Student-led projects: Using Xerte for authentic summative assessments

> Karl Luke Simon Wood

Examples

Male Catheterisation

Stage One - Gathering equipment



Male Catheterisation Quiz - Indications and Contra-Indications You may like to take this opportunity to test your **Question 1 of 3** knowledge of the indications and contra-indications for Mr Okafor presents to the Emergency Department with an eight hour history of urinary catheterisation. Select the correct option for each inability to pass urine and increasingly severe suprapubic pain. On examination he is question and then check if your answer is correct by in notable discomfort with a distended and tender bladder. There is dullness to clicking on the Submit button. percussion to just below the umbilicus. Neurological examination is unremarkable. His past medical history includes hypertension and benign prostatic hyperplasia. Which of the following is the most likely diagnosis? Acute urinary retention Chronic Urinary Retention Renal malignancy Constipation

Feedback

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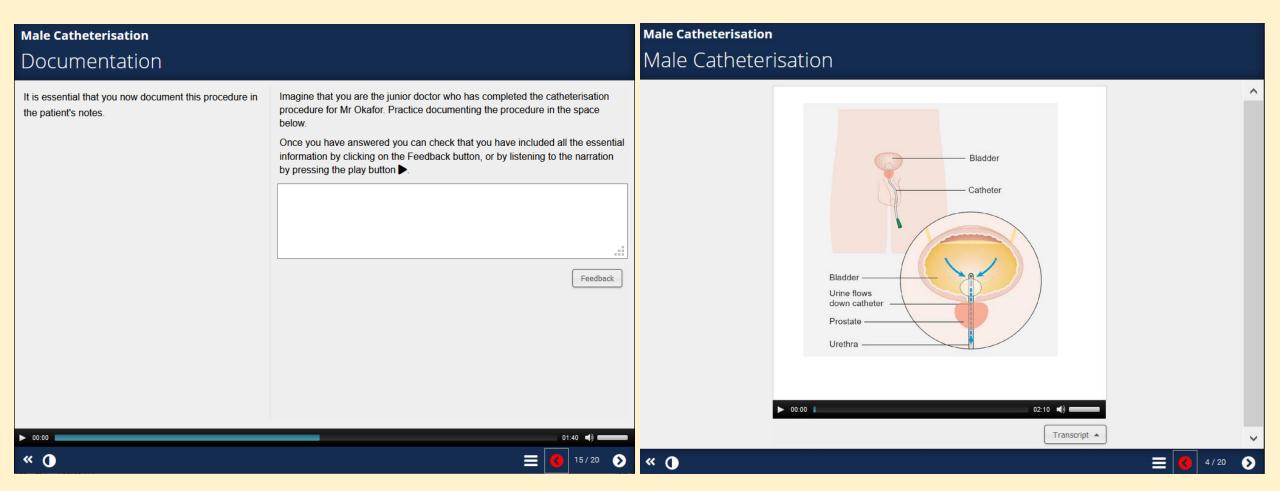
This is the correct answer. Acute urinary retention is the sudden inability to pass urine. It is usually painful and requires urgent treatment with a catheter. Benign prostatic hyperplasia is a common cause of acute urinary retention. Other causes can include meatal stenosis, urethral strictures, faecal impaction, infection (e.g. prostatitis), neuroogical (e.g. multiple sclerosis, Parkinsons) and prostate, bladder or gastrointestinal cancers.

This is incorrect. Patients with chronic urinary retention may be asymptomatic

5/20 $\mathbf{\Sigma}$

Next





Examples

Male Catheterisation

Let's Recap - Male Anatomy

Drag and drop the labels to identify the anatomy of the ma urinary tract. When you have finished, click on the Submit button in the lower right hand corner to check your answer You can then listen to a summary of the key anatomical knowledge needed to understand the skill of catheterisatio clicking on the play button below.

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Scrotum Urethral meatus Bladder Glans penis Prostate Testes Urethra

Male Catheterisation Summary Quiz

Submit

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00:50

3/20

Now, test your knowledge of male urinary catheterisation using the quiz. Select the correct option for each question and then check if your answer is correct by clicking on the Submit button.

