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# Leeds Institute of Health Sciences

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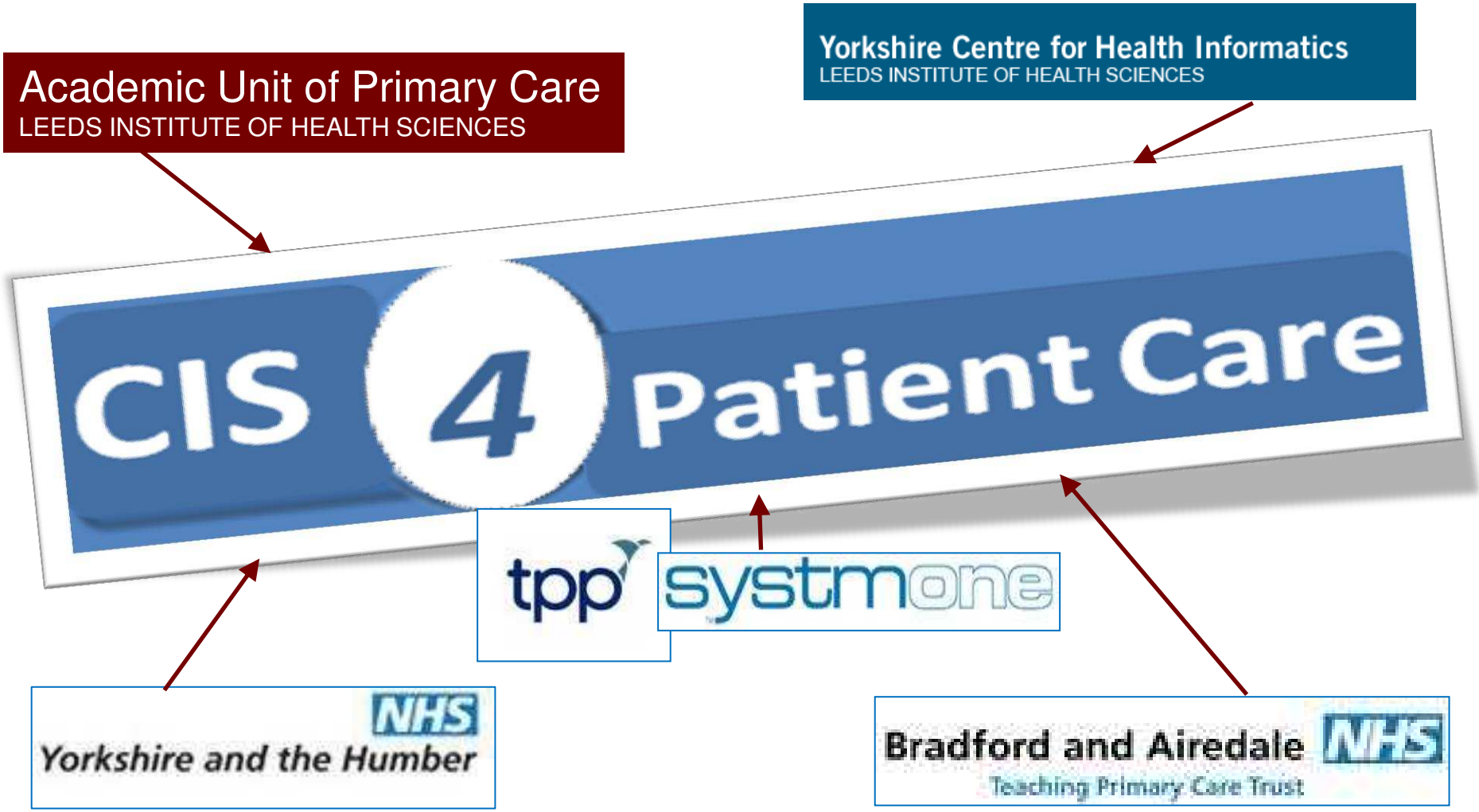

# Outline

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The session a standard 10 minute presentation

- the **C**linical **I**nformation **S**ystems for **P**atient **C**are **(CIS4PC)** project work

- Brief examples of how the University of Leeds delivers health informatics teaching through **CIS4PC** content and how we worked together to integrate health informatics and the technology into clinical teaching

5 minutes of questions

# Premise

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Health informatics and interactive use of technology are essential tools for health care providers/practitioners, ***yet there is still limited access for students in a safe learning environment***.

