

U 21

Brisbane 2004

Library / Catalogue of
Electronic Learning Resources
for Dentistry

Points of Discussion

- What types of materials could we / should we share?
- What are the best ways to achieve such interchanges?
- Do we need a catalogue?

Digital Learning Objects Catalogue - Microsoft Internet Explorer

Universitas 21 Health Sciences

Digital Learning Objects Catalogue

[return to the start page](#)

[Search] [Browse]

Search results

5 items found.
Results Page: 1

Congenital Heart Disease - Medical considerations in paediatric dentistry (CD-ROM)

During the past few years, it has become increasingly difficult for dental students to access and treat medically compromised pediatric patients. Using multimedia, this project provides a means to fill this gap by addressing dental case management of children with congenital heart disease. This medical condition is likely to be encountered by a dentist treating children. The module contains a description and review of the medical condition (pathophysiology), considerations of medical management and dental management. The student is then presented with a case scenario of a child with congenital heart disease. The user selects management of the case from a range of treatment options and constructs a treatment plan.

Diabetes - Medical considerations in paediatric dentistry (CD-ROM)

During the past few years, it has become increasingly difficult for dental students to access and treat medically compromised pediatric patients. Using multimedia, this project provides a means to fill this gap by addressing dental case management of children with diabetes. This medical condition is likely to be encountered by a dentist treating children. The module contains a description and review of the medical condition (pathophysiology), considerations of medical management and dental management. The student is then presented with a case scenario of a child with diabetes. The user selects management of the case from a range of treatment options and constructs a treatment plan.

Down Syndrome - Medical considerations in paediatric dentistry (CD-ROM)

During the past few years, it has become increasingly difficult for dental students to access and treat medically compromised pediatric patients. Using multimedia, this project provides a means to fill this gap by addressing dental case management of children with Down syndrome. This medical condition is likely to be encountered by a dentist treating children. The module contains a description and review of the medical condition (pathophysiology), considerations of medical management and dental management. The student is then presented with a case scenario of a child with Down syndrome. The user selects management of the case from a range of treatment options and constructs a treatment plan.

Medical considerations in paediatric dentistry (CD-ROM)

Teaching dental students to treat patients safely and efficiently presents many challenges. The declining availability of suitable patients attending teaching clinics prevents students from developing a range of experiences in total patient management. A disadvantage of traditional preclinical laboratory teaching is that students are not able to integrate theoretical and practical skills. *(This document is intended for dental students and not for the general public.)*

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Authorized by: Director, TALNET
Maintained by: TALNET Web Team
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The University of Melbourne ABN: 64 012125
Provider Number: 002124 (A)
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Digital Learning Objects Catalogue - Microsoft Internet Explorer

Universitas 21 Health Sciences

Digital Learning Objects Catalogue

Search results

Title	Diabetes - Medical considerations in paediatric dentistry (CD-ROM)
Owner	Louise Breahey-Messer
Owner email	lbr@unimelb.edu.au
Owner phone	+61 3 9341 0270
Resource Location	http://www.unimelb.edu.au/unimelb/theses/paeddent/index.html
Faculty/Dept/Centre/School	School of Dental Science
Class	Learning design with content
Primary discipline	MEDICAL AND HEALTH SCIENCES
	Dentistry
Educational Level	Academic Postgraduate Undergraduate
General Description	During the past few years, it has become increasingly difficult for dental students to access and treat medically compromised pediatric patients. Using multimedia, this project provides a means to fill this gap by addressing dental case management of children with diabetes. This medical condition is likely to be encountered by a dentist treating children. The module contains a description and review of the medical condition (pathophysiology), considerations of medical management and dental management. The student is then presented with a case scenario of a child with diabetes. The user selects management of the case from a range of treatment options and constructs a treatment plan.
Keywords	paediatric dentistry, diabetes, pathophysiology, medical management, dental management, scenarios,
Resource formats	Macromedia - Director
Physical format	CD-ROM (Mac/PC)
Date available	
Technical requirements	
Copyright	Details available on request. Commercialisation is in process.
Funding	TALNET