Question 1 of 4

Mr Mbabazi is ready for discharge after an admission to the urology ward for a transurethral resection of the prostate (TURP). His catheter was removed early this morning but Mr Mbabazi has been unable to pass urine since and a bladder scan shows 900ml of urine in the bladder. Your registrar has asked you to recatheterise Mr Mbabazi and he will be discharged to return to the trial without catheter (TWOC) clinic next week.

Which of the following should you document in Mr Mbabazi's notes after completing the procedure? There may be more than one correct answer.

Cat	heter	det	tail
Jour	notor	uc	uan

Volume of water used to inflate the balloon

Indication for procedure

Name and role of chaperone

Submit Next Resta

00:00	
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File failed to load: moz-extension://6c5244c2-0438-466b-8c48-12d90f9b49e4/data/src/HTMLParser/toMathMLjs	



How to Write in Patients' Notes Bad Writing

This is an example of bad writing in patients' notes. Click to discover what can be improved in this entry.

Not enough detail

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Inadequate description. Ensure that you are more thorough, noting what has lead to you coming to this clinical conclusion so that others can build a picture of what you saw.

If you were mistaken, there is no description of what the wound actually looked like. This also prevents comparison in the future and makes it impossible to understand if the situation has changed.

21/2	WR Smith
	Appendectory 217 age, nor comprises of prin at year the for in task and Jacky maker and . Wand carks infected. Some present.
	Pinn: out servicer for IV abso fontit
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How to Write in Patients' Notes

Good Writing

This is a good example of how to write in patients' notes. Click to identify what are the good points about this entry.

Plan

Your plan should always be the last thing you write. Its location should be clearly marked, and each action should be on its own line for clarity.

21/02/202 0830	20 Ward Round - Dr Smith (FI)					
	Had operation to remove appendix two days ago. It williams complains today of feeling hot and having increased pain at singleal site since waking up. Mi chilliams was lying awkwardly in bed and appeared in pain. wound site was appeared red, was warm to touch and had moderate amount of yellow evidate. He has a temperature of 37.1°C.					
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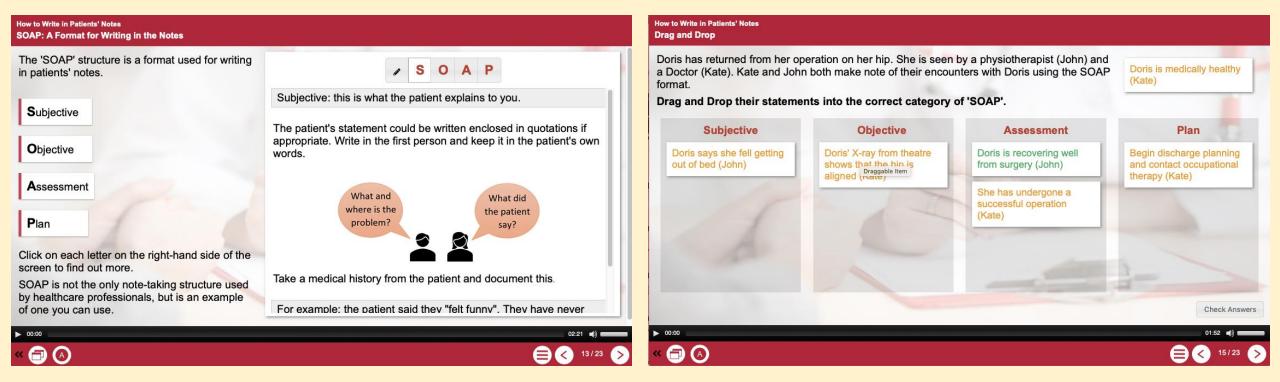
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Examples

How to Write in Patients' Notes

Feedback

e-Learning Tutorial Feedback

0% complete

Page 1: How to Write in Patients' Notes: Feedback

Thank you for carrying out this tutorial on 'How to Write in Patients' Notes'. We ask that you please complete the following short survey to feedback about your experience. This should only take a few minutes.