The health professionals of tomorrow **need to experience the technology** as students in order to be better practitioners when qualified.

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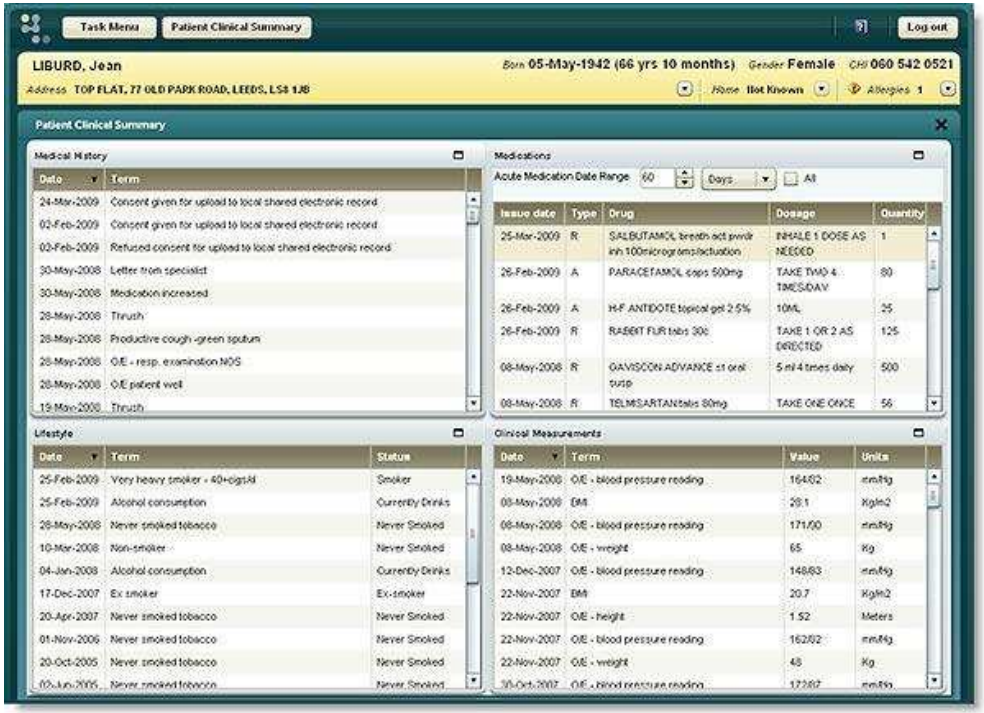

Health informatics technology is now common in both primary and secondary care settings

# Project Aim

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To ensure **healthcare professionals** across Yorkshire and the Humber are better able to use **Clinical Information System** (CIS)

**and**

that **the use of CISs** to teach **clinical medicine** is **maximised** at undergraduate and postgraduate levels and in continuing professional development.

# The Project

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Giving under/postgraduate students access to a ***'live'*** **Clinical Information System (*TPP*** systmone ***)***

The aim is not to teach ***the*** system but to enable students to **appreciate, access** and **navigate *any* Clinical Information System**

CIS4PC uses ***rich patient records*** developed with varying chronic diseases and backgrounds to aid the students '***live***' learning experience.

- Students access the 'live CIS system' and use individual patient records to support their learning

# Session 1

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**Aim:** To raise awareness of Clinical Information Systems (CISs) in the UK and how they are used to facilitate a comprehensive approach to effective and efficient management of patient information.

**Learning Objectives:**

- Have a better understanding of health informatics and its role in patient care
- Be aware of the available CISs in the UK
- Be more aware of the content and uses of a patient's CIS record
- Recognise the communication skills needed to enhance patient/multi professional communication
- Be more aware of the professional attitude needed to interact with patients, their records and other health care professionals.

