

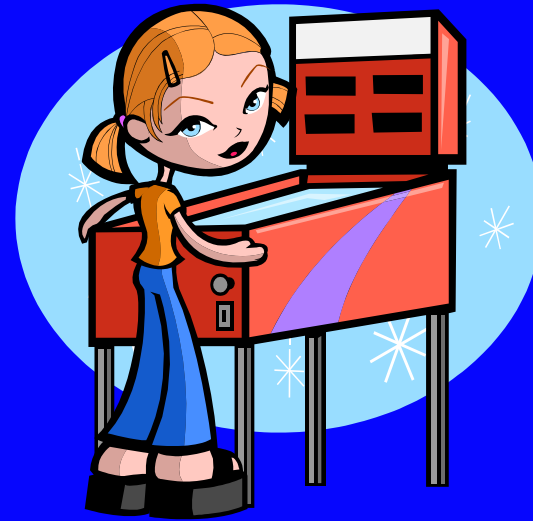
Overview of Online Learning

Community-Building and Interaction

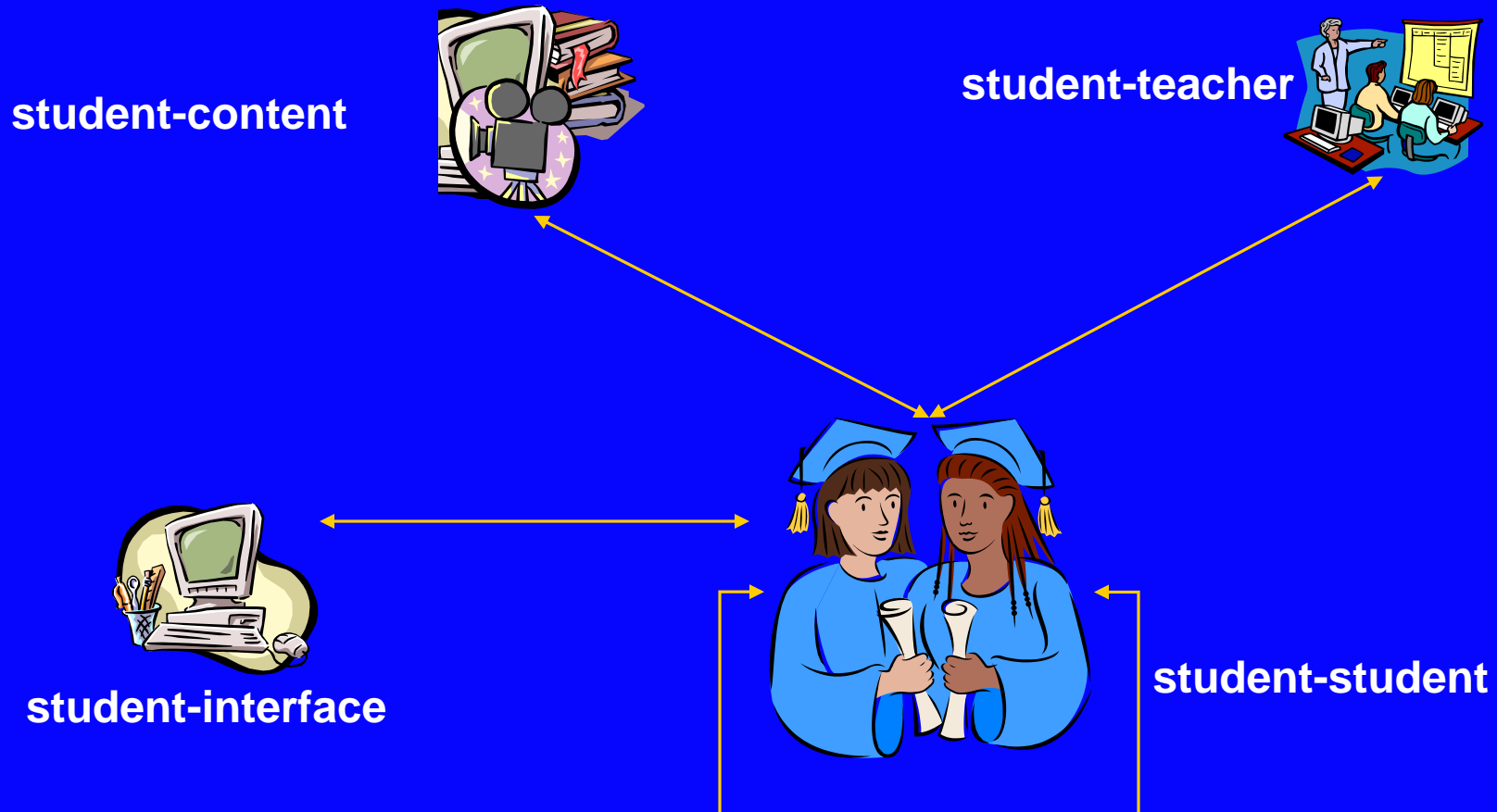
Community-Building
Does
involve Interaction



