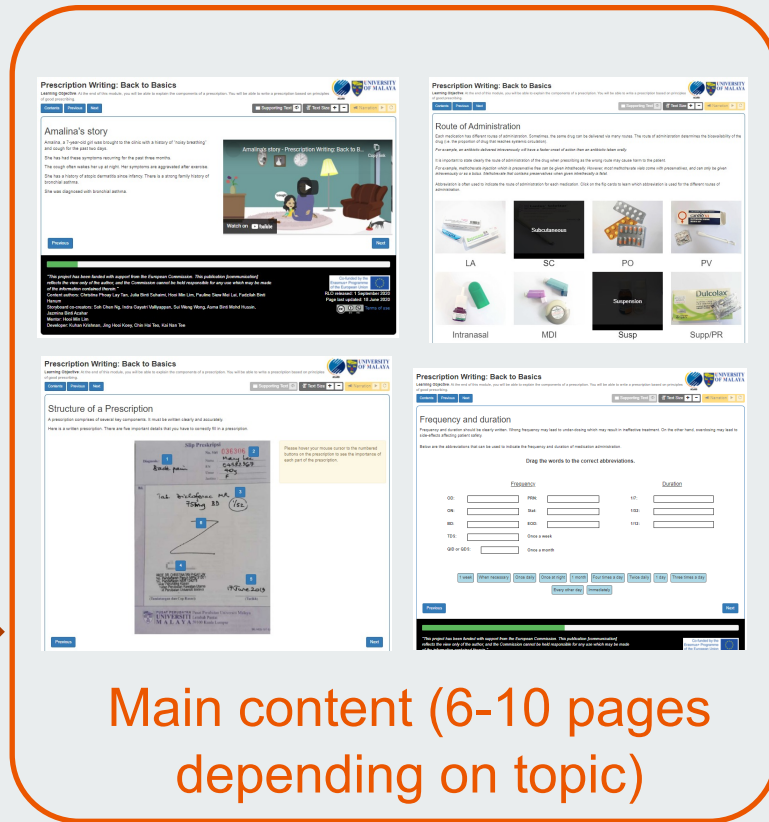


Pre-use

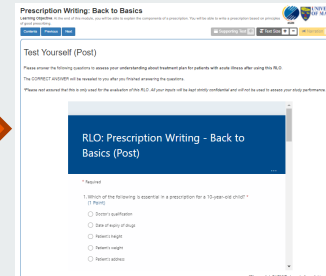


LEARNING questionnaire

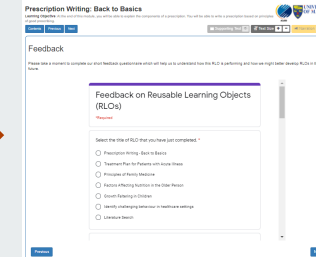
Main content (6-10 pages depending on topic)



Immediate-post-use

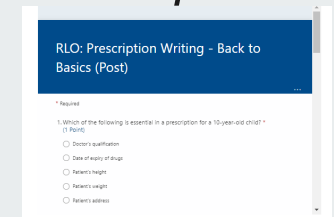


LEARNING questionnaire



REACTION questionnaire

6-week post-use



LEARNING questionnaire

Evaluation

REACTION (Questionnaire)

- usefulness, user-friendliness and open-ended reaction comments
- analysed descriptively and thematically

LEARNING (Questionnaire)

- questions on knowledge and confidence were set according to each RLO topic
- knowledge score and confidence level at different timepoints were compared using inferential statistics

REACH (Google Analytics)

- passively measure number of users (with demography) and pattern of use

Reach

RLO	Date launched	Number of users accessed the RLO	No of countries accessed
RLO 1: Prescription Writing: back to basic	01-Sep-20	530	11
RLO 2: Treatment of acute illness	01-Sep-20	366	10
RLO 3: Principles of family medicine	01-Sep-20	467	8
RLO 4: Factors Affecting Nutrition in the Older Person	01-Nov-20	310	8
RLO 5: Growth Faltering in Children	17-Sep-20	363	10
RLO 6: Identify challenging behaviour in healthcare settings	01-Mar-21	184	7
RLO 7: How to conduct a literature search	01-Nov-20	1014	10
RLO 1: Confidentiality	04-Jan-21	234	8
RLO 2: Breaking Bad News	05-Jun-20	187	10
RLO 3: Doctor-Patient Relationship	28-Feb-21	97	6
RLO 4: Consent	02-Dec-20	212	4
RLO 5: Verbal Skills and Non-verbal Skills	01-Jun-20	336	9
RLO 6: Counselling Skills	10-Jul-20	187	10
RLO 7: Ethical Reasoning	18-Sep-20	335	8
RLO 8: Social Media Professionalism	17-May-20	388	10
RLO1: Using Nicotine Gum for Smoking Cessation	10-Jan-20	432	8
RLO2: Using Nicotine Patches for Smoking Cessation	12-Mar-20	511	10
RLO3: Using Varenicline for Smoking Cessation	15-Jan-20	418	8
RLO4: Body metabolism	30-Mar-20	191	9
RLO5: DNA repair	26-Jun-20	365	10
RLO6: DNA replication	27-May-21	179	10
RLO7: Cardiac Output	01-Nov-20	224	10
RLO8: Nervous regulation of the heart	01-Nov-20	92	5

