

*Faculty of Medicine*

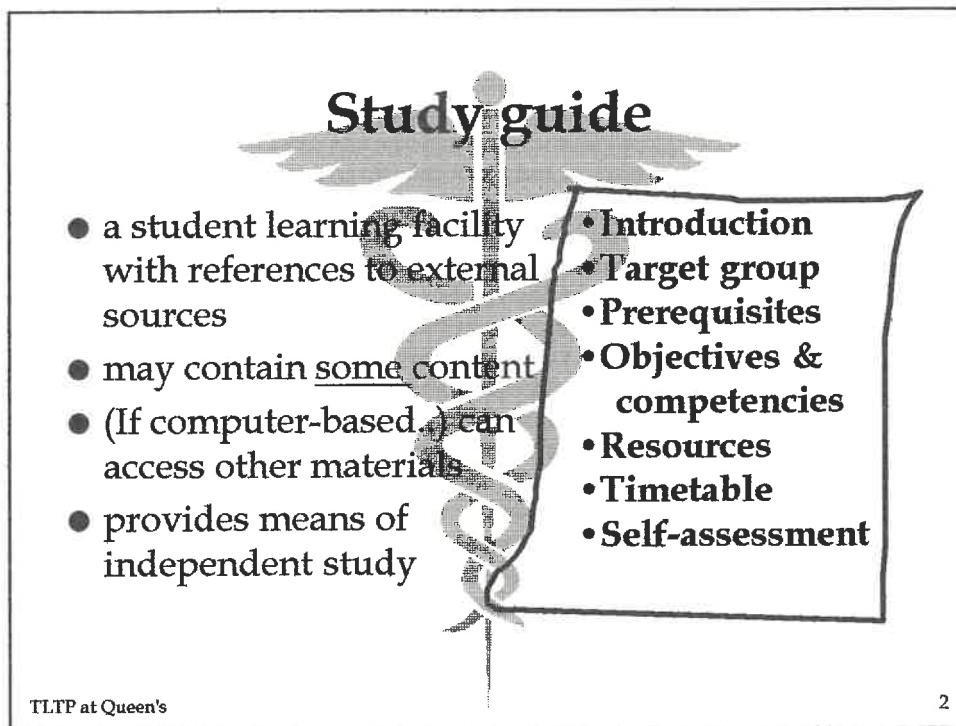
## Technology Programme

- Technology-based learning in medicine beyond courseware
  - Using IT to improve teaching & learning
  - Curriculum database
  - Study guides

TLTP at Queen's

1

- Thank you Chairman, we have heard about the new ways we will be teaching, or facilitating learning of the students.
- Now I will discuss one scheme which is attempting to provide some assistance- the use of computers in the medical curriculum. The full name of the technology programme is = "Technology-based learning in medicine: beyond courseware". The project set out to implement IT in the curriculum- and not merely develop electronic courseware which might never be used. In other words the emphasis is on the use of IT. This is to be achieved using a database holding details of the new curriculum and the generation of study guides.....
- It may be useful to have a few words about study guides as these are an important aspect of the use of technology in self-directed learning....
-



## Study guide

- a student learning facility with references to external sources
- may contain some content
- (If computer-based, you can access other materials)
- provides means of independent study

- **Introduction**
- **Target group**
- **Prerequisites**
- **Objectives & competencies**
- **Resources**
- **Timetable**
- **Self-assessment**

TLTP at Queen's 2

■ A study guide is.... *(read the screen)*

■ Typically it will contain... *(from the screen)*

■ The **resources** listed in the study guide could be CAL, video, text-books, journal articles, museum specimens, ward/clinic/surgery opportunities.

■ The **timetable** will give dates and times of learning opportunities: lectures and tutorials

■

■

■



### Seven partners

● Aberdeen	Study guides; staff development
● Belfast	Log
● Dundee	Study guide; lap-top; project lead
● Edinburgh	Unsupported settings
● Glasgow	Question banks; Quality & Audit
● Liverpool	Computer-based cases
● Newcastle	Major user

TLTP at Queen's 3

■ The consortium comprises seven medical schools; listed here. And I have noted the main areas of interest in each case:

- |               |   |
|---------------|---|
| ■ ● Aberdeen  | study guides; staff development   |
| ■ ● Belfast   | log   |
| ■ ● Dundee    | study guides on Urology, anaesthetics, forensic medicine, genitourinary medicine; lap-top project; project lead |
| ■ ● Edinburgh | Unsupported settings  |
| ■ ● Glasgow   | Question banks; Quality & Audit   |
| ■ ● Liverpool | Computer-based cases  |
| ■ ● Newcastle | Major user, new curriculum starts Autumn 94   |


■ The overall theme is to provide a "framework" to help students learn

"Will work on any computer"

1 Oct 92 → Sept 95

## Student log: current status

- Course details
- Log learning experiences
  - record detail
- Make links between experience & course objectives
  - examine links
- Staff & student input



TLTP at Queen's 4

- The student log is part of the curriculum database which
- Firstly enables the student to (select a course from a “pick
- list”) and inspect course details. Secondly the programme
- allows the student to log their individual learning
- experiences “against” particular objectives. They may
- record a title, the type of experience (e.g. lecture, ward..),
- the course, presence/absence. They can make further notes
- as well. Thirdly - And this is what we feel provides a
- certain “added value” of the log- the student can make a
- link from their experience to one (or more) objectives in
- one (or more) courses. We think this is a key part of our
- work as it may enable students to seek links between
- different courses. Whilst we (in Belfast) are totally
- responsible for the student input, it has been necessary to
- write a staff module to allow input of the various courses-
- in the final system, this may be achieved elsewhere.

**Next Steps**

- Student log: trial
- Study guides: trial
- New student skills
- Staff development
  - computer skills

TLTP at Queen's 5

- •We have produced the student log system as I have described and it is now ready to trial in the department of General Practice..
- Shortly it will be made available to other consortium members for assessment. We would wish to see the student log taken up by other teaching departments at Queen's. At the same time the others have been producing study guides and computer-based cases for us to assess- some have already been received from other centres and we will need your help in putting them on trial.
- • We expect the students to be able to use the log, the study guides etc., throughout their course- so their computer skills are obviously important- we should have a look at the introductory lectures which Miss Crawford provides to first year students.
- •But more vital perhaps, is the role of staff in this development. Will we be able to generate our own study guides, or ammend the guides produced at other centres for our own courses?
- •Perhaps this is the time to stop and hand over to Mairead (Boohan) who is dealing with staff development in more detail....