Interaction
May
involve Community-Building



Forms of Interaction



Course design team

- Subject matter experts (SMEs)
- Instructional designer/technologist
- LMS technologist
- Teacher/Tutor/
Facilitator/Moderator
- Course Coordinator
- Educational Technologist
- Audio-Visual Technician
- Graphic Artist

General Module Structure

- Introduction
 - Instructions, Learning Outcomes
- Pre-test
- Content
 - Arranged as lessons
 - Based on Core cases (Clinical Presentations)
 - Interactive (discussion forums, quizzes, links to theory)
- Post test
- Further reference

Introduction

- Brief
- Can be text, pictorial, video or audio or combination
- Discuss the important at primary care level, epidemiology
- Explain how the module content is arranged

Programme Outcomes

- Manage diverse presentations at primary level
- Ensuring continuity of care to the patients
- Provision of patient-centered holistic care

Manage diverse presentations at primary level

- History Taking
- Physical Examination
- Investigations and Diagnostic procedures
- Provision of emergency care

Ensuring continuity of care to the patients

- Formulating a plan of management
- Risk identification
- Record keeping
- Notification
- Appropriate referral

Provision of patient-centered holistic care

- Problem identification
- Health promotion

Pre-test

- Can be a quiz
 - SBA/True/False
- Basic Science knowledge
- Pathophysiology
- Can provide links to theory

Content

- Core Clinical Presentations
 - Outpatients Department
 - Clinic visits
 - Emergency care
- Develop case scenarios
- Can be presented as;
 - Tutor Moderated Forum discussions
 - Interactive Patient Management problems
 - Flowcharts

VirtualPatient

Hamish McDonald

Notes



Examination



Investigation



Select a visit

Visit #1

Age
81**Sex**
Male**Marital status**
Married**Race/Ethnicity**
White**Occupation**
retired fisherman**Education**
dropped out at 16**Past History**

Patient has been told he has high blood pressure for many years, well over 30 years. He was prescribed hydrochlorothiazide 12.5 mg. by his previous physician several years ago. He fills these through mail order and takes one a day. He has not been to see a doctor in at least three years. He thinks that other than his high blood pressure, he's in good health, which he attributes to eating a lot of fish and his hardy life as a fisherman before he retired.

Present History

Recently he is not so active as he once was because of pains in the right calf on walking. These go when he stops but they seem to be getting worse. He used to smoke but has not done so for several years.

Says that he often has to rush to the toilet to urinate, but then doesn't urinate very much. He needs to get up 3 or 4 times a night to urinate. Denies dysuria, hematuria, change in color of uring or incontinence.

Medical HistoryThis patients
recorded history**Problem List**This patients
recorded problems**Medication Chart**All medication cur-
rently taken by this
patient**Physiological Chart**Blood pressure, pulse
temp., weight,
height, BMI and lab
value

VirtualPatient

Hamish McDonald



Select a visit

Visit #1

Age
81**Sex**
Male**Marital status**
Married**Race/Ethnicity**
White**Occupation**
retired fisherman**Education**
dropped out at 16

Medical History

This patient's
recorded history

Problem List

This patient's
recorded problems

Medication Chart

All medication cur-
rently taken by this
patient

Physiological Chart

Blood pressure, pulse
temp., weight,
height, BMI and lab
value

Notes



Examination



Investigation

General examination

Well-developed, moderately overweight man looking younger his stated age. He is clean and appropriately dressed. He is polite and appears calm.

Eyes

Disc margins sharp, no papilledema. Some arteriolar narrowing, no A-V nicking, hemorrhages, exudates.

Chest

Thorax symmetrical, good expansion. Lungs resonant to percussion. Breath sounds normal. No rales, rhonchi, wheezes or rubs heard.



Cardiac

Precordium quiet, no heaves. Jugular veins 2 cm over sternal angle at 300. Carotid pulses 2+, no bruits. PMI in 5th intercostal space in midclavicular line, discreet. S1 and S2 normal, S4 present, no rubs, or murmurs.