As of 24 Feb 2022,

7622

people accessed

any of the ACoRD RLOs,
accumulatively

who were from

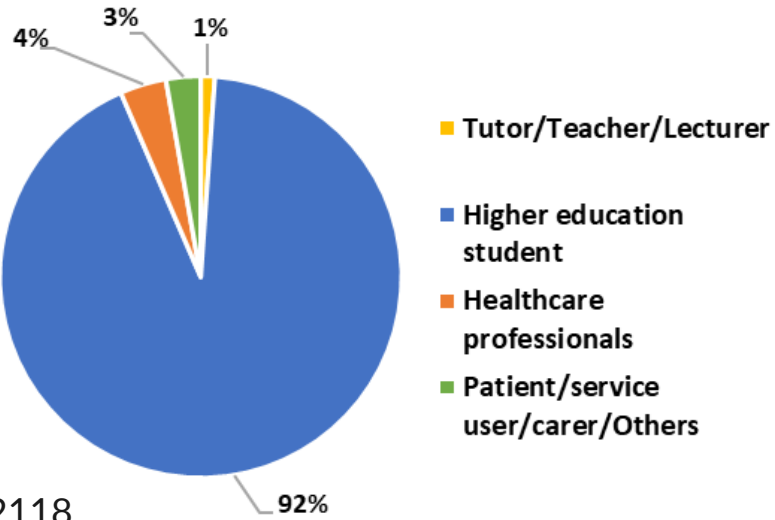
11

countries globally.

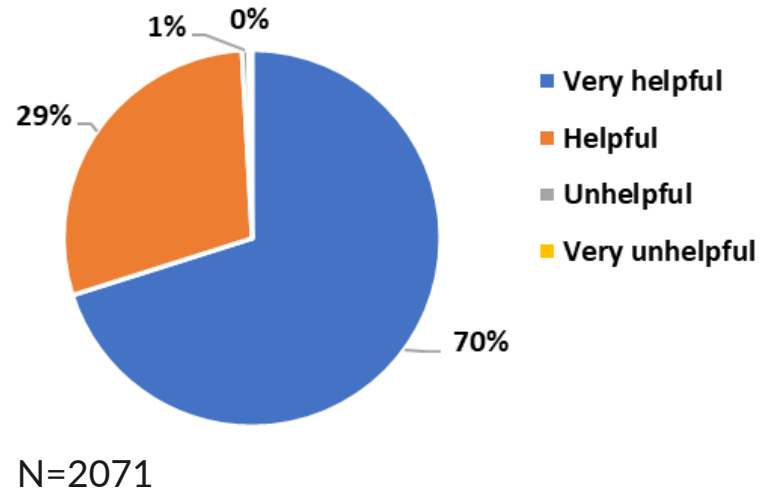
Reaction



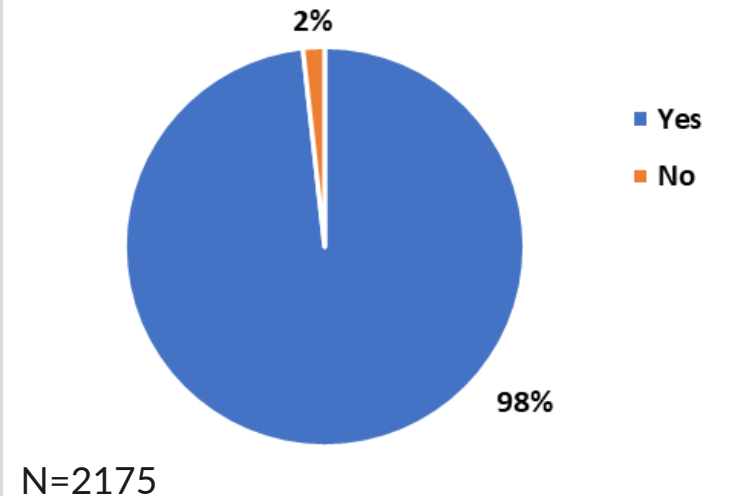
Using this RLO to learn/support learning as a