## Introducing
## Clinical Information Systems

# Session 2

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**Aim:** To enable students to navigate a Clinical Information System (CIS)

**Learning Objectives:**

- Understand the term 'health informatics'
- Navigate and record patient information electronically
- Understand personal & professional responsibilities, especially accurate record keeping, when working with patients & other professionals using CISs
- Appreciate the value & importance of clinical coding

## Navigating

## the Clinical Information System
## Electronic Patient Record

# Example:
# Tool for Navigating CIS

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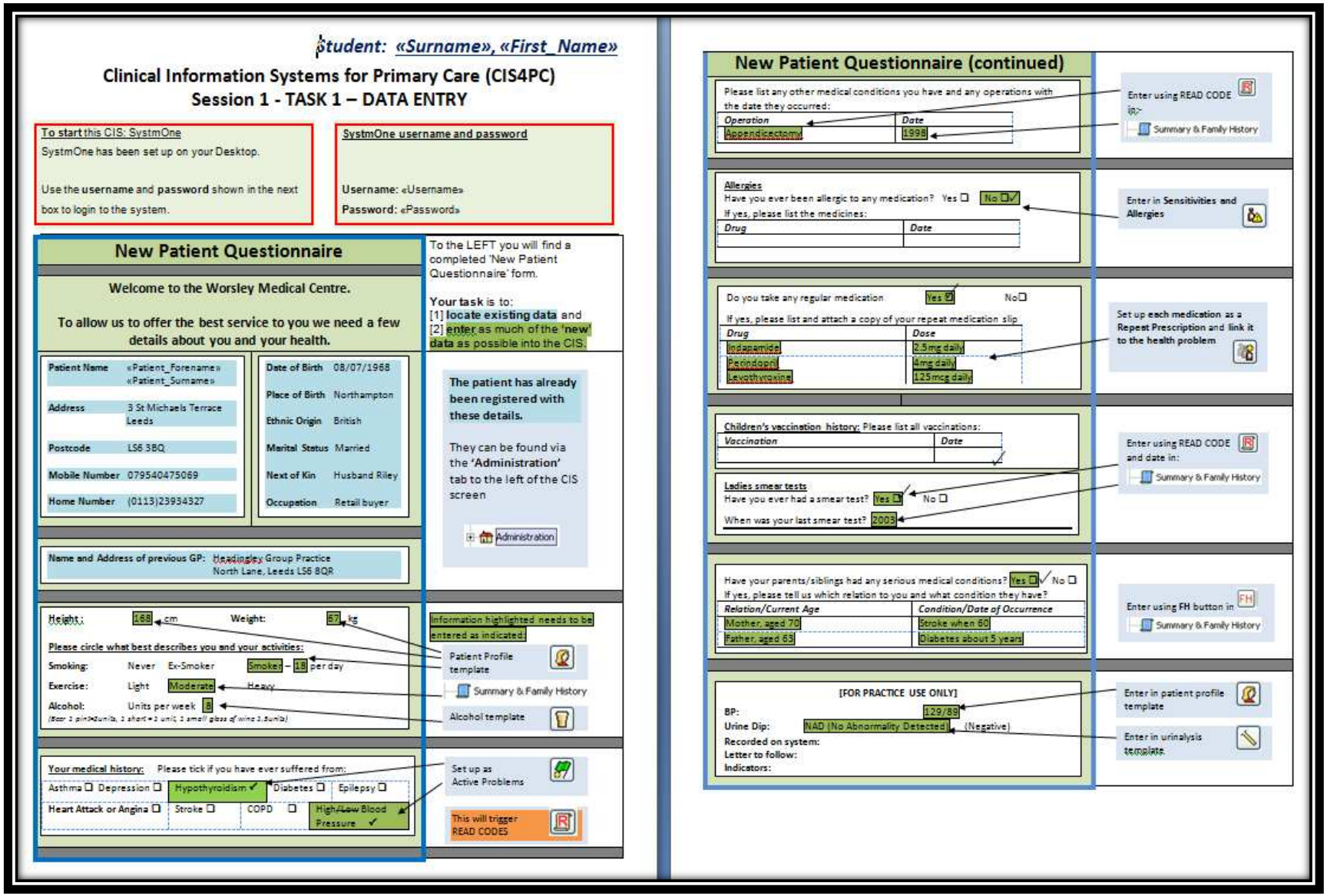

# Session 3

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## Clinical Information Systems and the Consultation

**Aim:** To enable students to effectively use the Clinical Information System (CIS) to enhance the patient consultation.