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Medical Considerations in Pediatric Dentistry - Biomedical Multimedia Unit - The University of Melbourne - Microsoft Internet Explorer

Address: http://www.mchs.unimelb.edu.au/bmu/showcase/paeddent/index.html

Uni Links: University Homepage | Uni Search: University site search

**Faculty of Medicine, Dentistry and Health Sciences
Biomedical Multimedia Unit**

Home > Showcase

Menu

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- Showcase**
- Expressions

Medical Considerations in Pediatric Dentistry


This project addresses case management of medically compromised dental patients and aims to improve dental clinical management. During the past few years, it has become increasingly difficult to access suitable patients, especially child patients, for dental students and consequently for them to be adequately experienced in treating patients with medical conditions.


Multimedia simulation provides a means to fill this gap and allows interactive learning in a non-threatening environment. A series of four modules have been developed to address four medically compromising conditions that could affect a child (congenital heart disease, diabetes, Down syndrome, cleft lip and palate) likely to be encountered by a dentist in general practice treating children. Each module contains a description and review of the condition, considerations of medical management and dental management. The student is then presented with a case scenario of a child with the condition, and simulations based on 'real-life' cases. The student selects riskier management of the case from a range of treatment options on screen, taking all information into consideration, and constructs a treatment plan and management approach.


The target group for this program is 4th year dental students in small group computer laboratory/seminar settings. Final year dental students will also be able to access it individually. The program can also be used for post-graduate students in Continuing Dental Education programs.

Project Screen Grabs

Click on the thumbnail to view a larger image.

 The title screen shows icons representing the four sections of this program.

 This screen-grab shows the introduction screen of the congenital heart disease section.



Medical Considerations in Pediatric Dentistry - Biomedical Multimedia Unit - The University of Melbourne - Microsoft Internet Explorer

Address: http://www.mchs.unimelb.edu.au/bmu/showcase/paeddent/index.html

MEDICAL CONSIDERATIONS IN PEDIATRIC DENTISTRY

The title screen shows icons representing the four sections of this program.

CONGENITAL HEART DISEASE

This screen-grab shows the introduction screen of the congenital heart disease section.