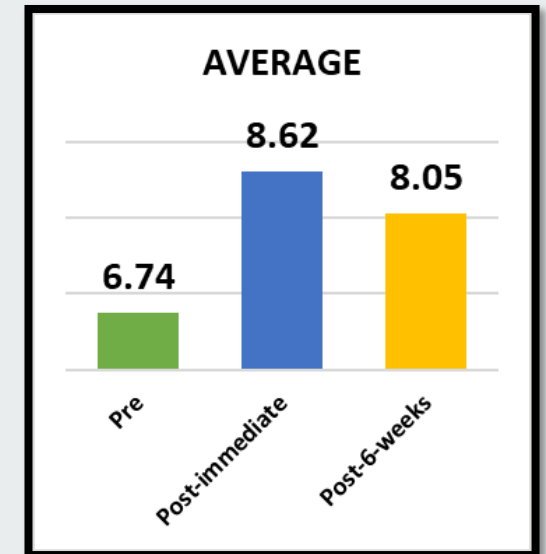
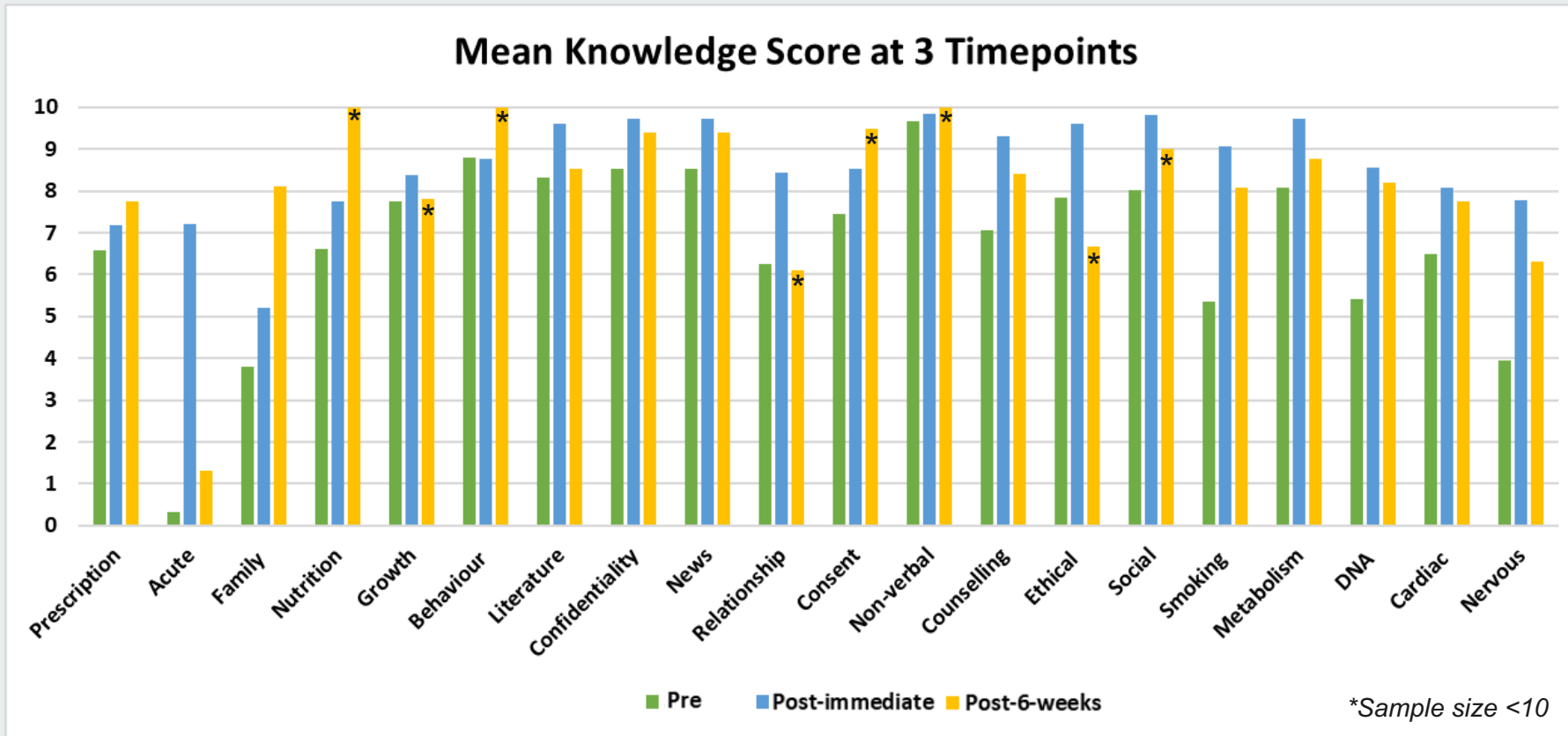
How helpful has the resource been for learning this subject?



Would you recommend it to others?



Learning

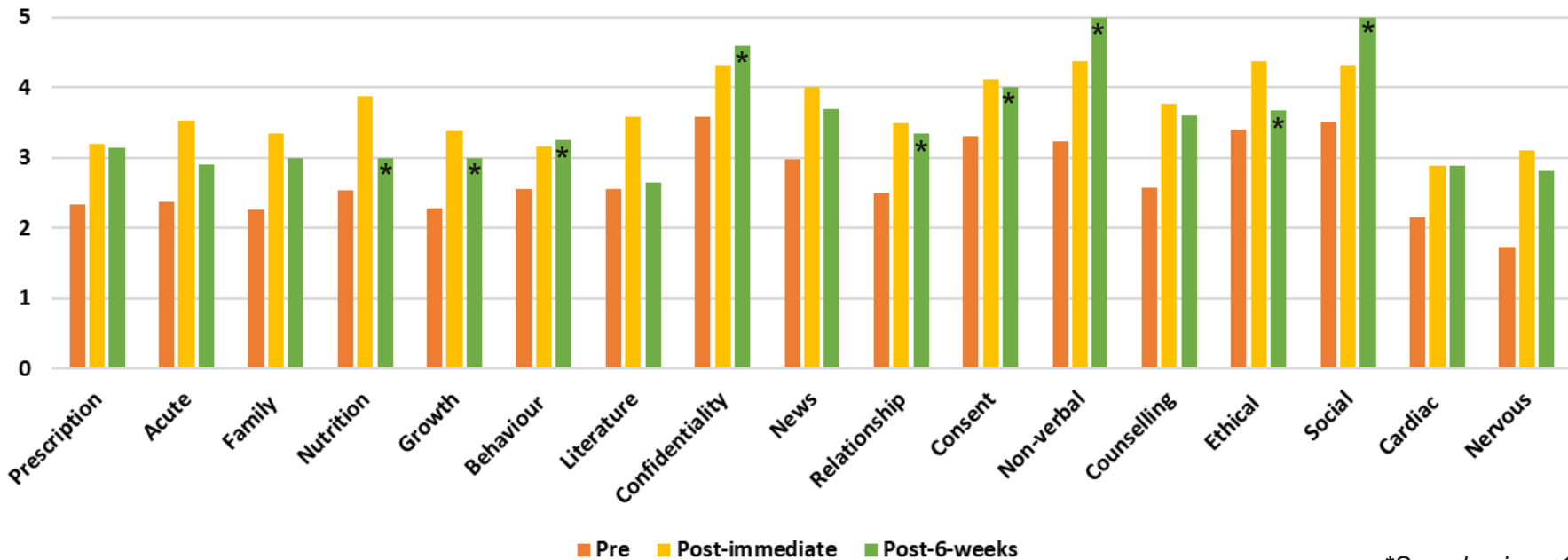


Mean knowledge score increased from pre (6.74) to post-immediate (8.62) and decreased slightly at post-6-weeks (8.05)

