Education and Management Division (EMD)

Chair: Dr Leslie Lai
From Left to Right: Silvia Cardinale - IFCC Office; Leslie Lai - Chair; Anna Leticia Maselli - member; Elizabeth Frank - Vice Chair; Paolo Fortina - Secretary; Andre Ziegler – Corporate Representative
EMD Symposium organised by Dr Elizabeth Frank at IFCC WorldLab, 23rd October 2017, 2-4 pm - sponsored by Abbott Diagnostics

Title: Risk Management and its utility in clinical Laboratory

How to prevent or minimise laboratory errors and nonconformity - E A Frank (India)

Managing risk within a robust quality framework – E A Frank (India)

Assessing levels of risk – E A Frank (India)

Developing an action plan following risk analysis – E A Frank (India)

Corrective actions and preventive actions - TS Pillay (S Africa)

Continual improvement – E A Frank (India)
EMD Committees

- Clinical Molecular Biology Curriculum (C-CMBC)
- Analytical Quality (C-AQ)
- Evidence-Based Laboratory Medicine (C-EBLM)
- Clinical Laboratory Management (C-CLM)
- Distance Learning (C-DL)
- Education in the Use of Biomarkers in Diabetes (C-EUBD)

Commenced in 2016
EMD Working Groups

• Laboratory Errors and Patient Safety (WG-LEPS)

• Flow Cytometry (WG-FC)

• Cancer Genomics (WG-CG)
  *Commenced in 2015*

• Harmonization of Interpretative Comments EQA (WG-ICQA)
  *Commenced in 2015*
EMD Special Projects

- IFCC-Abbott Visiting Lecturer Programme (IFCC-Abbott VLP)
- Developing Quality Competence in Medical Laboratories (DQCML)
- IFCC Mentoring Programme for Developing Countries (MENT)
9.02.04 Clinical Molecular Biology Curriculum (C-CMBC); Chair: Evi Lianidou

Evi Lianidou (GR) Chair 2nd 2017 01-2019 12
Ettore Capoluongo (US) Member 1st 2017 01-2019 12
Verena Haselmann (DE) Member 2nd 2017 01-2019 12
Andrea Ferreira-Gonzalez (US) Consultant

C-CMBC

• Lab-in-a-suitcase concept

• Hosting country sends a Trainee prior to the course to a C-CMBC central laboratory (Mannheim, Univ. of Heidelberg, Germany) to become acquainted with all the laboratory techniques and protocols to be used during the course.

• After returning back to the course venue country, the trainee receives the lab-in-a-suitcase, a custom-made aluminum case on rollers packed with all necessary equipment.

• The trainee’s task is to set up the laboratory prior to the C-CMBC tutors’ arrival.
C-CMBC Courses

• Syria (2009)
• Uruguay (2010)
• Guatemala (2011)
• Malaysia (2012)
• South Africa (2013)
• Philippines (2014)
• Lithuania (2015)
• Romania (2016)
• Slovakia (planned for 2017 but due to problems of communication has had to be postponed to 2018)
C-CMBC Symposium at EuroMedLab Athens 2017
“The Liquid Biopsy approach: Following the tumour in peripheral blood"

• Evi Lianidou (Greece) : The liquid biopsy approach: Following the tumour in peripheral blood
• Klaus Pantel (Germany) Biology and clinical implications of Circulating Tumour Cells (CTCs)
• Evi Lianidou (Greece) : CTC analysis: An overview of CTC isolation, detection and molecular characterisation technologies
• Dave Hoon (USA) : Circulating tumour DNA (ctDNA): Detection systems and clinical significance in cancer
• Massimo Cristofanilli (USA) : Clinical significance of CTC detection and molecular characterisation in breast cancer
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<td>Annette Thomas</td>
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<td>David Grenache</td>
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<td>Alexander Haliassos</td>
<td>Member</td>
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<td>Qing Meng</td>
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C-AQ

• Regular updating of the “Directory of EQA Services” in the C-AQ section of the IFCC website. The site is being maintained by Alexander Haliassos.

• The “EQA Setup Checklist” in the C-AQ section of the IFCC website was reviewed by Annette Thomas in January 2017 and tested at a workshop in South Africa. The existing checklist was deemed suitable by the audience.

