



The new tool for implementation of learning programs in Laboratory Medicine

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What has the IFCC been doing?

- Development of the new website started 5 years ago and was divided into two phases:
 - Phase 1: Total revamping of the website
 - Phase 2: Advanced, interactive features
- The first phase is now fully implemented

www.ifcc.org

- Improved interaction compared to old site
- Formation of C-DL and C-IeL to facilitate development of educational content.

Committee-Distance Learning (C-DL)

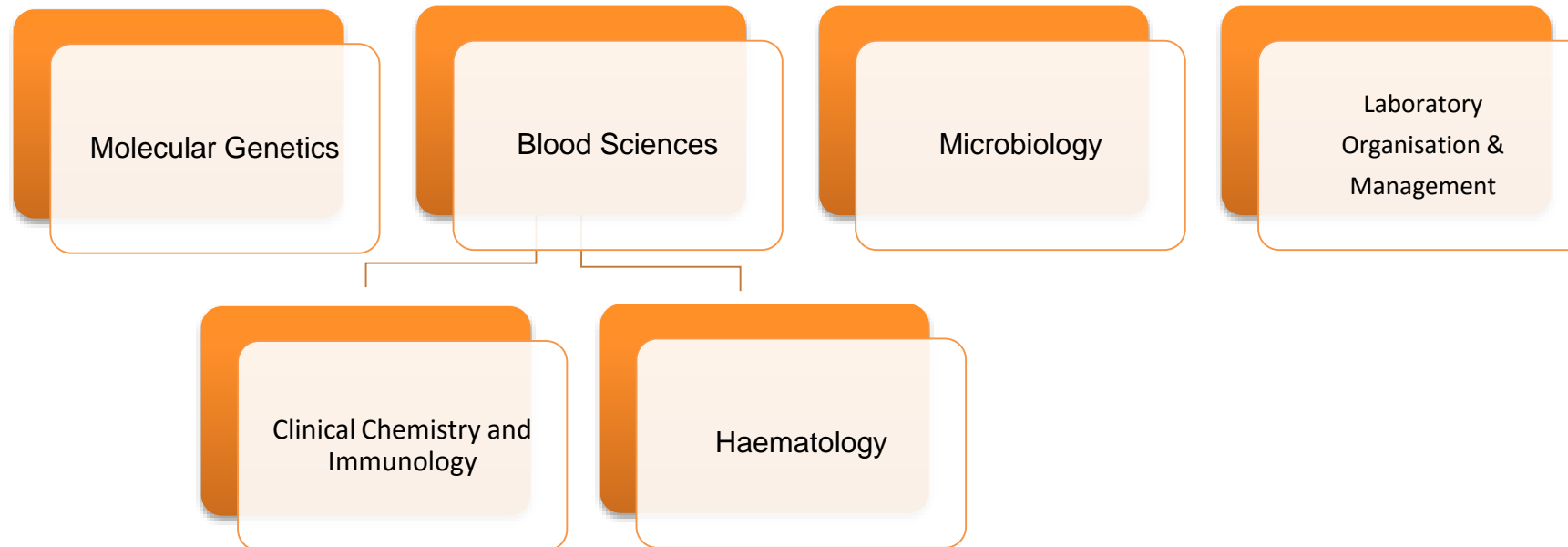
- Chair: Janet Smith
- Tasked with developing content by interaction with IFCC committees, task forces and working groups
- Undertook a survey of National Representatives in 2012
- Developed an IFCC 'curriculum'.
- Curriculum is the basis for the eAcademy structure