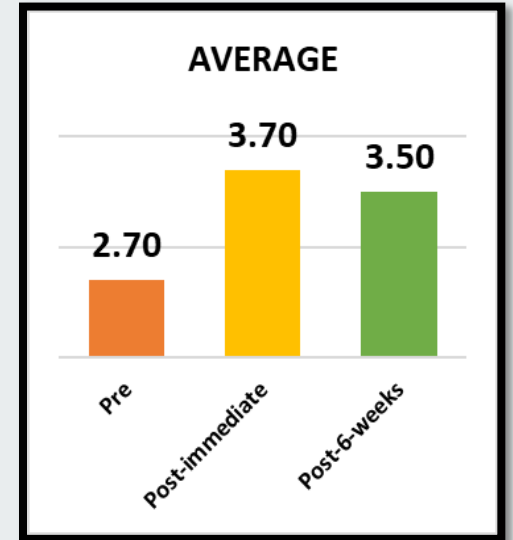
Pre vs Post-immediate (P<0.001)
Pre vs Post-6-week (P<0.001)

Learning

Mean Confidence Score at 3 Timepoints



*Sample size <10



Mean confidence score increased from pre (2.70) to post-immediate (3.70) and decreased slightly at post-6-weeks (3.50)

Pre vs Post-immediate (P<0.001)
Pre vs Post-6-week (P<0.001)

Evaluation

- Students have generally positive **reaction** towards RLOs due to its simplicity, ease of usage and interactivity, in all three 3 PCUs
- Measurement of **learning** showed significant improvement of knowledge and confidence immediately and over time.
- Past studies have reported that RLOs improved knowledge (Windle RJ et al. BJET 2010). This study share similar findings, besides adding to the body of evidence about knowledge retention after using RLOs.

Are RLOs effective learning resources?

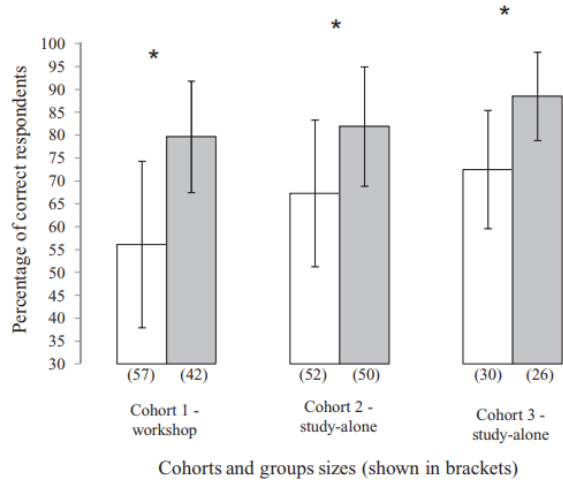


Figure 2: The average correct response rate for multiple choice questions relating to chemistry in each cohort's summative examination. Values shown are mean \pm standard deviation. * $p < 0.001$ chi-squared analysis when compared with control group. \square , cohorts with access to reusable learning objects; \square , date-matched cohorts without reusable learning objects implementation

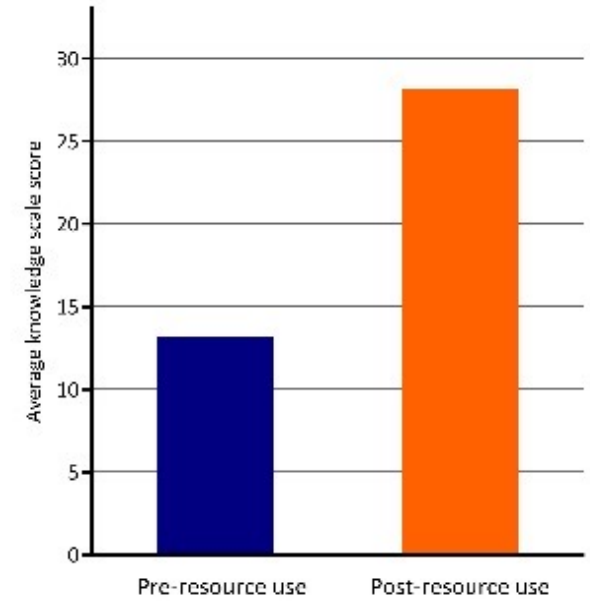
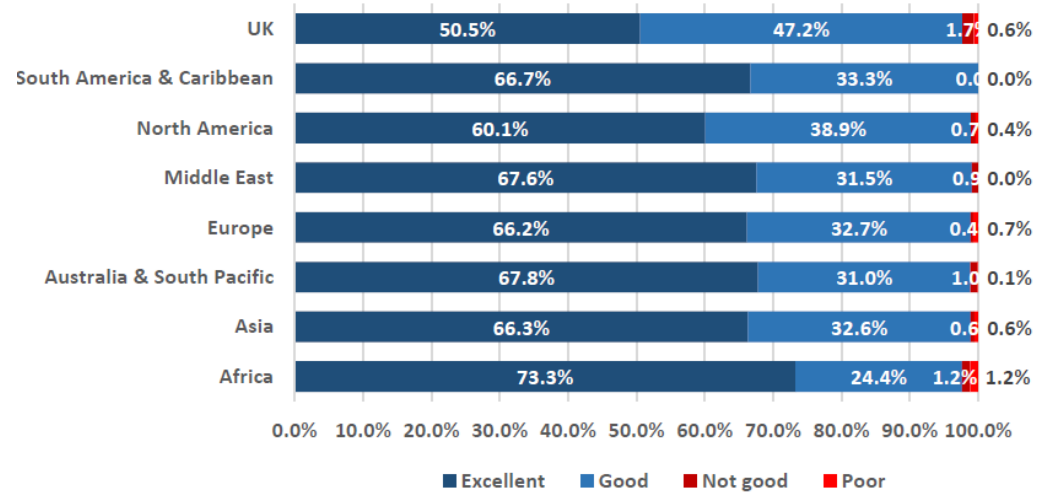
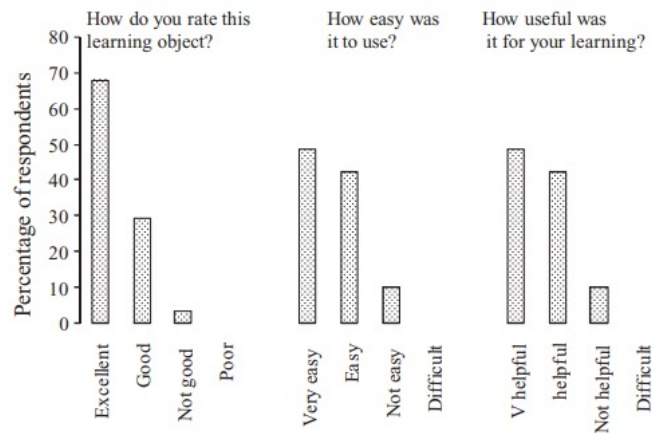