VIRTUAL DENTAL ROOM

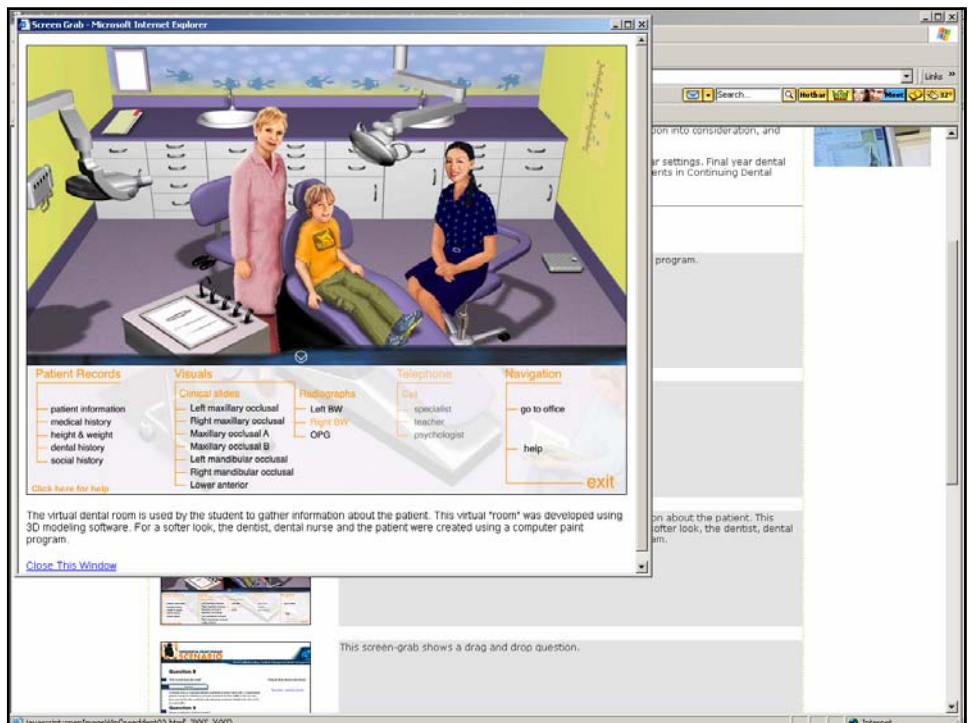
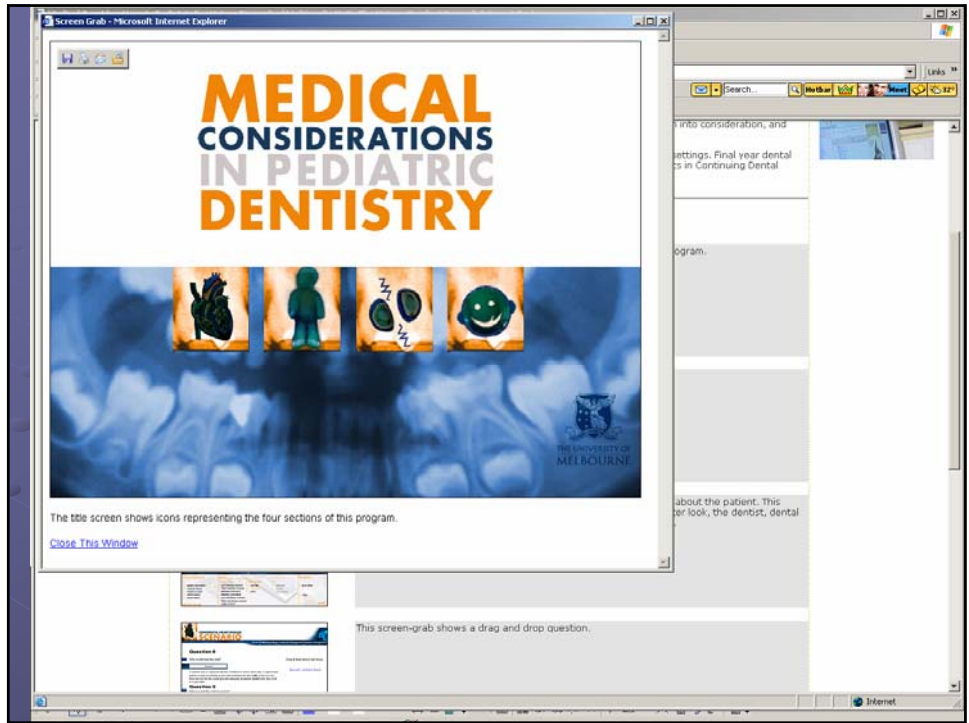
The virtual dental room is used by the student to gather information about the patient. This virtual "room" was developed using 3D modeling software. For a softer look, the dentist, dental nurse and the patient were created using a computer paint program.

SPINNING

This screen-grab shows a drag and drop question.

PHENYLETHYLENEAMINE

This diagram describes mosaicism.



Screen Grab - Microsoft Internet Explorer

DOWN SYNDROME PATHOPHYSIOLOGY

home | medical management | dental management | scenario

Mosaicism

The ova and the sperm combine to produce a zygote with 46 chromosomes.

The first cell division. The zygote divides and produces two cells.

This cell continues standard cell division.

This cell divides to produce a cell with 47 chromosomes and a cell with 45 chromosomes.

The cell with 45 chromosomes does not survive.