VirtualPatient

Hamish McDonald



Select a visit

Visit #1

Age
81

Sex
Male

Marital status
Married

Race/Ethnicity
White

Occupation
retired fisherman

Education
dropped out at 16
Medical HistoryThis patient's
recorded history**Problem List**This patient's
recorded problems**Medication Chart**All medication cur-
rently taken by this
patient**Physiological Chart**Blood pressure, pulse
temp., weight,
height, BMI and lab
value**Notes****Examination****Investigation****Hematocrit**

44

Urine dipstick

No glucose, no protein, blood, ketones

The results from *Hematology, Coagulation, and Red Cell Enzymes, Clinical Chemistry, Toxicology and Serology* tests will be available tomorrow.**Laboratory tests****Lab results: Hematology, Coagulation, and Red Cell Enzymes**

Test	Result	Normal value
Hematocrit	44	41-53
Hemoglobin	15g/dL	13.5-17.5g/dL
Red blood cell count	$4.9 \times 10^6/\text{mm}^3$	$4.3-5.6 \times 10^6/\text{mm}^3$
Mean Corpuscular Hemoglobin Concentration (MCHC)	34gHb/dL	31-36gHb/dL
Mean Corpuscular Volume (MCV)	$90 \mu\text{m}^3$	$80-100 \mu\text{m}^3$
Leukocyte count	$8.8 \times 10^3/\text{mm}^3$	$4.5-11.0 \times 10^3/\text{mm}^3$
neutrophils	60%	54-62%
lymphocytes	28%	25-33%
monocytes	6%	3-6%
eosinophils	2%	1-3%

VIRTUAL PATIENT



Interactive ▾

Hamish McDonald

Question >

Examination >

Investigation >

Tutor >

What next? ▴



Select a visit

Visit #1 ▾

Age

81

Sex

Male

Marital status

Married

Race/Ethnicity

White

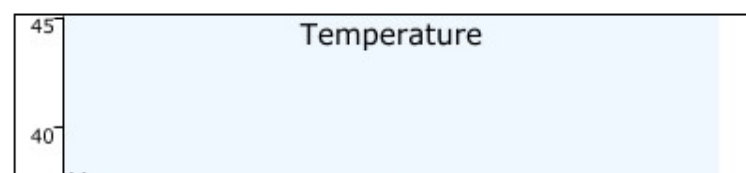
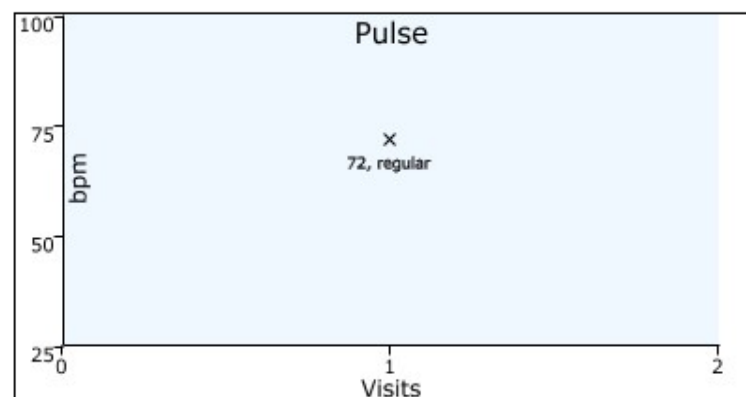
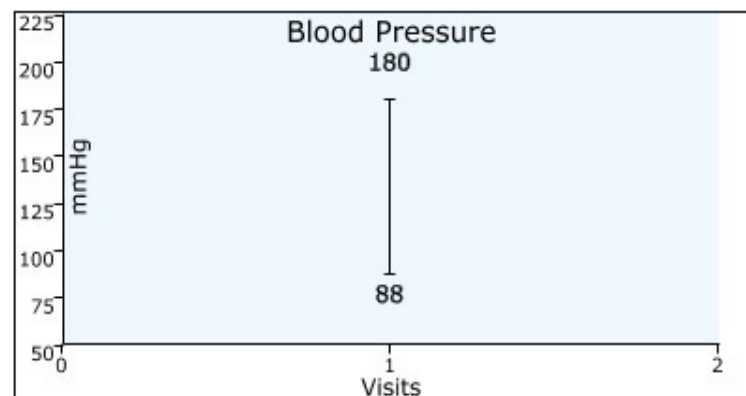
Occupation

retired fisherman

Education

dropped out at 16

Physiological charts for Hamish McDonald



Patient Record

This patients recorded history



Problem List

This patients recorded problems



Drug History

All medication currently taken by this patient



Charts

Blood pressure, pulse temp., weight, height, BMI and lab value



VIRTUAL PATIENT

guidance, help or
feedback.



Interactive

Hamish McDonald



Age
81

Sex
Male

Marital status
Married

Race/Ethnicity
White

Occupation
retired fisherman

Education
dropped out at 16

Select a visit

Visit #1

Question > Examination > Investigation > Tutor > What next?

Your virtual tutor can provide feedback on this visit.



Your Interactive Virtual Tutor says:

What new problems would you put on the problem list?

Enter your answer here.