Figure 1. Average score on the Preterm Birth Knowledge Scale before and after using the e-learning resource. Scores can range from 0 to 33; higher scores indicate greater knowledge.



Limitation

- Limitations due to the pragmatic data collection approach
 - Low sample size at 6-week despite reminders
 - RLOs launched at different timeline – different number of participants
 - Baseline score for knowledge is quite high, difficulty to show difference (ceiling effect) – not restricted to new learners
- Future studies could consider evaluation covering Kirkpatrick's Behaviour (Lvl 3) and Results (Lvl 4).



Beyond ACoRD

Beyond ACoRD



Please visit acord.my to view the RLOs.



To disseminate ACoRD RLOs to a wider context to benefit all.



Prescription Writing Back to Basics



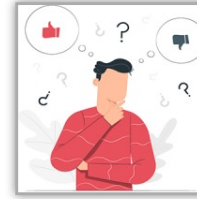
Principles of Family Medicine



Treatment Plan for Acute Illness



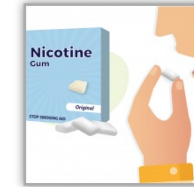
Confidentiality



Ethical Reasoning



Using Nicotine Patches for Smoking Cessation



Using Nicotine Gum for Smoking Cessation



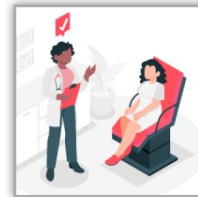
Using Varenicline for Smoking Cessation



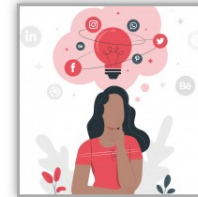
Factors Affecting Nutrition in Elderly



Growth Faltering in Children



Consent



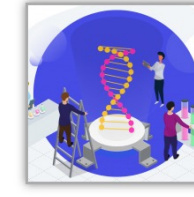
Social Media Professionalism



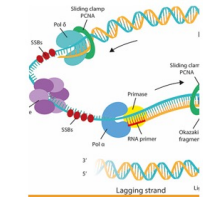
Doctor Patient Relationship



Body metabolism



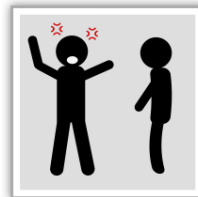
DNA Repair



DNA replication



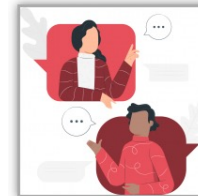
Literature Search



Identifying Challenging Behaviours



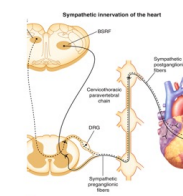
Breaking Bad News



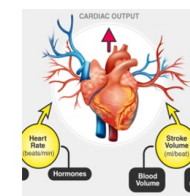
Verbal Skills and Non-Verbal Skills



Counselling Skills



Neural regulation of cardiac function



Cardiac Output

Catalogued at Merlot.org



Filter by

Discipline

- Business (1)
- Science and Technology (2)
- Social Sciences (1)
- Workforce Development (3)

Material Type

- Animation (2)
- Assignment (1)
- Learning Object Repository (8)
- Online Course Module (1)
- Open (Access) Textbook (1)

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- College General Ed (22)
- College Lower Division (23)
- College Upper Division (3)
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- Has No Cost (8)
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1-23 of 23 results for: ACoRD


