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9.1.2. Strategy
9.1.3. Projects
9.1.4. Terms of Reference

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9.2.2. Analytical Quality (C-AQ)
9.2.3. Evidence Based Laboratory Medicine (C-EBLM)
9.2.4. Clinical Laboratory Management (C-CLM)
9.2.5. Distance Learning (C-DL)

9.3. Education and Management Division Working Groups
9.3.1. Laboratory Errors and Patient Safety (WG-LEPS)

9.4. Education and Management Division Special Projects
9.4.1. Visiting Lecturer Programme (VLP)
9.4.2. Flow Cytometry (WG-FC)
9.4.3. Developing Quality Competence in Medical Laboratories (DQCML)

EDUCATION AND MANAGEMENT DIVISION EXECUTIVE COMMITTEE (EMD-EC)

Chair:
Prof. Maurizio FERRARI (IT)

Vice Chair:
Prof. Leslie LAI (MY)

Members:
Dr. Elizabeth FRANK (IN)
Prof. Stella RAYMONDO (UY)

Corporate Representative (Secretary):
Dr. Rolf HINZMANN (DE)
9.1. Mission Statement

EMD will provide IFCC members and the healthcare community with education relevant to Clinical Chemistry and Laboratory Medicine, directed at scientific, management and clinical issues.
9.2. EMD Committees

9.2.4. Clinical Molecular Biology Curriculum (C-CMBC)

Membership

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Country</th>
<th>Term</th>
<th>Time in Office</th>
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<tbody>
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<td>M. Neumaier</td>
<td>Chair</td>
<td>DE</td>
<td>2nd</td>
<td>2011-2013 12</td>
</tr>
<tr>
<td>A. Ferreira-Gonzalez</td>
<td>Member</td>
<td>US</td>
<td>1st</td>
<td>2011-2013 12</td>
</tr>
<tr>
<td>K. Izhara</td>
<td>Member</td>
<td>JP</td>
<td>2nd</td>
<td>2012-2014 12</td>
</tr>
<tr>
<td>E. Lianidou</td>
<td>Member</td>
<td>GR</td>
<td>2nd</td>
<td>2012-2014 12</td>
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</tbody>
</table>

Terms of Reference
The objective of the C-CMBC is to develop curriculum and hold training courses in molecular biology techniques. In addition, C-CMBC will develop techniques for teaching clinical molecular biology in laboratory medicine and courses in teaching clinical molecular biology.

Projects
- Clinical molecular biology courses
- Symposia at international congresses
- Liaison with other special international groups
- Molecular biology courses at regional meetings

9.2.5. Analytical Quality (C-AQ)

Membership

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Country</th>
<th>Term</th>
<th>Time in Office</th>
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<tbody>
<tr>
<td>E. Amann</td>
<td>Co-Chair</td>
<td>DE</td>
<td>1st</td>
<td>2011-2013 12</td>
</tr>
<tr>
<td>J. Gill</td>
<td>Co-Chair</td>
<td>AU</td>
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<tr>
<td>D. Bullock</td>
<td>Member</td>
<td>UK</td>
<td>2nd</td>
<td>2011-2013 12</td>
</tr>
<tr>
<td>A. Vassault</td>
<td>Member</td>
<td>FR</td>
<td>2nd</td>
<td>2011-2013 12</td>
</tr>
<tr>
<td>M. Scott</td>
<td>Member</td>
<td>US</td>
<td>1st</td>
<td>2010-2012 12</td>
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<tr>
<td>New appointment pending</td>
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Terms of Reference
1. To provide education and training on the various aspects of analytical quality in the clinical laboratory which include:
   a. methods and instrument validation
   b. traceability concepts
   c. measurement uncertainty
   d. internal quality control procedures
   e. external quality assessment programmes
2. To ensure proper control of pre-analytical & post-analytical variables
3. To address the educational and training needs of emerging nations on analytical quality
4. Education and training will be provided in many ways including:
   a. written material
   b. electronic teaching
   c. workshops and seminars
   d. invited lectures
   e. consultations
5. To collaborate with other IFCC committees or working groups to achieve these aims