Hypertension

[Click to see acceptable entries for your problem list:](#)

Medical History

This patients
recorded history



Problem List

This patients
recorded problems



Medication Chart

All medication cur-
rently taken by this
patient

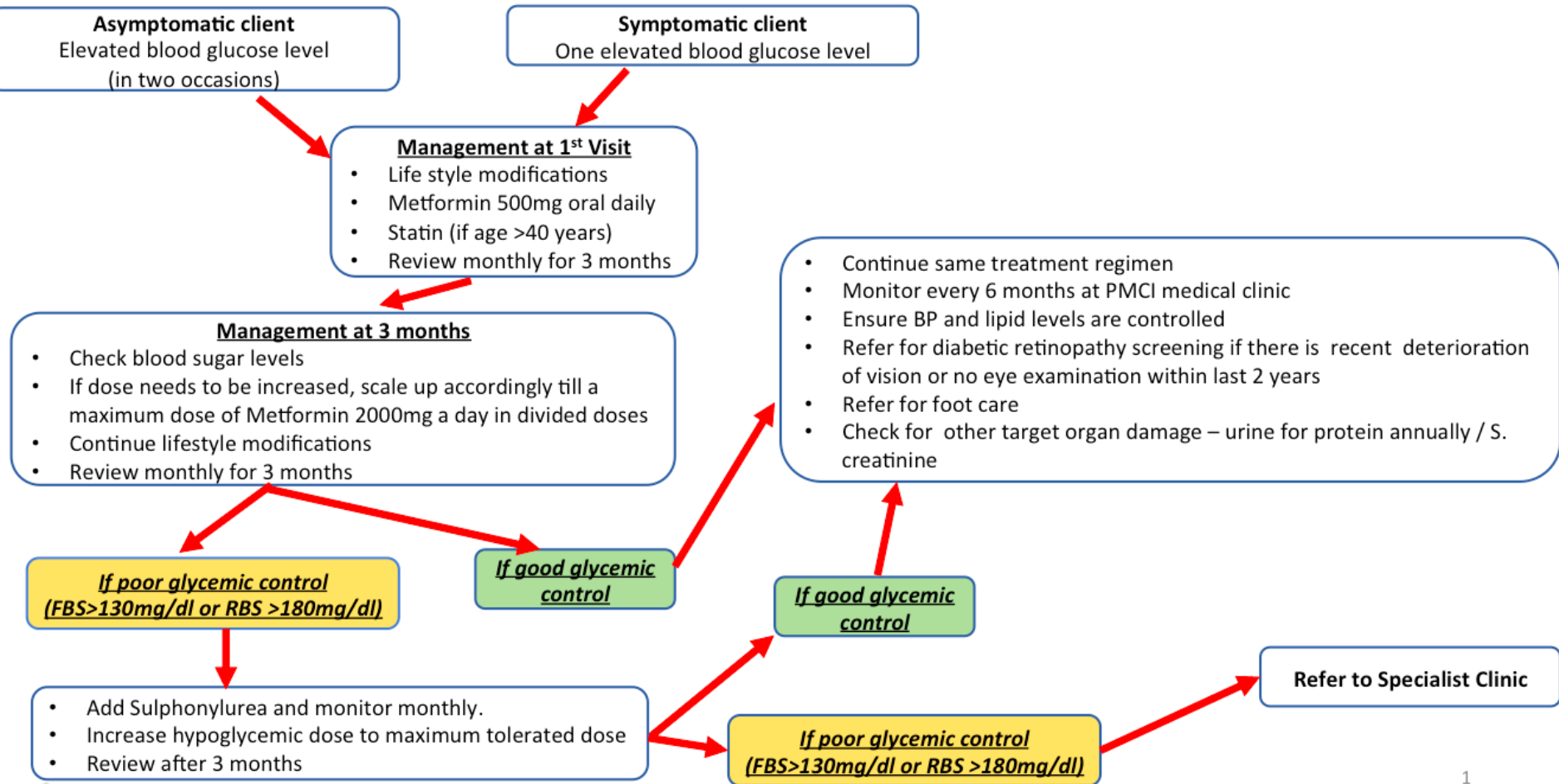


Physiological Chart

Blood pressure, pulse
temp., weight,
height, BMI and lab
value



Drug treatment of a newly diagnosed patient with diabetes



Post test

- SBA type quiz
- Provide feedback
- Can provide links to theory
- Further reference

The storyboard

- producing high quality eLearning is similar to producing a movie or documentary
- This is your script of how exactly the content should be arranged
- Word document
- Follow the same format for module

The Storyboard

- Add clear instructions
 - <add the introductory paragraph here>
 - <Insert image 1 here>
 - <Insert video here>
 - <Add the following questions as a quiz>
 - <Add a “continue” button>
 - <Add following as menu options>
- Can add screen shots to explain further

What we need

- Module content arranged into the template and storyboard format
- Material to be inserted, with clear instructions provided in storyboard
 - Images
 - Videos
 - PDF
 - PowerPoint
 - Online links, .e.g guidelines