<h3>Modulación: Acordes Puente</h3> <p>La modulación consiste en cambiar de tonalidad. La denominada modulación diatónica se basa en colocar un acorde puente... see more</p> <p>Material Type: Animation Author: Luis Nuño Fernández Date Created: December 1, 2019 Date Modified: December 1, 2019</p> <p>More info Bookmark Go to material</p>	<h3>Acordes y Tonalidades</h3> <p>A partir de los armónicos se llega al concepto de acorde consonante mayor. Con 3 acordes mayores se obtiene una tonalidad... see more</p> <p>Material Type: Animation Author: Luis Nuño Fernández Date Created: December 1, 2019 Date Modified: December 1, 2019</p> <p>More info Bookmark Go to material</p>	<h3>Reusable Learning Objects for ACoRD...</h3> <p>The ACoRD Project aims to introduce innovative digital pedagogy methods that will benefit healthcare and biomedical... see more</p> <p>Material Type: Online Course Module Author: ACoRD Date Created: February 21, 2021 Date Modified: July 11, 2021</p> <p>More info Bookmark Go to material</p>	<h3>Consideraciones para la tramitación...</h3> <p>En este artículo presentamos una aplicación práctica de la tramitación de un proyecto de investigación, Desarrollo e... see more</p> <p>Material Type: Assignment Author: Cristina Santandreu Mascarrell; Carlos Pons Morera; Lourdes Canós Darís Date Created: December 21, 2019 Date Modified: January 23, 2020 Editor Review: ★</p> <p>More info Bookmark Go to material</p>	<h3>Impact of Materials on Society</h3> <p>This textbook supports the Impact of Materials on Society course and teaching materials, developed with the Materials... see more</p> <p>Material Type: Open (Access) Textbook Author: Sophia Krays Acoard, et al. Date Created: October 21, 2021 Date Modified: October 21, 2021</p> <p>More info Bookmark Go to material</p>	<h3>Social Media Professionalism</h3> <p>This Reusable Learning Object describes and discusses good and poor professionalism on social media in the healthcare... see more</p> <p>Material Type: Learning Object Repository Author: Universiti Putra Malaysia Date Created: March 28, 2021 Date Modified: December 13, 2021 User Rating: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>Counselling Skills</h3> <p>This Reusable Learning Object demonstrates the step-wise approach of the 5 A's.</p> <p>Material Type: Learning Object Repository Author: Universiti Putra Malaysia Date Created: March 28, 2021 Date Modified: December 13, 2021 Peer Review: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>Consent</h3> <p>This Reusable Learning Object helps you to understand the definition of consent in healthcare and research context... see more</p> <p>Material Type: Learning Object Repository Author: Universiti Putra Malaysia Date Created: March 28, 2021 Date Modified: December 13, 2021 User Rating: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>Breaking Bad News</h3> <p>This Reusable Learning Object will help you to understand and demonstrate the six-step SPIKES protocol for breaking bad... see more</p> <p>Material Type: Learning Object Repository Author: Universiti Putra Malaysia Date Created: March 28, 2021 Date Modified: December 13, 2021 User Rating: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>Verbal Skills and Non-verbal Skills</h3> <p>This Reusable Learning Object helps you to identify basic non-verbal communication skills (good and bad) and their... see more</p> <p>Material Type: Learning Object Repository Author: Universiti Putra Malaysia Date Created: March 28, 2021 Date Modified: December 13, 2021 User Rating: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>Doctor-Patient Relationship</h3> <p>This Reusable Learning Object demonstrates the understanding of different models of the doctor-patient relationship.</p> <p>Material Type: Learning Object Repository Author: Universiti Putra Malaysia Date Created: March 28, 2021 Date Modified: December 13, 2021 User Rating: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>Confidentiality</h3> <p>This Reusable Learning Object demonstrates the understanding of the importance and general principles of confidentiality... see more</p> <p>Material Type: Learning Object Repository Author: Universiti Putra Malaysia Date Created: March 28, 2021 Date Modified: December 13, 2021 User Rating: ★★★★★</p> <p>More info Bookmark Go to material</p>
<h3>Literature Search</h3> <p>Learning Objective: At the end of this Reusable Learning Object, students should be able to search for literature and... see more</p> <p>Material Type: Learning Object Repository Date Created: February 21, 2021 Date Modified: July 11, 2021 Editor Review: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>Growth Faltering in Children</h3> <p>This Reusable Learning Object illustrates the aetiology of growth faltering in children via case illustration</p> <p>Material Type: Learning Object Repository Author: Universiti Malaysia SingHealth polyclinics Date Created: February 21, 2021 Date Modified: July 11, 2021 Editor Review: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>What are the options for patients...</h3> <p>This Reusable Learning Object will teach you the options for patients with poor diabetic control. At the end of this RLO... see more</p> <p>Material Type: Learning Object Repository Author: Universiti Malaysia SingHealth polyclinics Date Created: September 9, 2021 Date Modified: October 27, 2021 Editor Review: ★★</p> <p>More info Bookmark Go to material</p>	<h3>Principles of Family Medicine</h3> <p>This Reusable Learning Object will help you to understand the principles of family medicine. Examples of case illness in primary care. Student will be able... see more</p> <p>Material Type: Learning Object Repository Author: Universiti Malaysia Date Created: February 21, 2021 Date Modified: September 9, 2021 Editor Review: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>Treatment plan for patients with...</h3> <p>This Reusable Learning Object can be used to learn the management of acute illness in primary care. Student will be able... see more</p> <p>Material Type: Learning Object Repository Author: Universiti Malaysia Date Created: February 21, 2021 Date Modified: October 27, 2021 Editor Review: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>Prescription Writing: Back to Basics</h3> <p>This Reusable Learning Object will teach you the basics of writing a prescription. At the end of this module, you will be... see more</p> <p>Material Type: Learning Object Repository Author: Universiti Malaysia SingHealth polyclinics Date Created: February 21, 2021 Date Modified: July 11, 2021 Editor Review: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>What is the role of insulin in...</h3> <p>This Reusable Learning Object will teach you what is insulin and how is it relevant to diabetic care. At the end of this... see more</p> <p>Material Type: Learning Object Repository Author: Universiti Malaysia SingHealth polyclinics Date Created: September 9, 2021 Date Modified: September 9, 2021 Editor Review: ★★</p> <p>More info Bookmark Go to material</p>	<h3>How can I be guided on whether to...</h3> <p>This Reusable Learning Object will teach you how to decide if insulin therapy is appropriate for management of your... see more</p> <p>Material Type: Learning Object Repository Author: Universiti Malaysia SingHealth polyclinics Date Created: September 9, 2021 Date Modified: September 9, 2021 Editor Review: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>Factors Affecting Nutrition in the...</h3> <p>This Reusable Learning Object describes factors that affect nutrition in the older person. This includes medical... see more</p> <p>Material Type: Learning Object Repository Author: Universiti Malaysia Date Created: February 21, 2021 Date Modified: September 17, 2021 Editor Review: ★★★★★ User Rating: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>Identifying Challenging Behaviours in...</h3> <p>Learning Objective: Identify challenging behavior and its triggering factors in healthcare settings</p> <p>Material Type: Learning Object Repository Author: Universiti Malaysia Date Created: February 21, 2021 Date Modified: August 19, 2021 Peer Review: ★★★★★ User Rating: ★★★★★</p> <p>More info Bookmark Go to material</p>	<h3>Ethical Reasoning</h3> <p>This Reusable Learning Object demonstrates the understanding of the principles of medical ethics and application of... see more</p> <p>Material Type: Learning Object Repository Author: Universiti Putra Malaysia Date Created: March 28, 2021 Date Modified: March 17, 2022 User Rating: ★★★★★</p> <p>More info Bookmark Go to material</p>	