The IFCC Curriculum

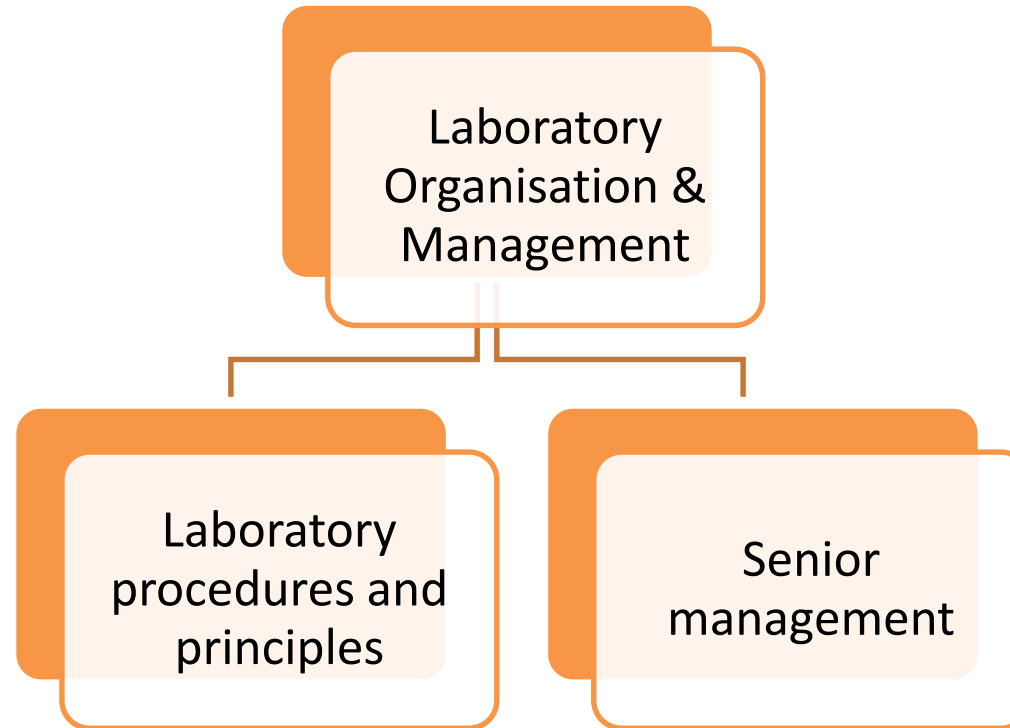
Design objective:

To create a framework for learning both theoretical and practical aspects of laboratory medicine to the level of knowledge required for expert professional practice.

Curriculum Structure



Curriculum Structure



Laboratory Procedures and Principles

- Specimen collection
- Specimen preparation
- Pre-analytical variables
- Biological variation
- Standard operating procedures
- Document control
- Internal quality control
- External quality assessment
- Method evaluation
- Standard curves
- Reference intervals
- Temperature monitoring