00:11 🜒 💼

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What degree do you study? * Required

Medicine

Physiotherapy



▶ 00:00

Student quotes

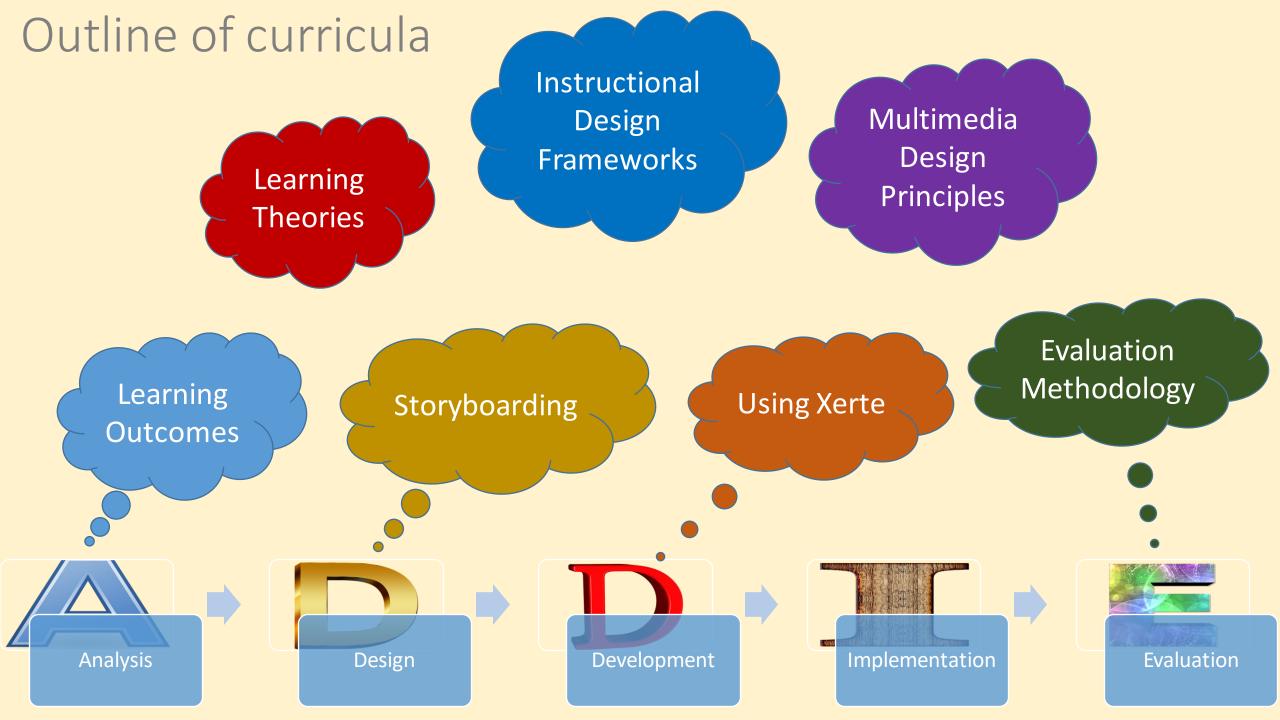
"I enjoyed exploring Xerte and creating my own learning module"

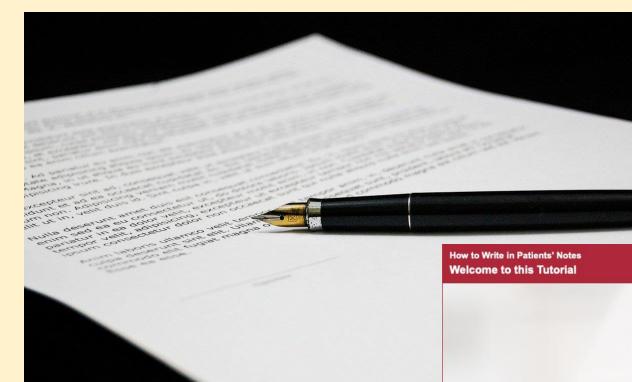
"The online material and the **assignment was great**"

"Being able to **pick** any topic you want as the focus of the e-learning module"

"The fact part of the module is group work and lots of **freedom** is allowed with regards to ideas for e-Learning module"

"Making the e-learning software was fun"





Assessment

Project

How to Write in Patients' Notes

Essay







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Questions?