9.2.7. Evidence Based Laboratory Medicine (C-EBLM)

Membership

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tr>
<td>R. Christenson</td>
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</tr>
<tr>
<td>D. Aslan</td>
<td>Member</td>
<td>TR</td>
<td>2nd</td>
<td>2012-2014 12</td>
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<tr>
<td>H. Fares Taie</td>
<td>Member</td>
<td>AR</td>
<td>1st</td>
<td>2011-2013 12</td>
</tr>
<tr>
<td>C. Florkowski</td>
<td>Member</td>
<td>NZ</td>
<td>2nd</td>
<td>2012-2014 12</td>
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</table>

Terms of Reference / Mission
To promote the methodology and practice of evidence-based medicine in the laboratory profession.

Aims and Objectives
The aims and objectives of the Committee on Evidence-based Laboratory Medicine are to:
1. Promote the understanding and the methodology of EBLM by educating laboratory professionals about:
   - How to find the evidence
   - How to appraise the evidence
   - How to act on evidence
2. Support rational laboratory use by implementation of results from EBLM into daily practice. This can be achieved by methodological research, international surveys and by educating laboratory professionals in the following topics:
   - How to perform primary diagnostic studies
   - How to carry out systematic reviews in laboratory medicine
   - How to make evidence-based guideline recommendations in laboratory medicine
   - How to implement evidence-based diagnostic guidelines in clinical practice
3. Promote the international dissemination of and collaboration in EBLM

Projects
- Workshops and training in Evidence Based Laboratory Medicine
- Collaborative projects on the methodology and application of systematic reviews
- Research in evidence-based guideline development and implementation
- Promoting STARD (STAndards for Reporting of Diagnostic accuracy)
- Monitoring and updating of a systematic reviews database in laboratory medicine

9.2.9. Clinical Laboratory Management (C-CLM)

Membership

<table>
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<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>R. Erasmus</td>
<td>Chair</td>
<td>ZA</td>
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<tr>
<td>B. Goldsmith</td>
<td>Member</td>
<td>US</td>
<td>1st</td>
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<tr>
<td>J. Krahn</td>
<td>Member</td>
<td>CA</td>
<td>2nd</td>
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</tbody>
</table>

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Terms of Reference
The committee mandate is to produce monographs and/or handbooks on basic clinical laboratory management and to offer courses, seminars, workshops and expertise to IFCC members. The committee's focus is on addressing the needs of developing countries and working closely with other EMD committees to raise awareness of quality issue.

Planned Activities
- To produce a further IFCC monograph on Clinical Laboratory Management in collaboration with C-AQ.
- Closely co-operate with the Visiting Lecturer Programme and other EMD committees to effectively and efficiently ensure that the correct management resources are applied to the right place at the right time for a reasonable cost.

9.2.10. Distance Learning (C-DL)

Membership

<table>
<thead>
<tr>
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<th>Position</th>
<th>Country</th>
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<tbody>
<tr>
<td>J. Smith</td>
<td>Chair</td>
<td>UK</td>
<td>1st</td>
<td>2012-01-2014 12</td>
</tr>
<tr>
<td>R. Greaves</td>
<td>Member</td>
<td>AU</td>
<td>1st</td>
<td>2012-04-2014 12</td>
</tr>
<tr>
<td>D. Gruson</td>
<td>Member</td>
<td>BE</td>
<td>1st</td>
<td>2012-04-2014 12</td>
</tr>
<tr>
<td>E. Hoyaranda</td>
<td>Member</td>
<td>ID</td>
<td>1st</td>
<td>2012-04-2014 12</td>
</tr>
<tr>
<td>C. Webster</td>
<td>Member</td>
<td>UK</td>
<td>1st</td>
<td>2012-04-2014 12</td>
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</table>

Terms of Reference
- To develop an IFCC strategy for distance learning, in partnership with the Communications and Publications Division Committee on Internet and eLearning (CPD C-IeL).
- To provide educational material which can be used for on-line learning.
- To solicit suggestions from National Societies, IFCC Committees, Task Forces and Working Groups to identify distance learning topics of value to IFCC.
- To identify and evaluate existing distance learning programmes in relevant areas and, with permission and collaboration, modify these as necessary to fit IFCC requirements.
- To develop new distance learning programmes where none already exist.