Beyond ACoRD


Expansion beyond the ACoRD project to train and co-create RLOs with healthcare professionals:

- SingHealth Polyclinics (Singapore) – insulin decision aid for patients
- University of Malaya Urological Cancer Trust Funds – Prostate Ca screening
- Universiti Putra Malaysia – physical health for patients







What is the role of insulin in diabetes?

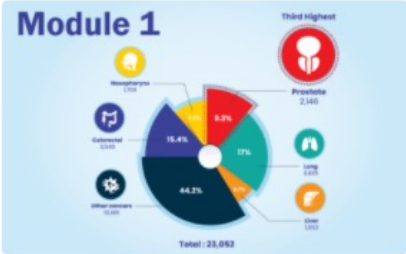


What are the options for patients with poor diabetic control?



How can I be guided on whether to start insulin therapy?






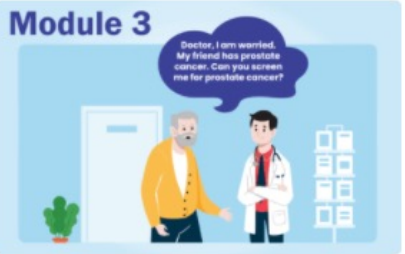
Module 1
Prostate Cancer Epidemiology and Risk Factors (15 mins)

Category	Percentage
Prostate	2.84%
Other	10.4%
Other	44.7%
Other	17%
Other	6.3%
Other	19%

Total: 23,082



Module 2
Prostate Cancer Screening (15 mins)



Module 3
Discussing Prostate Cancer Screening With Patients (15 mins)

Doctor, I am worried. My friend has prostate cancer. Can you screen me for prostate cancer?

Engaging People Beyond ACoRD



2021 Workshop on Co-Creating RLOs for Patients



Storyboard sheet

Working RLO Title: Exercise for FITTness

Team: Hadi, Fadhiah, Cheong, Emotions, Malika, Putri, Amy, Siti

Use these panels to storyboard your material. Draw on your chosen design template. Write text and sketch or name images. Use arrows to indicate navigation route, using your chosen format.

<p>Correcting Misconceptions on Exercise</p> <p>Show different types of PA & Exercises, then will choose and drag & drop into relevant box</p>	<p>Introduction</p> <p>Definition</p> <p>Physical activity</p> <p>Exercise</p>
<p>FITT</p> <p>Overview of FITT</p>	<p>F - Frequency of Exercise</p> <p>Show as a calendar</p> <p>With animation using a calendar to explain different level of frequency and how these relates to aerobic and resistance training</p>
<p>I - Intensity of Exercise</p>	<p>T - Type of Exercise</p> <p>Videos on cardio/aerobics & Strength/resistance training</p> <p>https://www.youtube.com/watch?v=YuKQD_TbSk</p>
<p>T - Time of Exercise</p> <p>Show an animated clock to show the duration of exercise - show varying duration "start low go slow"</p>	<p>Self-assessment</p> <p>Give scenarios</p> <p>Provide a scenario to apply the principles of FITT</p> <p>Drag & drop real time Calendar for frequency</p> <p>Timer for duration</p>

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Storyboard sheet

Working RLO Title: Enter your energy requirements

Team: A.A. Rashid, Liza, Izza

Use these panels to storyboard your material. Draw on your chosen design template. Write text and sketch or name images. Use arrows to indicate navigation route, using your chosen format.

Introduction

Engaging weight loss journey

An animation of the weight shared

Self-assessment

Use an animation of self-assessment

Reflection

Use an animation

Activity self-assessment

Use an animation of self-assessment

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Storyboard sheet

Working RLO Title: Identifying Negative Self-Talk During Weight Loss Journey: Challenging Unhelpful Self-Talk During Weight Loss Journey

Team: Huda, Nabila, Fadhia, Azzah, Nurfarida

Use these panels to storyboard your material. Draw on your chosen design template. Write text and sketch or name images. Use arrows to indicate navigation route, using your chosen format.

