

Meeting the Needs of Community Health Nurses - Innovative Online STI Education

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BC Centre for Disease Control
AN AGENCY OF THE PROVINCIAL HEALTH SERVICES AUTHORITY

STI  HIV

Prevention and Control

The Rationale

- In June 2005 the British Columbia government approved the Nurses (Registered) and Nurse Practitioners Regulation under the Health Professions Act
- Scope of Practice for nursing in BC to be formally described
- STI practice becomes a part of nursing practice not a delegated medical function
- Requires certification for practice outside of regular historical scope of nursing



The Rationale

- Previous face-to-face training
 - Relied on a variety of expert speakers
 - Curriculum not standardized
 - Limited numbers of learners per year due to speakers' availability
 - Cost of seminar rooms, travel and accommodation



The Rationale

- Online course
 - Standardized curriculum
 - Evidence-based
 - Able to reach larger number of learners
 - Less travel costs though preceptorship still requires travel expenses



The Course

- Content management system (CMS)
- Learning content management system (LCMS)
- Proprietary or open source
- Moodle (*Modular Object-Oriented Dynamic Learning Environment*)



The Benefits of Moodle

- Open Source
 - SCORM Compliant
- Self authoring
- Short training for facilitators
 - No need to be that much of a computer whiz
- “High control and low cost”



Course Structure

Orient learners to the online environment

- Learners receive an introductory email
 - Login instructions
 - Screen shots of the course
 - Course schedule and grading
 - Tech requirements
- Separate email with username and password



Course Structure

Orient learners to the online environment

- Learning Online Course
 - Can be used for other course offerings
 - How to create a profile
 - Netiquette
 - How to navigate the course
 - How to use the discussion forums
 - How to take a quiz in Moodle



Course Structure

- STI Certificate - 5 modules
 - Fundamentals of STI Practice
 - Etiology and Presentation
 - Counselling and Clinical Approach
 - Interpretation, Diagnosis, Treatment and Education
 - Reporting and Surveillance



Course Structure

- Intro to Preceptorship
 - Step by step guide on how to proceed
 - Outlines roles and responsibilities
 - Forms used are housed online
 - Housekeeping items
- Clinical Preceptorship



Course Structure - Time Required

- Online course
 - 4 to 6 hours a week
 - 12 weeks duration
- Preceptorship
 - 3 consecutive days



Course Structure - Assessment Tools

- Discussion forums
 - Case-based learning
 - One forum per module
 - 3-4 case studies per forum
- Multiple choice final exam
 - Single answer option format



Course Structure - Activities

- All resources online
 - Canadian STI Guidelines in each STI clinical setting
- Partnership with Simon Fraser University's Learning and Instructional Development Centre (LIDC)
 - Videos
 - Audio
 - Flash presentations
 - DVD back-up for videos, audio and flash presentations
 - Games and puzzles
 - Self check questions
 - “Thinking it over” pieces



Course Look and Feel

BCCDC Moodle English (en)

My courses

Learning Online
Teacher: [Lisa Elliott](#)
Teacher: [Cheryl Prescott](#)
This course will cover the tools, usage, and skills required to competently utilize and navigate through the Moodle environment.

STI Clinical Practice Certificate
Teacher: [Lisa Elliott](#)
Teacher: [Cheryl Prescott](#)
The new STI/HIV Clinical Practice course is a competency based curriculum developed in response to the Provincial Registered Nurses' Scope of Practice legislation introduced in 2003-2004. The official CRNBC certification process has not yet been finalized therefore this course is NOT considered an official 'certification' as outlined in the provincial practice requirements for specialized practice. This online course replaces the face to face STI clinical practice training previously held at British Columbia Centre for Disease Control (BCCDC) in Vancouver.

February 2008 Forums and Final Exam
Teacher: [Lisa Elliott](#)
Teacher: [Cheryl Prescott](#)
This is the location of the discussion forums and final exam for the STI course starting on February 25, 2008. There will be a news forum, a social discussion forum and a course work forum for each module. The course calendar is also found here.

Welcome to the BCCDC STI Clinical Practice Certificate course.



Course Look and Feel

Course: STI Clinical Practice Certificate - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://bccdc.knowmoodle.ca/moodle/course/view.php?id=15> Go Links >>

STI Clinical Practice Certificate

(Logout)

BCCDC > STI Course

People

Participants

Search Forums

Go

Advanced search ?

Activities

Books

Glossaries

Administration

Grades

Topic outline

Glossary

1 **MODULE 1**
FUNDAMENTALS OF STI/HIV CLINICAL PRACTICE

- Course Overview
- Introduction
- Determinants of Health & Approaches to Care
- Sexuality - The Biological Aspects
- Sexuality - The Psychological Factors
- Sexuality - The Social Influences
- Sexuality - The Behaviours
- Module 1 Summary

2 **MODULE 2**
ETIOLOGY AND PRESENTATION

- Introduction
- STI Syndromes
- Dermatological Conditions - Genital Ulcers
- Dermatological Conditions - Papular Genital Lesions
- Rashes and Infestations
- Blood-Borne Pathogens
- Module 2 Summary

Calendar

March 2008

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Global events Course events

Group events User events



Course Look and Feel

The screenshot shows a Microsoft Internet Explorer browser window displaying a Moodle course page. The browser's address bar shows the URL: <http://bccdc.knowmoodle.ca/moodle/mod/book/view.php?id=885&chapterid=940>. The page title is "STI Clinical Practice Certificate". The breadcrumb navigation shows: [BCCDC](#) > [STI Course](#) > [Books](#) > [STI Syndromes](#). The main content area is titled "CERVICITIS" in large purple letters. Below the title, there are sections for "Learning Objectives", "Definition", and "Signs and Symptoms". A left-hand sidebar contains a "Table of Contents" with links to various topics: Causative Organisms, Cervicitis, Pelvic Inflammatory Disease (PID), Vulvovaginitis, Urethritis/Epididymitis, Oropharyngeal Symptoms, and Proctitis. The browser's status bar at the bottom indicates "Internet".