• Regular updating of the existing “Resource table for EQA” database.
C-AQ

• Development of eLearning presentations for the IFCC eAcademy:
  ➢ Principles of EQA
  ➢ Principles of IQC
  ➢ Quality Planning
C-AQ

• Development of a joint C-AQ / C-CLM publication on “Developing a Quality System” aimed at developing countries is being prepared.

• Annette Thomas conducted a workshop on 27th to 28th January 2017 in South Africa organised by the Chair of the C-EUBD.

• New work plan – to develop pre and post analytical educational materials.
9.02.07 Evidence-Based Laboratory Medicine (C-EBLM), Chair: Chris Florkowski

Chris Florkowski  Chair  NZ  1st  2015 01 - 2017 12
Annalise Zemlin  Member  ZA  1st  2015 01 - 2017 12
Julien Wils  Member  FR  1st  2015 01 - 2017 12
Karina Rodriguez-Capote  Member  CA  2nd  2017 01 - 2019 12
Nuria Gimenez-Gomez  Member  ES  1st  2017 01 – 2019 12
C-EBLM

• Two modules have been completed by the Chair and are available on the eAcademy website. Further topics are being prepared.

• Guidelines on endocrine topics are being reviewed and have been partially completed. The findings will be collated with a view to publication – Julien Wils / Andrew D-W.

• An EBLM questionnaire has been collated and piloted by Drs K Capote and N Gimenez. The questionnaire has been distributed to global societies through IFCC portals. Feedback has been received and will be presented at IFCC WorldLab in Durban.

• Invited review on POCT and clinical decision making.
C-EBLM

• The committee has organised symposia for COLABIOCLI and IFCC WorldLab:

  COLABIOCLI Congress, Punta del Este, Uruguay, September 2017
  EMD Workshop: Why should we use evidence-based clinical laboratory medicine in practice?

  IFCC WorldLab, Durban, 23rd October 2017
  Evidence-based laboratory medicine: A global perspective
C-EBLM: Publications


C-EBLM: Manuscripts in preparation

• Point of Care Testing (POCT) and Evidence Based Laboratory Medicine (EBLM) – does it leverage any advantage in clinical decision making? Florkowski, Chris, Canterbury Health Laboratories, Don-Wauchope, Andrew, LifeLabs Medical Laboratory Services, Gimenez, Nuria, Hospital Mutua Terrassa, Rodriguez-Capote, Karina, DynaLIFE Medical Labs, Wils, Julien, University Hospital of Rouen Zemlin, A.E., Stellenbosch University, Division of Chemical Pathology.

• Critical Reviews in Laboratory Medicine
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C-CLM

• Development of a monograph on “Project Management Basics for Laboratory Leaders” is in progress, covering the development of related skills in team management, risk management, plus other leadership skills. Scheduled to be finalised by 30th December 2017.

• A guide entitled “A Training Manual on Leadership Basics for Clinical Laboratory Professionals" is planned to be finalised by 30th November 2017.

• A joint C-AQ/C-CLM publication on “Developing Quality Systems in the Clinical Laboratory” aimed at developing countries is being developed.
C-CLM

• Satellite Educational Workshop on "Intelligent Clinical Laboratory Management: Impacts on Quality System Improvement" at the Hilton Durban Hotel, on 22nd October 2017, sponsored by industrial partners as well as the Federation of South African Societies of Pathology (FSASP). A survey activity is planned during this workshop.

• A symposium entitled "Improvement in Clinical Laboratory Services: Approaches to Adding Value" will be held at the IFCC WorldLab, 25th October 2017, Durban, South Africa.
C-CLM

• Leadership Training Module power point presentations were uploaded onto the C-CLM website on 30th January 2017.

• The Chair was an IFCC-Abbott VL at the 2nd Conference of the Romanian Association of Laboratory Medicine (RALM) with international participation in Timișoara, from 10th till 13th May 2017 where she delivered two lectures:
  ➢ Understanding quality management system: Essential strategies to improve laboratory performance
  ➢ Role of proactive measures in clinical laboratory practice
C-CLM: Publication

9.02.10    Distance Learning (C-DL), Chair: Janet Smith

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<td>Loralie Langman</td>
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C-DL

• On-going approval of educational material to be made available on or through the IFCC website

• Continue with the development of the IFCC curriculum, including learning objectives for each topic. These will then be used to formulate the multiple choice questions which will be applied to modules published in the eAcademy.