**Learning Objectives:**

- Appreciate the influence of the CIS/computer on the patient/professional consultation dynamics
- Investigate & explored a CIS/patient's Electronic Health Record (EHR)
- Accessed & interpret entries within the EHR
- Assess, plan, implement & recorded a plan of care
- Gain a better understanding of personal/professional responsibilities, behaviours & actions e.g.: record keeping, clinical coding
- Enhanced ability to work with patients/others, using the CIS

# Example: Tools used for exploring use of the CIS in a consultation

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## Doctor – Role Play

- How difficult was it to remain focussed on the consultation & the patient as opposed to the consultation & the CIS?
- Did the feedback raise issues you were NOT aware of?

## Patient/Observer – Role Play

- How easy was it to construct feedback whilst playing the patient?
- What were the key issues that need to be addressed in order to 'effectively use the computer in the consultation'?

# Session 4

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## Clinical Information Systems and Chronic Disease Management

**Aim:** To enable students to effectively use a Clinical Information System ( CIS ) to manage the care of a patient with a Chronic Disease.

**Learning Objectives:**

Review a patient with Diabetes and used the CIS to:

- Assess the patient's history
- Plan their future care/treatment plan
- Review &/or Prescribe their medication
- Liaise with other professionals
- Consider/apply appropriate coding to facilitate QOF and Audit

# Example: Tool used in Chronic Disease Management session

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Handout to support teaching

CIS 4 Patient Care

| Input the log in details and specific PATIENT on your OWN log in sheet | | | |
|---|---|---|---|
| Task | Content | Advice | Done |
| 1 | **Access and interrogate** the patient 's electronic record | Look into the patient record to find relevant details and basically how to navigate the system | |
| 2 | **Complete** the **Diabetes template** | This can be found in the table to the left of the screen titled **'CLINICAL'.**<br>At the bottom is **'QOF'**<br>Click on the **'+'** sign and you will find the template.<br>Right Click on the template to open it.<br>**BP 164/96 ECG Normal** | |
| 3 | Complete QRisk2 Calculation | In the titles header bar you will find 'Clinical Tools' select and complete | |
| 4 | **Send a referral** to the Dietician | There are several ways this can be done:<br>In the table to the left of the screen titled **'CLINICAL'**<br>- select '**Communication & Letters',**<br>- Right Click, select **'New Letter'**<br>o Sender **'This organisation'**<br>o Recipient **'A SystmOne user'**<br>o Select 'Ok'<br>- Type in (***name of session lead***) [then search]<br>o Select 'Ok'<br>**RECIPIENT**: pre filled in | <br> |

Handout to support teaching

CIS 4 Patient Care

| | | | |
|---|---|---|---|
| | | **SENDER**: Add your own name<br>**WRITING:**<br>o Letter Type: select ***'Referral'***<br>o Editor: select ***'MS Word'***<br>o Template: *select* ***'Diabetes Referral Form'***<br>- Select '***Write Now'***<br>If any 'error' messages appear, click 'okay' until referral opens.<br>- select **' Send'** or **'Amend later'** | <br> |
| 5 | **Prescribe / Review** appropriate medication | Consider the information gained at the consultation. What medication needs added to the patient's current medication? | |
| 6 | **Send a task** to another professional involved in patient's care | In the titles header bar you will find either the icon **'Task'** or under the Workflow header **'New Task'**<br>Select: **University Worsley Practice,**<br>Send to: (***name of session lead***) | |
| 7 | **Generate a prescription** and a **'repeat medication template'** | DO NOT PRINT | |
| 8 | **Record** the consultation **Apply clinical coding** (QOF) as appropriate for audit purposes | Using the **'Start Consultation'** box, record your experience with the patient | |