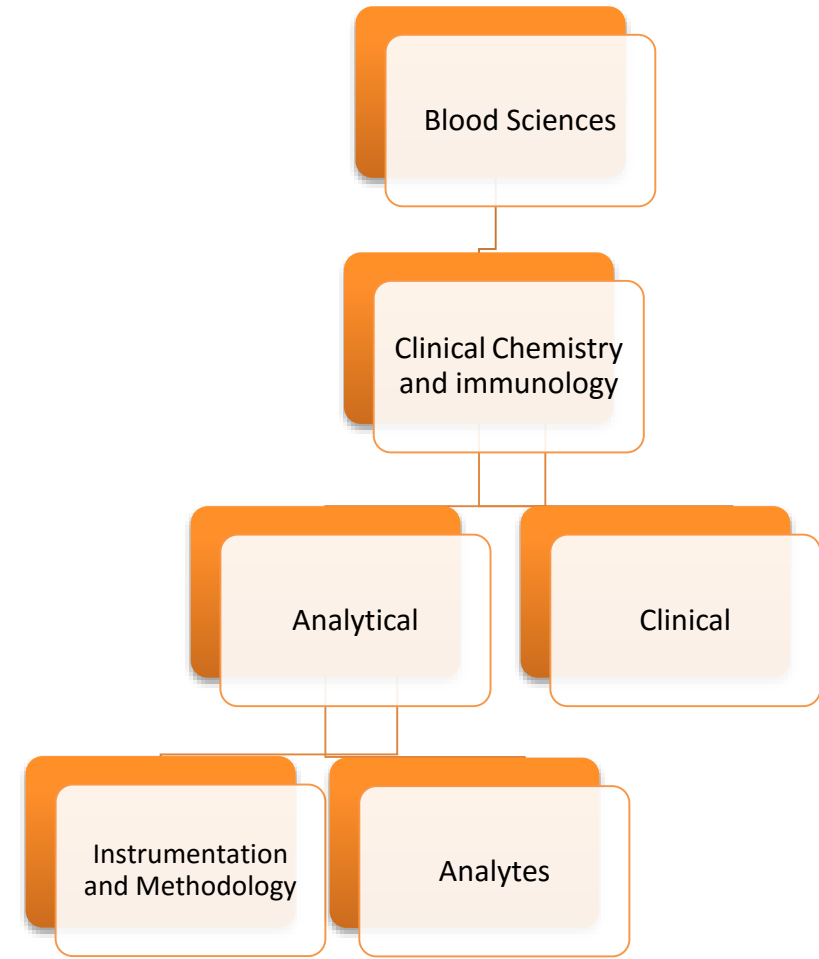
Senior Management

- Total quality management and quality systems
- Accreditation and ISO15189
- Budget management
- Personnel management
- Risk management
- Facilitating training and CPD for all department staff
- Professional ethics
- Instrumentation and method selection