Cells continue to divide with some cells containing 46 chromosomes and others having 47 chromosomes which results in a baby with Mosaic Down syndrome.

This diagram describes mosaicism.

[Close This Window](#)

rag and drop treatment
process. A number of mockups
d.
rsity of Melbourne.

[Top of page](#)

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The University of Melbourne ABN: 64 002 705 224
CRICOS Provider Number: 00116K ([More information](#))
[Course Enquiries](#)

NUS
National University of Singapore

Integrated Virtual Learning Environment

IVLE

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<p>LOGIN</p> <p>You have already logged in as</p> <p>DENDEAN</p> <p style="text-align: center; background-color: #0056b3; color: white; padding: 2px 10px; border-radius: 5px;">ENTER</p> <p>Options</p> <p style="background-color: #0056b3; color: white; padding: 2px 5px; border-radius: 5px;">Search</p> <p style="background-color: #0056b3; color: white; padding: 2px 5px; border-radius: 5px;">Feedback</p> <p style="font-size: 10px;">Best viewed with Internet Explorer 4.0+</p>	<p>News & Updates</p> <p>20/09 /2004 Staff and students, We value your feedback on IVLE. Do let us know how IVLE has served or not served you. We are constantly planning and improving IVLE to meet your needs. You can send all feedback on IVLE to citym@nus.edu.sg</p> <p>24/08 /2004 IVLE disables announcement popup Due to the blocking of automatic browser pop-ups by the recent release of Microsoft Windows XP Service Pack 2, IVLE has converted its old New Announcement Popup to a red-colored "Announcement" icon in student workspace.</p> <p style="text-align: right; color: #0056b3;">past news and updates ...</p>	<p>IVLE</p> <ul style="list-style-type: none"> About IVLE IVLE FAQs IVLE WebTutorials Login Screens Links NUS IT Care Webcasting Search Engines Digital Library
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IVLE Webtutorials - Microsoft Internet Explorer

NUS National University of Singapore

Integrated Virtual Learning Environment **IVLE 7.4**

Student

- Introduction
- Login
- Forum
- Workbin
- Active Messaging
- Lesson Plan

Staff

- Introduction
- Login
- Forum
- Module
- Announcement
- Workbin
- Chat Room
- Lesson Plan
- Active Messaging

Guest

- Creation of Guest Accounts
- Login

Welcome to IVLE Webtutorials!

The Integrated Virtual Learning Environment or IVLE is a learning management system designed to facilitate and supplement teaching and promote student learning at the National University of Singapore.

IVLE is designed to (a) ease the administrative work of the faculty and the students, (b) provide more opportunities and avenues for staff and students to collaborate and communicate, (c) promote explorative and independent learning, (d) provide a one-stop access to all teaching, learning and knowledge-based resources at the University and (e) facilitate student-to-student collaboration.

The web tutorials are self-help running tutorials on key tools and resources on IVLE. Click on the relevant link and let the tutorials guide you through the process.

Tricks to view this tutorial effectively -

- 1) Click on the play button to view the tutorial.

IVLE Search - Microsoft Internet Explorer

Address: http://ivle.nus.edu.sg/search/ctrlarea/search.asp?toolmark=ibcode=0016=&loc=ibdept=restorative+dentistry&item=1