Resources

 Luke, K., Kiss, F. and Vyas, J. 2019. Authentic assessments: building interactive learning objects. Presented at: Cardiff University Learning & Teaching Conference 2019: Authentic Learning, Cardiff, Wales, UK, 11 Sept 2019. <u>http://orca.cf.ac.uk/125267/</u>

Rubric

ME3099: COURSEWORK ASSESSMENT RUBRIC: ESSAY (50%)

+** Arbiter may not be required. If arbiter does not agree with assessor's mark, discuss with first assessor and agree a final mark.

STUDENT ID:			MODULE:	ME3099 QUESTION		QUESTION	JUSTIFICATION ESSAY	FINAL MARK (%):PLEASE CALCULATE USING WEIGHTED MARKS		
Assessor name:			ARBITER NAME*:			AGREE WITH ASSESSOR'S MARK?	YES / NO			
DESCRIPTOR	OUTSTANDING	EXCELLENT	COMPREHENSIV	/E GOOD	FAIR	BARE PASS	FAIL	INSUFFICIENT	UNSATISFACTORY	POOR
	Exceptional content, independent, innovative, flair, high level of analysis, informed	Accomplished, ambitious, detailed and accurate content, sustained quality in all areas	Rigorous, methodical, analytic, content meets a the requirements of the work, few errors or omissions	all coherent, content very	Satisfactory, relev content meets ma the required elemi some errors/omiss	any of content evident, nents, weaknesses in	Not passable, evident weaknesses, gaps in content, evident errors/omissions	inadequate, irrelevant cantent, extensive errars/omissions	Little or no relevant content, extensive errors/omissions	No relevant content, extensiv errors/deficient
% Grade	100%	85%	75%	65%	55%	45%	35%	25%	15%	5%
Weighted Mark	40	34	30	26	22	18	14	10	6	2
Knowledge & Understanding (40%)				ge of relevant theorie es in which the subje		ct literature, demonstratin situated.	ıg an understandin	ig of the dimensic	ons of the discipline/ t	opic, its
DESCRIPTOR	OUTSTANDING	EXCELLENT	COMPREHENSIV	/E GOOD	FAIR	BARE PASS	FAIL	INSUFFICIENT	UNSATISFACTORY	POOR
%Grade	100%	85%	75%	65%	55%	45%	35%	25%	15%	5%
Weighted Mark	30	25.5	22.5	19.5	16.5	13.5	10.5	7.5	4.5	1.5
Synthesis & Critical Thinking (30%)		Synthesis and Critical Thinking - Logical reasoning, synthesis and combination of different viewpoints dealing with complex and conflicting information, and. Drawing conclusions in the absence of complete data.								
DESCRIPTOR	OUTSTANDING	EXCELLENT	COMPREHENSIV	/E GOOD	FAIR	BARE PASS	FAIL	INSUFFICIENT	UNSATISFACTORY	POOR
%Grade	100%	85%	75%	65%	55%	45%	35%	25%	15%	5%
Weighted Mark	15	12.75	11.25	9.75	8.25	6.75	5.25	3.75	2.25	0.75
Conforming to Instructions (15%)	Conforming to instructions - Working to objectives and standards, including word lengths, appropriate methodologies, and academic conventions including referencing style.									
DESCRIPTOR	OUTSTANDING	EXCELLENT	COMPREHENSIV	/E GOOD	FAIR	BARE PASS	FAIL	INSUFFICIENT	UNSATISFACTORY	POOR
%Grade	100%	85%	75%	65%	55%	45%	35%	25%	15%	5%
Weighted Mark	15	12.75	11.25	9.75	8.25	6.75	5.25	3.75	2.25	0.75
Professional values and behaviours (15%)	ethical dimensio					onstrating competence, usional contexts. Things to				propriate

A mark of 0% shall be applied for work submitted late, non-submission, or absence from the assessment where Extenuating Circumstances do not apply.