• Continue to develop the eAcademy in collaboration with the Committee on Internet and e-Learning (C-IeL)
• Joint CPD/EMD symposium at the COLABIOCLI Congress in September 2017 – a collaboration between C-DL and C-IeL.

• The development of the mass spectrometry area of the eAcademy is now complete and includes learning objectives.

• The commissioning of webinar development on topics recommended by National Societies and, where appropriate, identification of relevant presentations from IFCC and National Society conferences for recording to populate the eAcademy continues.

• Liaison with IFCC Office to obtain permission from authors to upload their work onto the IFCC website continues.
C-DL

Number of published modules: 118
Number of modules pending publication: 3
9.02.11 Education in the Use of Biomarkers in Diabetes (C-EUBD),
Chair: Garry John

Garry John  Chair  UK  1st  2016 01 - 2018 12
Emma English  Member  UK  1st  2016 01 - 2018 12
Rajiv Erasmus  Member  ZA  1st  2016 01 - 2018 12
David Sacks  Member  US  1st  2016 01 - 2018 12
Cas Weykamp  Member  NL  1st  2016 01 - 2018 12
C-EUBD

• Finalizing the WHO ‘Compendium of diagnostic tests associated with diabetes’. This will be published as a joint WHO/IFCC document. Hopefully, final agreement on content will be achieved before the end of 2017.

• The results of the joint IFCC, WHO and IDF worldwide questionnaire on use of glucose and HbA1c testing will be finalised and submitted for publication.

• The committee will collaborate in a project to look at the diagnostic cut-points for type 2 diabetes diagnosis using HbA1c. Currently, there is representation from IFCC, IDF and ACB. Further links will be developed with ADA and EASD.
C-EUBD

- A European-wide evaluation of HbA1c EQA programmes in different countries using fresh whole blood and lyophilised samples with the aim of being able to evaluate cross National network performance has been completed successfully. The results were presented in the satellite symposium on diabetes held at the end of the Athens EuroMedLab Congress in June 2017.

- Members of the C-EUBD were part of the Scientific Committee for the satellite symposium on diabetes held at the end of the Athens EuroMedLab Congress in June 2017.
C-EUBD

• Committee members will work with National societies and with manufacturers to deliver educational meetings in countries that would benefit from scientific updates; this year educational meetings were held in South America, India and China and also in South Africa for delegates from Ethiopia and Kenya.
Satellite meeting on Biomarkers for Diabetes, 26\textsuperscript{th} till 27\textsuperscript{th} October 2017, Lanzerac Hotel, Stellenbosch, Cape Town, South Africa

International Scientific Committee
• David Sacks
• Emma English
• Rajiv Erasmus
• Garry John
• Cas Wekcamp
• Philippe Gillery
• Naomi Levitt
9.03.08 Laboratory Errors and Patient Safety (WG-LEPS), Chair: Laura Sciacovelli

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<td>Laura Sciacovelli</td>
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<td>Mario Plebani</td>
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<td>Keila Furtado Veira</td>
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<td>Isabel Garcia del Pino Castro</td>
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<td>Giuseppe Lippi</td>
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<td>Zorica Sumarac</td>
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<td>Jamie West</td>
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WG-LEPS

• Updating of the Model of Quality Indicators (MQI) on the basis of the findings of a Consensus Conference “Harmonisation of quality indicators in Laboratory Medicine: two years later?” held in Padova (Italy) on 26th October 2016;

• A new entering procedure for Quality Indicators data inputting by laboratories in the dedicated website (www.ifcc-mqi.com).
• Selection and appointment of a National Leader in each country who should coordinate and manage the Model of Quality Indicators project. It is expected that the National Leader should (i) encourage the use of MQI; (ii) “personalise” the use of QIs in daily practice according to national practices, requirements and regulations; (iii) cooperate with members of the WG-LEPS providing valuable suggestions for improving the project.