9.3. EMD Working Groups

9.3.8. Laboratory Errors and Patient Safety (WG-LEPS)

Membership

<table>
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<tr>
<th>Name</th>
<th>Position</th>
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<th>Term</th>
<th>Time in Office</th>
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<tbody>
<tr>
<td>M. Plebani</td>
<td>Chair</td>
<td>IT</td>
<td>2nd</td>
<td>2010-1-2012 12</td>
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</table>

Mission
The WG mission is to stimulate studies on the topic of errors in laboratory medicine, to collect available data on this topic and to recommend strategies and procedures to improve patient safety.

Terms of Reference
- Focus on addressing errors in laboratory medicine.
- Improving the safety of laboratory testing.

- Improve the knowledge in the field at an international level.
- Recommend the development and application of standardised operating protocols.

Current Projects
- Improving awareness of laboratory professionals regarding the topic of errors and patient safety.
- Implementing pilot studies to evaluate laboratory errors frequency and types.
- Implementing projects for error reduction through the design of safer procedures and processes.
- Cooperating with other scientific organisations (WHO, AACC, ASCP, etc) for assuring improvements in the field of patient safety.
- Organising meetings and scientific sessions on the topic of laboratory errors and patient safety.
- Supporting the publications of papers on the topic of laboratory errors and patient safety in scientific journals and monographs.

9.4. EMD Special Projects

9.4.1. Visiting Lecturer Programme (VLP)

Membership

<table>
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<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>L. Lai</td>
<td>Chair</td>
<td>MY</td>
<td>2nd</td>
<td>2011-1-2013 12</td>
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</tbody>
</table>

Terms of Reference
This programme supports international cooperation in educational activities through funding of lectureships on professional, educational and managerial topics. National Societies are invited to apply for a Visiting Lecturer on a specific subject and/or request a lecturer.

Projects
- Promoting the VLP programme
- Additional visiting lectureships

9.4.2. Flow Cytometry (WG-FC)

Membership

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Country</th>
<th>Term</th>
<th>Time in Office</th>
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<tbody>
<tr>
<td>U. Sack</td>
<td>Chair</td>
<td>DE</td>
<td>1st</td>
<td>2011-6-2013 12</td>
</tr>
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</table>

Terms of Reference
The Working Group will promote and encourage applications of flow cytometry in diagnostics and clinical research through publication of educational material and the organisation of courses and symposia.

Projects
- Organisation of flow cytometry courses on the alternating topics of clinical and research applications of flow cytometry in haematology & oncology and immunology & haemostasis.
- Publication of course handbooks and other relevant material on flow cytometry.
- Organisation of symposia on new trends in cellular diagnostics.
- Publication of symposia proceedings.
9.4.3. Developing Quality Competence in Medical Laboratories (DQCML)

Membership

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Country</th>
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<th>Time in Office</th>
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<tbody>
<tr>
<td>M. Thomas</td>
<td>Consultant</td>
<td>UK</td>
<td>2nd</td>
<td>2012-2014</td>
</tr>
</tbody>
</table>

Terms of Reference

This major initiative for the EMD is aimed at informing emerging laboratory services on all aspects of quality, but concentrating particularly on internal quality control, external quality assessment and working towards laboratory accreditation with the adoption of a quality system in line with the international standard ISO 15189.

Projects

Educational modules, transferable to countries and regions requesting assistance in these areas have been developed and pilot projects in Vietnam (in collaboration with the Australian Association for Clinical Biochemistry) and Sri Lanka have already been supported. The project has been successful because of close working between the committees of EMD and the generous sponsorship of Abbott Diagnostics, via the VLP initiative and Siemens Healthcare, with whom we are working to develop distance learning packages.

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