Advances in Medical Education and Practice

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METHODOLOGY

Teaching Medical Students How to Interpret Chest X-Rays: The Design and Development of an e-Learning Resource

This article was published in the following Dove Press journal: Advances in Medical Education and Practice

Saif Sait ¹ Michal Tombs ²

¹Postgraduate Medical & Dental Education Department, King's College Hospital NHS Foundation Trust, London, UK; ²Centre for Medical Education, School of Medicine, Cardiff University, Cardiff, Wales, UK being inadequate and unstructured, with students reporting lack of confidence in assessing x-rays. In this paper, we describe how an e-learning resource, on how to interpret a chest x-ray for medical students, was designed and developed. The aim of the resource was to provide medical students with knowledge of how to interpret a chest x-ray in a systematic approach. **Methods**: The technology used to design the e-learning resource was Xerte Online Toolkits. The design and development of the e-learning resource was based upon andragogical principles and followed Overbaugh's guidelines and Mayer's 12 multimedia principles. An instructional design model called ADDIE was used to help develop the resource and its content. These included cases of common conditions, a quiz and summary table at the end. The paper focuses mainly on the way in which instructional design, education and multimedia principles were used to inform the development of the resource.

Introduction: The teaching of radiology to medical students has often been criticised for

Findings: A preliminary evaluation was completed by 18 medical students from year 3–5 who completed the e-learning resource. The feedback was positive with an average rating of 9/10 and 100% of students saying they would recommend the resource to a colleague. Students commented that they liked the resource as it was easy to navigate, had good visual learning and contained good explanations with relevant content.

Conclusion and Future Implications: This paper demonstrates how, with the use of instructional models, educational theories and principles, an e-learning resource can be created. Preliminary evaluation showed that students were satisfied with the resource and felt it helped them acquire knowledge on how to interpret chest x-rays. This resource can be further utilized either as a standalone resource or before starting clinical placements and may prove particularly useful in the current and challenging learning environment where there is an increased need for digital resources.

Advances in Medical Education and Practice

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Open Access Full Text Article

METHODOLOGY

Teaching Medical Students About Attention Deficit Hyperactivity Disorder (ADHD): The Design And Development Of An E-Learning Resource

> This article was published in the following Dove Press journal: Advances in Medical Education and Practice

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¹Neurodevelopmental Disorders Team, Neath Port Talbot Hospital, Port Talbot SA12 7BX, UK; ²C4ME, School of Medicine, Cardiff University, Cardiff CF14 4YS, UK; ³Medical Student, University of Cambridge, School of Clinical Medicine, Addenbrookes Hospital, Cambridge CB2 OSP, UK Abstract: In this paper, we describe how an e-learning resource on Attention Deficit Hyperactivity Disorder (ADHD) for medical students was designed and developed. The aim of the resource was to provide students with essential knowledge and understanding about ADHD prior to their attendance at a elassroom teaching session as well as to serve as a revision tool. The paper focuses on the way in which instructional design, educational and multimedia principles were used to inform the development of the resource. It also reports results of a small-scale evaluation of students' satisfaction with the resource and the way in which they believed it impacted knowledge acquisition of ADHD related concepts and principles. In addition, we consider ways in which the resource could be further utilized and evaluated, for example as part of a flipped classroom approach to learning, and whether this would be a useful model to use when teaching other aspects of Child and Adolescent Psychiatry.

Keywords: ADHD, ADDIE, PACT analysis, instructional design, multimedia principles, flipped classroom

Workflow for developing online learning resources Introduction

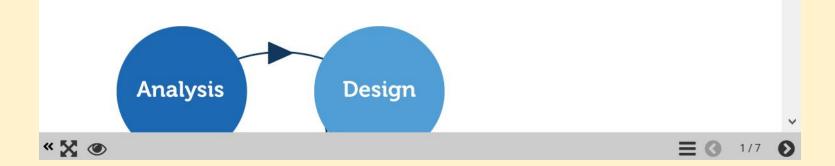
What is this resource?

This short resource gives an overview of the process of developing online learning resources. It is intended both as a **practical guide** to understanding the steps that we need to take when producing learning resources, and as means of **highlighting the theoretical and conceptual frameworks** that underpin good learning design.

The hope is that the workflow outlined here will promote a more **consistent and transparent approach to developing resources**.

Overview of workflow (An instructional design model)

The process outlined in this resource uses the 5-step **ADDIE model**. We will look at each of these over the following pages.



https://xerte.cardiff.ac.uk/xapi_launch.php?template_id=14489&group=groupname#page1

More information

Here is where you will find additional information on the theory or background, as well as links out to other helpful resources or templates.