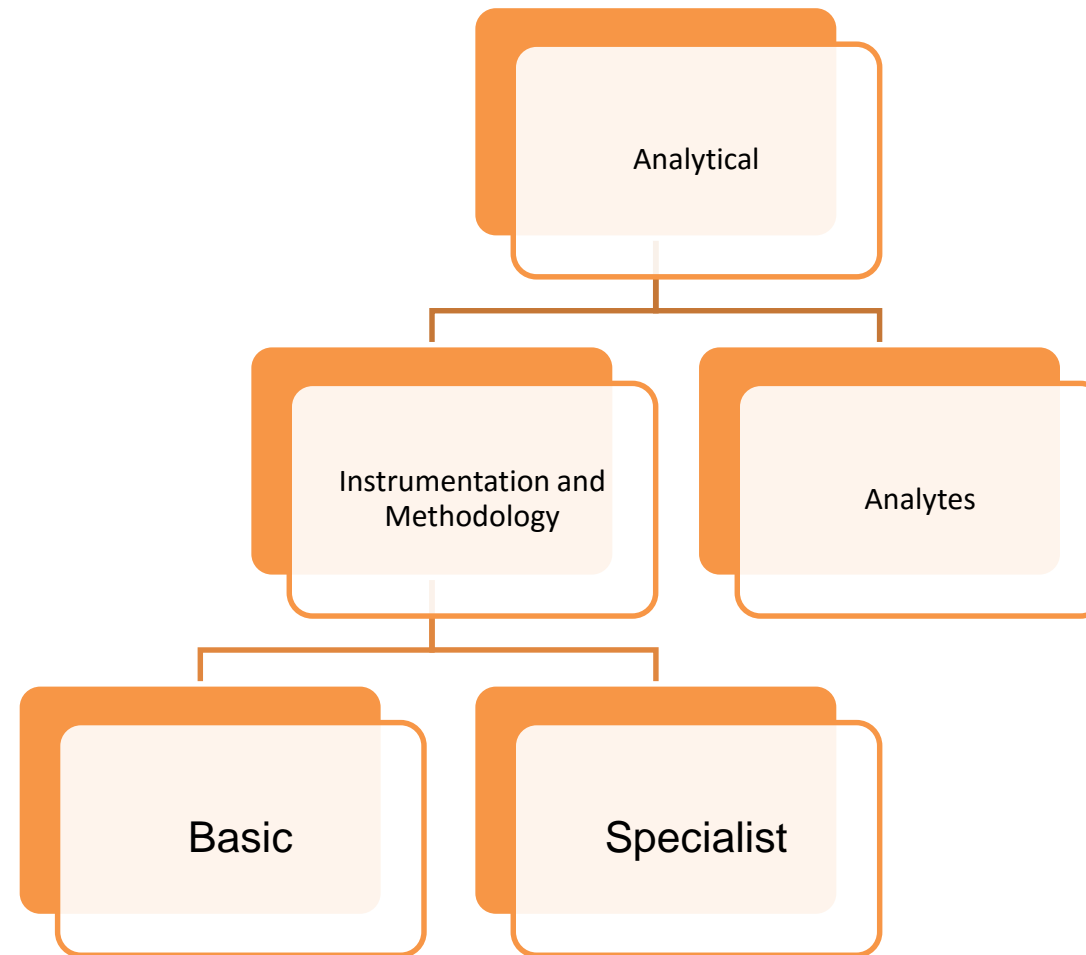
Senior Management

- Laboratory information systems (LIS), hospital information systems (HIS) and interfaces
- System design
- Advanced communication skills
- Evidence-based laboratory medicine
- Point of care testing policies and management
- Medico-legal requirements and legislation
- Clinical and professional liaison
- Initiation of and collaboration in research activities
- Requesting and reporting policies
- Laboratory design and construction

Curriculum Structure



Curriculum Structure



Instrumentation and Methodology: Basic

Concepts:

- Quantities and Units
- Balances
- Centrifuges
- Waterbaths
- pH meters
- Microscopes

Instrumentation and Methodology: Basic (2)

Techniques:

- Volumetric measurement
- Pipetting
- Weighing
- Buffer preparation
- Extractions
- Dialysis
- Centrifugation
- Filtration
- Ultrafiltration
- Freeze drying

Instrumentation and Methodology: Specialist

- Spectrophotometry
- Luminescence and fluorescence
- Flame emission photometry
- Atomic absorption
- Spectrophotometry and ICP-MS
- Principles of chromatography
- Mass spectrometry
- Nephelometry and turbidimetry
- Main analyser platforms and automation.
- Ion selective electrodes
- Acid-base measurement



- A curriculum based approach to catalogue and access educational material on the IFCC website
- Development of a Learning Management System (LMS)
- Allow users of website to find relevant material more easily and to also receive 'credit' for accessing material (CPD)

Learning Management System

- System to allow tracking of an individuals access to educational material and knowledge of material via online 'examination'
- Also allows a hierarchical approach to learning through completion of curriculum based modules
- Examples include Moodle, and Blackboard



- Insoft Digital has developed the concept, description and functionality
- Initial release included the most common features
- Next phase will include more advanced features including membership options, for tracking and crediting and producing CPD reports.

Development of Material

- Currently sourcing material from national associations such as AACB and EFLM
- Recording of webinars at IFCC auspiced events
- Targeted recordings utilising the present.me platform.