Introduction

Identifying unhelpful self-talk

An animation of the content shared

Self-assessment

Use an animation of self-assessment

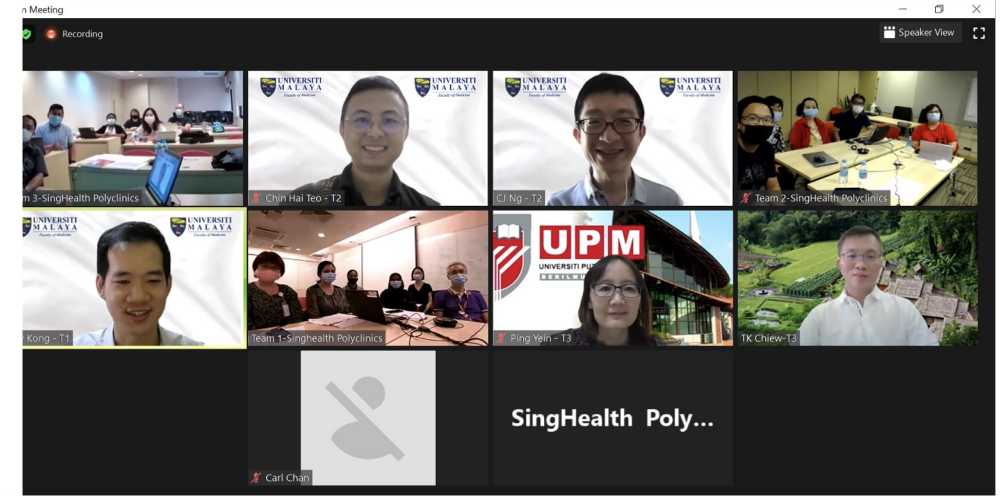
Reflection

Use an animation

Activity self-assessment

Use an animation of self-assessment

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What is the role of insulin in diabetes?

Learning Objectives: At the end of this lesson, users will know what is insulin and how it is relevant to diabetic care.

Storyboard sheet

Working RLO Title: What is the role of insulin in diabetes?

Team: Carl Chan

Use these panels to storyboard your material. Draw on your chosen design template. Write text and sketch or name images. Use arrows to indicate navigation route, using your chosen format.

Introduction

What are the options for patients with poor diabetic control?

Learning Objectives: At the end of this RLO, you should be able to know what are the steps you can improve your diabetic control.

Self-assessment

Give scenarios

Provide a scenario to apply the principles of FITT

Drag & drop real time Calendar for frequency

Timer for duration

Activity self-assessment

Use an animation of self-assessment

Reflection

Use an animation

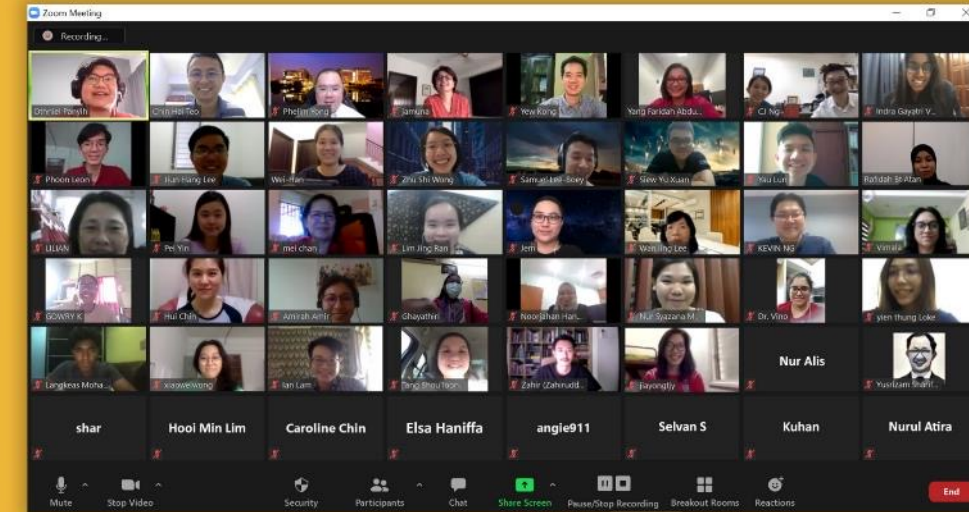
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Beyond ACoRD

- Hackathon with medical students
- Created storyboards on 'Patient Safety'

eLearning Objects Co-creation Hackathon!

Faculty of Medicine, University of Malaya | 5 Nov 2020 | 830am-330pm | Zoom



Beyond ACoRD

- Sharing in webinars
- More lecturers approached us
- Developed more RLOs with and for students

Phlebotomy



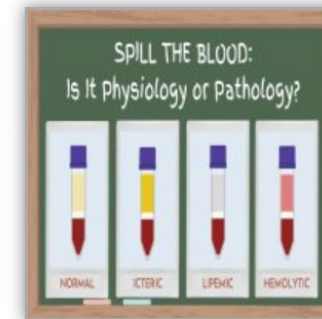
Effective Communication in Healthcare Settings

Open



The Order of Draw

Open



Pre-analytic variables

Open

Open Online Educational Resources for All
**REUSABLE LEARNING OBJECT
(RLO)**

Explore the RLOs at:
<https://acord.my>



ACoRD

Advancing Co-Creation of RLOs to
Digitalise Healthcare Curricula



Co-funded by the
Erasmus+ Programme
of the European Union

What is unique about RLOs?



Short and concise learning materials (5-15 mins)



Contain multimedia & interactive activities



Incorporated with online learning pedagogies



Co-created with experts and students, tailored to needs



ACoRD RLOs are open access & free for all



Evaluation showed effectiveness in improving knowledge and its retention

Join the **ACoRD Consortium** to learn about co-creating RLOs for your teaching and learning!

bit.ly/acordconsortium

Register here:



ACoRD Partners:



Awards:



Outstanding Open Educational Resources (OER) Award



Invention, Innovation & design on e-Learning (IIDEL)



Thank you!