STI Course: STI Syndromes (Cervicitis) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail

Address <http://bccdc.knowmoodle.ca/moodle/mod/book/view.php?id=885&chapterid=940> Go Links >>

STI Clinical Practice Certificate

BCCDC > STI Course > Books > STI Syndromes

Table of Contents

- Causative Organisms
- Cervicitis**
- Pelvic Inflammatory Disease (PID)
- Vulvovaginitis
- Urethritis/Epididymitis
- Oropharyngeal Symptoms
- Proctitis

CERVICITIS

Learning Objectives

- Describe cervicitis signs and symptoms
- Explain the etiology and how to test for cervicitis

Definition

Cervicitis is defined as:

- an inflammation of the cervix with mucopurulent or purulent discharge

Signs and Symptoms

Symptoms of cervicitis are:

- increased vaginal discharge
- post-coital bleeding, intermenstrual bleeding, prolonged abnormal bleeding
- pelvic pain, dyspareunia
- dysuria and urinary frequency (with urethritis)
- external lesions, swollen lymph nodes (with HSV)

Course Look and Feel

The screenshot shows a web browser window titled "STI Course: STI Syndromes - Microsoft Internet Explorer". The address bar shows the URL: <http://bccdc.knowmoodle.ca/moodle/mod/book/edit.php?id=885&chapterid=940>. The page content includes a breadcrumb trail: [BCCDC](#) > [STI Course](#) > [Books](#) > [STI Syndromes](#) > [Edit](#). A notification at the top right states "You are logged in as Tony Rees (Logout)". The main heading is "Editing chapter". Below this, there are form fields for "Chapter Title" (containing "Cervicitis"), "Subchapter" (with a checkbox), and "Content". The content area features a rich text editor with a toolbar and a preview window. The preview window displays the word "CERVICITIS" in large purple letters, followed by the heading "Learning Objectives" and a bulleted list: "Describe cervicitis signs and symptoms" and "Explain the etiology and how to test for cervicitis". At the bottom of the editor are "Save changes" and "Revert" buttons. The Windows taskbar at the bottom shows the Start button, several application icons, and the system clock displaying "9:32 AM".



Course Look and Feel

Icons



Puzzles and Games



Media

- video
- audio
- flash presentations

Course Look and Feel

game4_IDTE - Microsoft Internet Explorer

Address http://www.stdresource.com/cdc/games/game4_IDTE.html

Infection / Syndrome	Signs / Symptoms
Bacterial Vaginosis	
Gonorrhea	
Chlamydia	
Herpes	
Vaginal Yeast	
Hepatitis	
Secondary syphilis	
Primary Syphilis	
NGU	
Scabies	
Warts	
HIV Seroconversion illness	
Trichomoniasis	
Molluscum	
Pubic Lice	
LGV	
PID	
Epididymitis	
Reiter's Syndrome	
AIDS	

I.D.T.E. MATCHING GAME

OBJECTIVE: DRAG THE 'CARDS' FROM THE RIGHT INTO THE APPROPRIATE CELL ON THE TABLE ON THE LEFT. IF YOU ARE CORRECT, THE CELL WILL CHANGE COLOR. MATCH ALL THE CARDS TO THE CORRECT CELLS.

Correct: 0 Tries: 0

Bleeding between periods. Mostly asymptomatic in

White cottage cheese-like discharge

Cluster of "blister-like" lesions

Urethral awareness, mucoid discharge from penis - not CH

Clay colored stools, dark colored. New tender single sore.

Patchy hair loss, rash to body or specifically to palms and bottom of feet.

Frothy vaginal discharge.

Purulent discharge from penis with

Burn. Anorectal pain, mucopurulent discharge

Ca with symptoms and ulcerat. Kaposi Sarcoma, Wasting Syndrome.

"Flu-like" fever, body

Vaginal discharge with fish-like odor.

particular during palpation component of male genital exam.

Conjunctivitis, arthritis.

Tenderness during digital component of pelvic exam, fever may or may not be present.

testes in

pubic hair, itching.



Evaluation

- Conducted by Simon Fraser University
 - online surveys
 - before course
 - between course and preceptorship
 - after preceptorship
- Feedback from learners
 - online surveys
 - feedback forms for each module for prototypes



Evaluation Results

- Video and audio segments considered most helpful in learning
- Most people completed the course in the anticipated 4-6 hour time frame
- The diagnosis and treatment module was considered the most useful to their nursing practice



Issues

- Open source vs. proprietary
- Synchronous vs. asynchronous
 - Part-time learners
 - Synchronous requires flexible schedule
- Forums vs. assignments
 - Learner feedback supports forums
 - Last minute postings
 - Time taken in marking



Lessons Learned

- Self authoring
- Manage facilitation hours
- Optimum number of learners per forum
- Technical support
- Orient learners to online environment
- Support for transition to preceptorship
- Support preceptors



The Future

- Currently aimed at BC clinicians
- Increased support for preceptorships
- Regional centres for the preceptorship phase
- Bundle with other courses



Thanks to:

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