# Developing: Session 5

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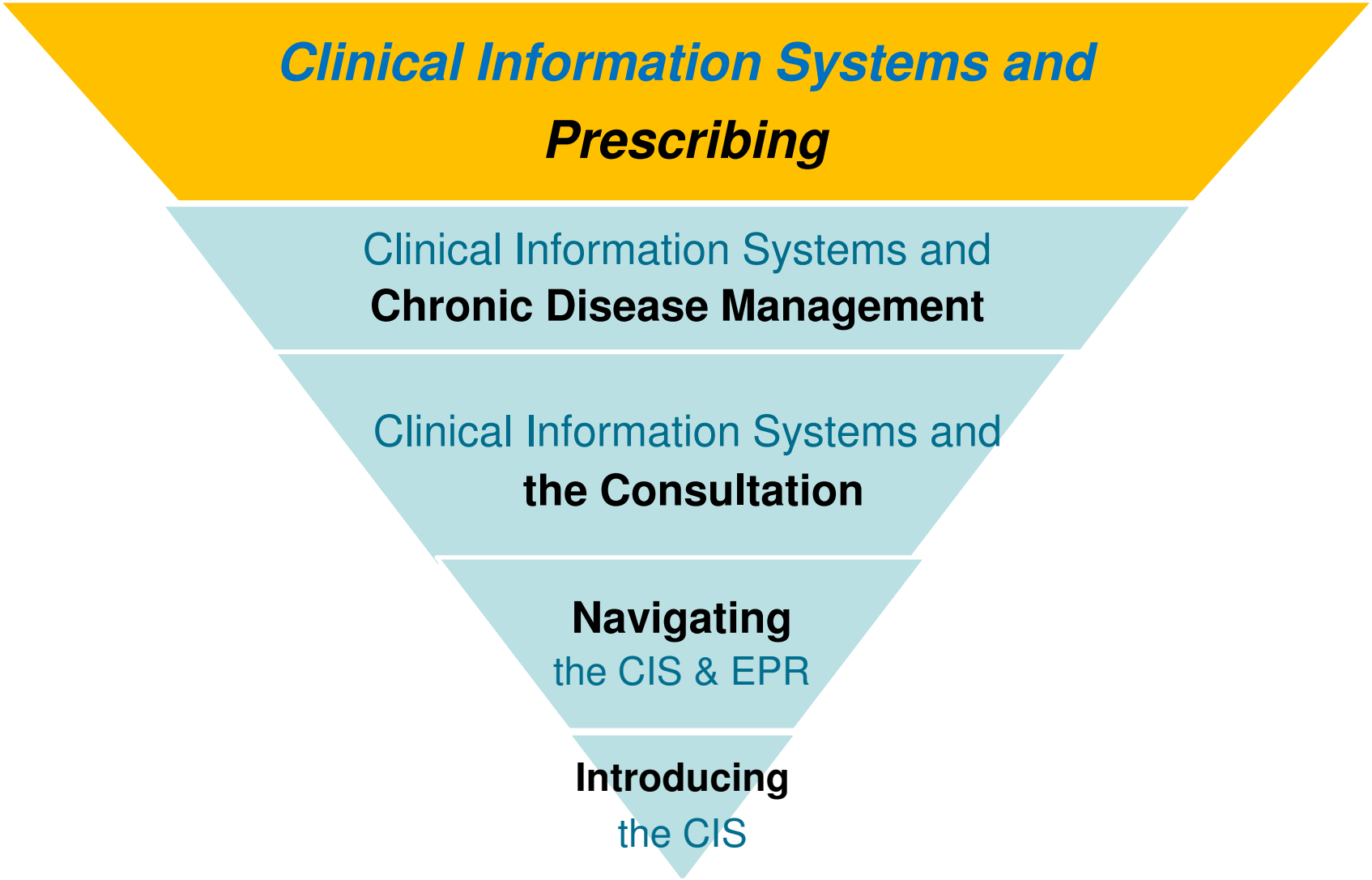