Search Results: 25

BM	Search Results	Lecturer	Department	Resources
AYFPV	Full Veneer Prep Semester 1, 200	U Jin	Restorative Dentistry	• Multimedia
AYINLAY	Inlay Restoration Semester 1, 200	U Jin		
AYLP	Laboratory Prod Semester 1, 200	lin		
AYONLAY	Onlay Restorative Semester 1, 200	U Jin		
DY4B4B	Complete Dentu Semester 1, 200	og Siang Heng		
DY4B4B	Removable Part Semester 1 & 2,	rawan Sae-Lim		
ENDDUG	Endodontic Cour Semester 1 & 2,	rawan Sae-Lim		
ENDDCLINL2	Clinical Endodon Semester 1, 200			
ENDDDEHO_CLIN	Endodontic Clinical Demonstration Semester 1, 2004/2005	Assoc Prof Varawan Sae-Lim Dr Ching Hui Kheng		
ENDDANNUAL_CLIN	Clinical Manual in Endodontics Semester 1 & 2, 2004/2005	Assoc Prof Varawan Sae-Lim		
ENDDTUTOR1	Tutorials in Endodontics Semester 1, 2004/2005	Assoc Prof Varawan Sae-Lim		
ENDDTUTOR1_1	Dental Trauma Seminar Semester 1, 2004/2005	Assoc Prof Varawan Sae-Lim		
ENDDTUTOR2_2	Predictable Success in Rotary Instrumentation Semester 1, 2004/2005	Assoc Prof Varawan Sae-Lim		

Preventive Dentistry and Dental Public Health

CONTENTS

- Introduction
- Goal and Objectives
- Overview of Curriculum
- Programing Contents
- Schedule of Requirement
- Teaching Materials
- Teaching Facility
- Student Evaluation
- Course Evaluation
- Teaching Staff
- Acknowledgement

Department of Preventive Dentistry
Faculty of Dentistry

Case Studies in Pediatric Dentistry (II)

Case 5
The parents of this 8 year-old girl complain that her teeth are crooked.

1. Describe the child's occlusion.
2. What is the most likely cause of her malocclusion?
3. What are the common dental failures seen in children with a similar problem?
4. How can you correct the patient's malocclusion?

Web-based Interactive Learning Programmes

- Customizable Web-based Curriculum Matrix
 - Centralised vs. Decentralised Approach
- E-Consortium?
 - IP Issues
- Sharing of Digital Instructional Modules
 - Modular Interchangeability ?

Towards Global Superstore of Quality- Assured Modularised Learning Programmes

- eLearning?
 - Dental School Curriculum
 - eLearning Modules for CPE
- IP Issues
 - Internet vs. Intranet
- Sharing
 - Ideas / Modules?
- Modular Interchangeability?
 - “Lego-Brick” Model
- Quality Assurance
 - Reputation of Institution
 - **“Seal of Approval”** – U21??

DISCUSSION

What are the Barriers?

- **LRC** — Poor usage ?
- **Students** — are they already sourcing Learning Objects (and self-selecting)?
Independent Learning !!
- **Staff** — what are the incentives?

ISSUES

The “Virtual” Potential

- 4.1 Web-based Interactive Learning Programmes
- 4.2 Clinical Records and Global Diagnostic Codes
- 4.3 Towards A Global Superstore of Quality-Assured Modularised Learning Programmes
- 4.4 Electronic Management Systems

ISSUES

The “Virtual” Potential

- 4.2 Electronic Clinical Records and Global Diagnostic Codes
- 4.3 Towards A Global Superstore of Quality-Assured Modularised Learning Programmes

Component Systems

- Consortium vs. Single Site
- Interoperability / Open Architecture?
- Commonalities
- Available Standards?

4.2 Clinical Records and Global Diagnostic Codes

- Data Interchange
 - Shared Data Model, Vocabulary, Syntax
- Global Diagnostic Codes
 - Integration into Dental Education
- Biggest potential for impact
- Language Translation
 - Validation through back translation

The image displays two screenshots of web pages. The left screenshot shows the 'Preventive Dentistry and Dental Public Health' course content page, listing topics like Introduction, Goal and Objectives, Overview of Curriculum, Programmatic Contents, Scheduling of Curriculum, Teaching Materials, Teaching Facility, Student Evaluation, Course Evaluation, Teaching Staff, and Acknowledgement. The right screenshot shows a 'Case Studies in Pediatric Dentistry (II)' page, featuring a clinical photograph of a child's teeth with malocclusion and a list of four questions for analysis.