Upload

Upload

Record

1. Choose what you want to create



Slides and Video

Record video

Upload video



Slides and Audio

Record audio

Upload audio



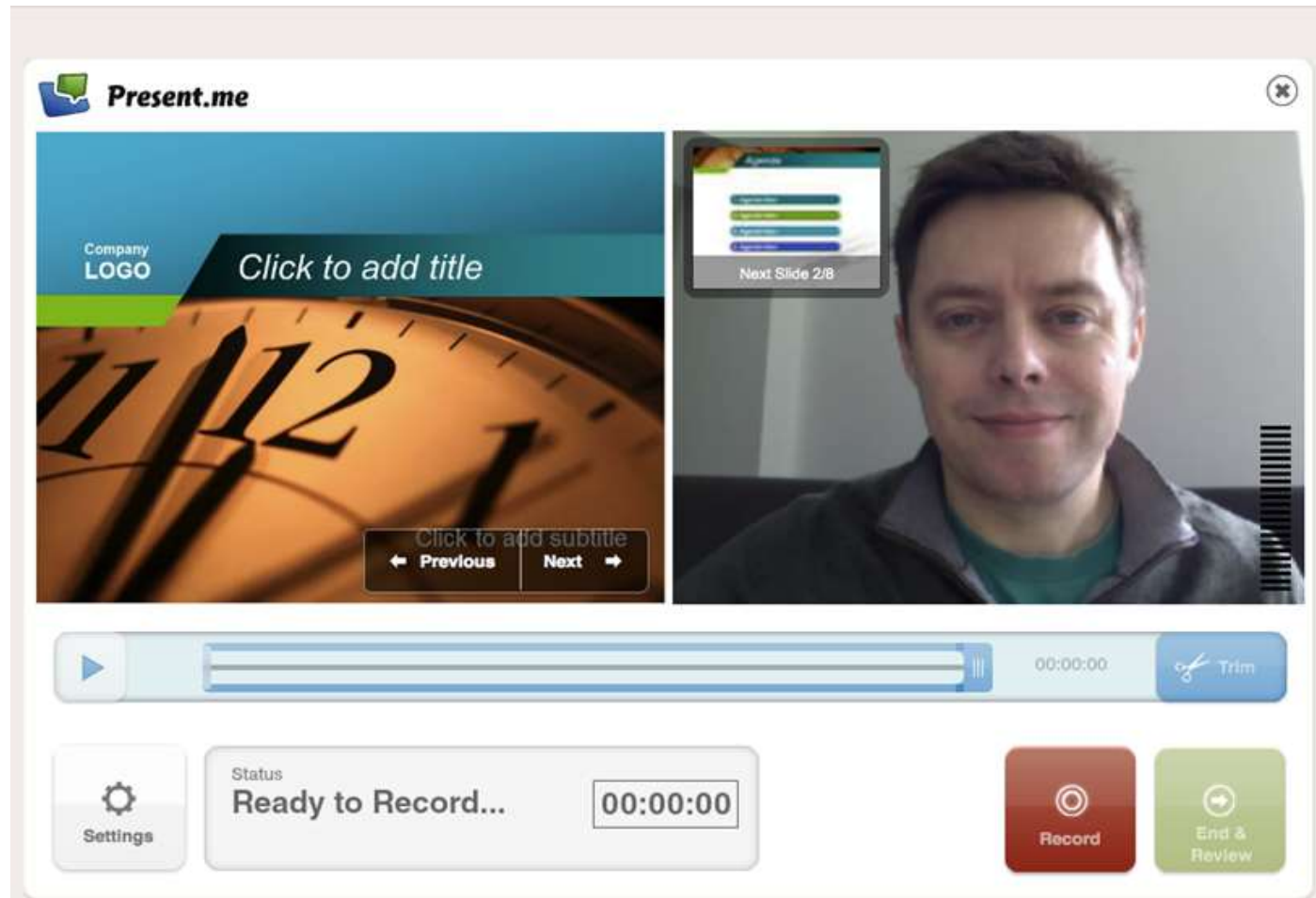
Slides



Video

Proceed

Present.me recording




The image shows the Present.me recording interface. At the top left is the Present.me logo. The main area is split into two panels: a presentation slide on the left and a video feed of the presenter on the right. The slide features a blue header with 'Company LOGO' and 'Click to add title', a large image of a clock face, and a 'Click to add subtitle' button with 'Previous' and 'Next' navigation arrows. A small thumbnail of the next slide is visible in the top right of the slide panel. Below the panels is a video player with a play button, a progress bar, and a 'Trim' button. At the bottom, there is a 'Settings' button, a 'Status' box showing 'Ready to Record...' and a timer at '00:00:00', a red 'Record' button, and a green 'End & Review' button.

IFCC eAcademy × +

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The IFCC eAcademy is an open educational resource containing distance learning material created and/or reviewed by IFCC experts for the continuous professional development of members of IFCC member organisations. This new educational tool is being developed by the C-DL and C-Iel. Suggestions for topics, content or contributions may be made using the Contact Us form on the IFCC website.

Q Search the entire eAcademy....

keyword

👍 ... or browse by topics

Thank you!

For further information visit
www.ifcc.org