# Health Informatics teaching helps shape future health practitioners

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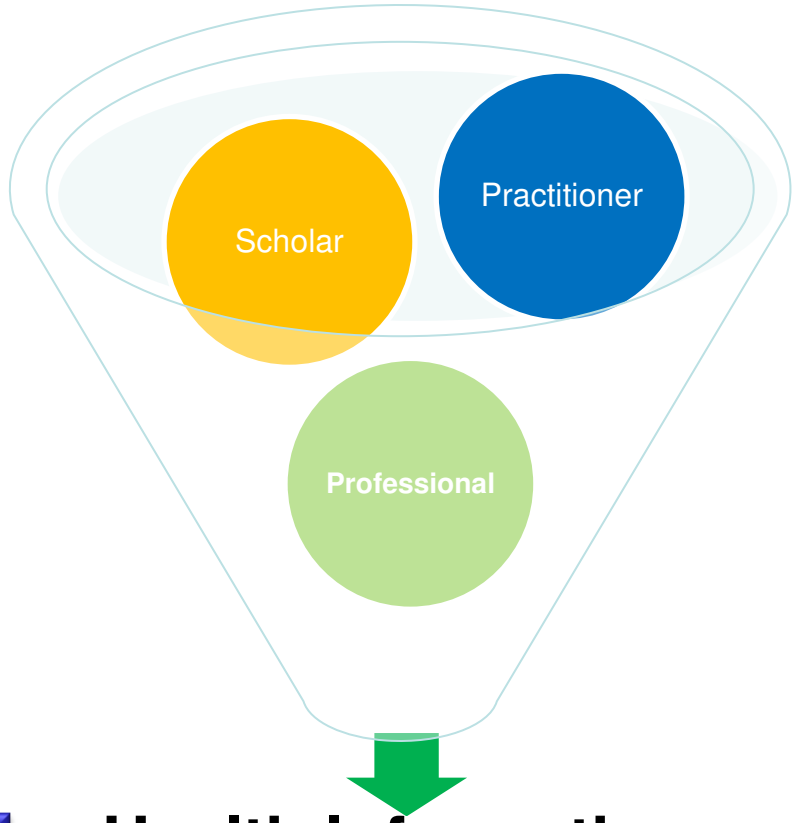
The health professional as:

- a scholar
- a practitioner
- a professional




**The teaching can combine the three essential disciplines of scholar, practitioner and professional.**

# Outcome: An effective health practitioner who can....

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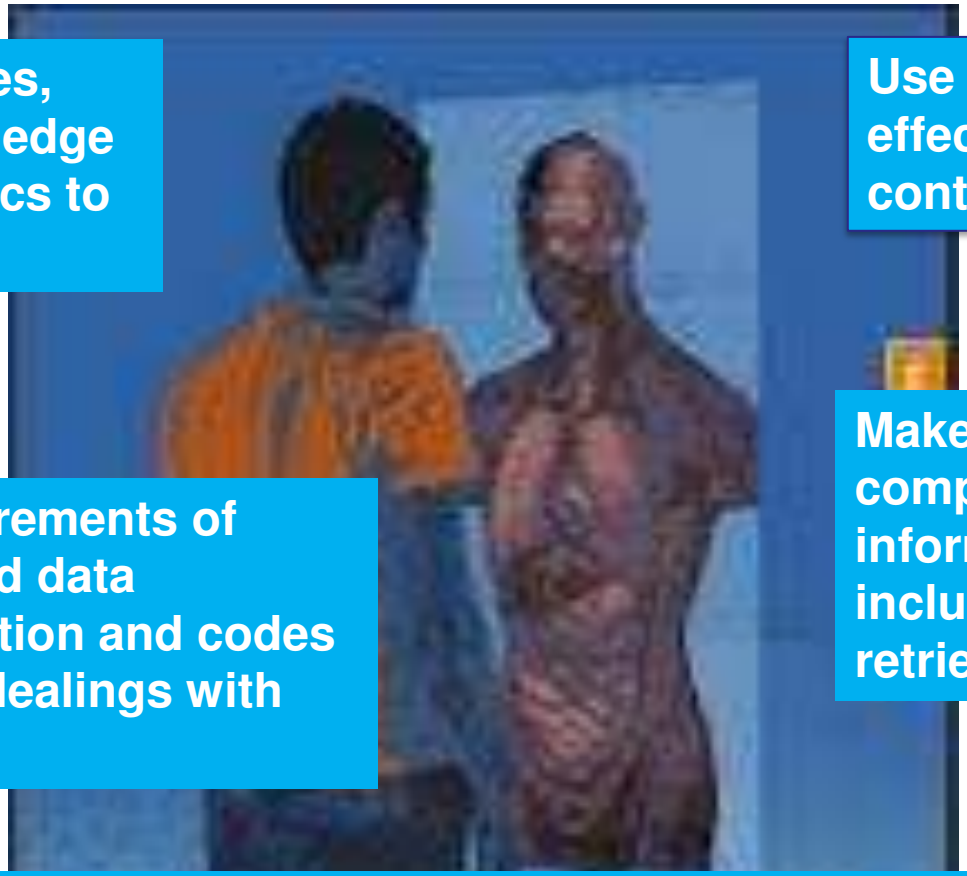
Apply the principles, method and knowledge of health informatics to medical practice



Use information effectively in a medical context

Make effective use of computers and other information systems, including storing and retrieving information

Keep to the requirements of confidentiality and data protection legislation and codes of practice in all dealings with information

Access information sources and use the information in relation to patient care, health promotion, giving advice and information to patients, and research and education

# Coverage /Use

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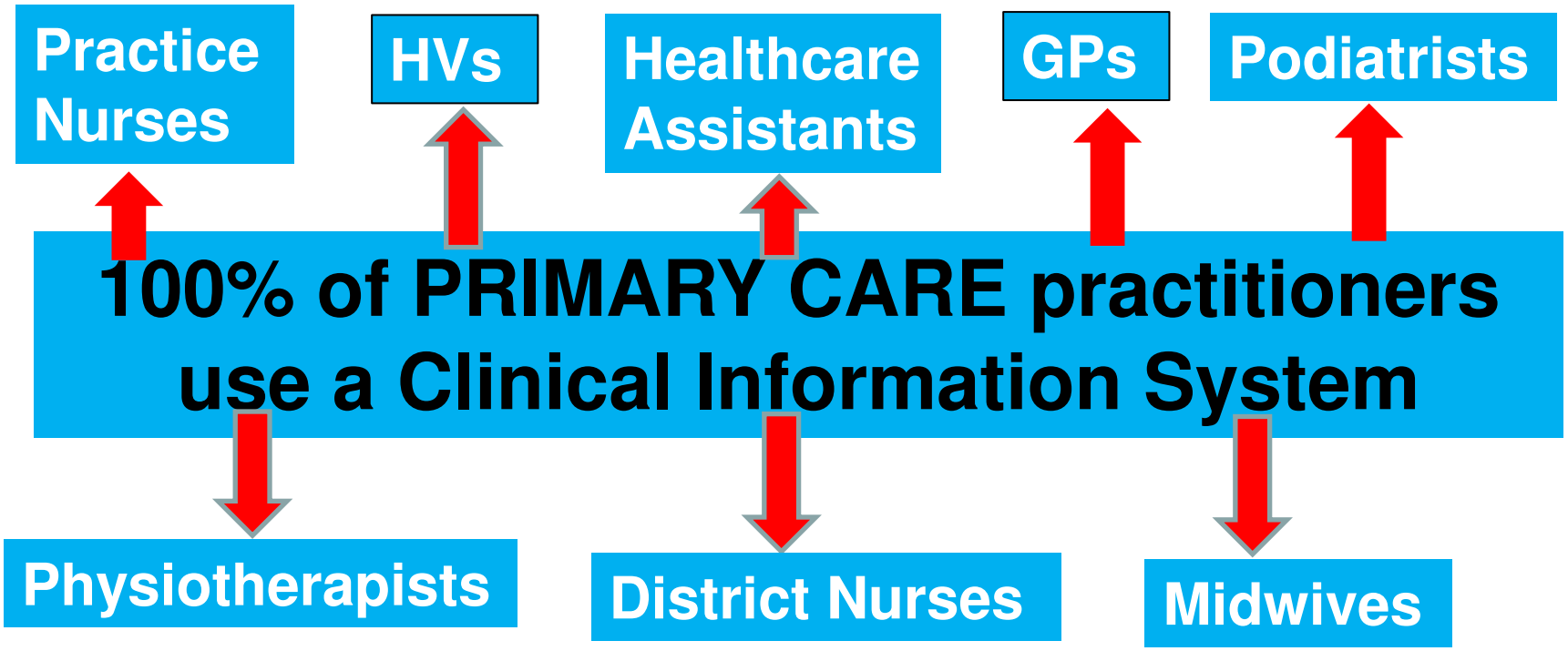


**CIS4PC content is transferable/adaptable for all healthcare students:**

Resources currently delivered within West Yorkshire to healthcare students in single and multi/inter disciplinary sessions.

University of Leeds: **MBChB & Nursing**;

University of Bradford: **Nursing, Midwifery, Radiography, Occupational Therapy**, & **Physiotherapy**

## Any Questions?

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