• Involvement of national scientific societies, accreditation bodies and EQA/PT providers of different countries, as a means for disseminating the MQI project and promoting participation of laboratories.
WG-LEPS

• Identification of automated and computerised systems for easy and systematic data collection and recording.
Publications


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<td>Jason Park</td>
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<td>Allen Chan</td>
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<td>Parviz Ahmad-Nehad</td>
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<td>Tae Hyun Hwang</td>
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<td>Thomas Rattei</td>
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<td>Pierre.Jean Lamy</td>
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<td>Christina Lockwood</td>
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WG-CG

• Preparation of standards and regulations for genomic testing (next-generation sequencing), including recommendations for clinical laboratories performing genomic testing and bioinformatic analysis for oncology

• Preparation of standards and terminology specific to circulating nucleic acids (i.e., liquid biopsies, circulating tumour cells and cell free DNA)

• Symposium on Clinical Laboratory Cancer Genomics at the 2016 APFCB Congress in Taiwan
WG-CG

- Symposium entitled “Implementing Cancer Genomics in Low Resource Settings” at the IFCC WorldLab Durban 2017, South Africa:
  - Chair: Larry J. Kricka (US)
  - 1) Genomic medicine: learning how to walk before we run
    - Speaker: Maurizio Ferrari
  - 2) Pharmacogenetic applications in oncology
    - Speaker: R H N van Schaik
  - 3) Advanced laboratory techniques for low resource
    - Speaker: L. Kricka (US)
WG-CG

- At the VIII Baltic Transfusion Medicine Congress and the I Latvian Congress in Laboratory Medicine Congress held in Riga, Latvia, Paolo Fortina delivered “Technologies for Personalised Medicine” and “Clinical Applications of Cancer Molecular Biomarker” talks on 11th and 12th May 2017, respectively.

- A presentation entitled “Personalised Genomic Medicine Approaches in the Study of Cancer” was delivered by Paolo Fortina on 14th June 2017 at the IFCC EMD Symposium “Personalised Medicine” held at the EuroMedLab 2017 in Athens.

- PUBLICATION - Draft manuscript on Genome-wide variation analysis of paediatric malignancies is being finalised.
9.03.10 Harmonisation of Interpretive Comments External Quality Assurance (WG-ICQA); Chair: Samuel Vasikaran

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<td>Sharon Markham Geaghan</td>
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Sub-group for harmonization of reporting of protein electrophoresis and serum free light chains, and quantification of small monoclonal proteins:

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<td>Maria Willrich</td>
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WG-ICQA

“Interpretation and Commenting on Clinical Chemistry Results: An interactive workshop” has been organised for the IFCC WorldLab, Durban.

Chair: Samuel Vasikaran

Speaker 1: Prof Eric Kilpatrick
Title of topic: Case presentation and discussion
Affiliation: Department of Pathology, Sidra Medical and Research Center, Doha, Qatar; Hull York Medical School, UK

Speaker 2: Dr Magdalena Turzyniecka
Title of topic: Case presentation and discussion
Affiliation: University of Kwa-Zulu Natal, Durban, South Africa

Speaker 3: Dr Ken Sikaris
Title of topic: Case presentation and discussion
Affiliation: Melbourne Pathology, Melbourne, Australia
WG-ICQA

• A patient report comment EQA programme in Africa, locally led, will be initiated in Durban during WorldLab.

• MOU with EFLM Working Group on Post-Analytical Phase (WG-POST).

• The working group plans to work with ISO in order to include quality assessment of interpretive commenting in ISO 15189.
9.04.02 Working Group on Flow Cytometry (WG-FC), Chair: Ulrich Sack

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<td>Andrey M. Ivanov</td>
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WG-FC

• Conduct one course annually in Europe sponsored by Beckman Coulter
  ➢ 23\textsuperscript{rd} – 25\textsuperscript{th} February 2012, Leipzig, Germany
  ➢ 11\textsuperscript{th} – 13\textsuperscript{th} April 2013, St Etienne, France
  ➢ 24\textsuperscript{th} – 26\textsuperscript{th} April 2014, Vienna, Austria
  ➢ 27\textsuperscript{th} – 29\textsuperscript{th} October 2015 Athens, Greece
  ➢ 26\textsuperscript{th} – 28\textsuperscript{th} October 2016, St Petersburg, Russia
  ➢ 18\textsuperscript{th} till 22\textsuperscript{nd} September 2017, Munich, Germany

• A winter school was held in St-Etienne/France (6\textsuperscript{th} – 10\textsuperscript{th} March 2017).
WG-FC

• One course each year in Latin America, sponsored by Beckman Coulter
  ➢ 9th-11th March 2016, Cordoba, Argentina
  ➢ 29th – 31st March 2017, Montevideo, Uruguay
WG-FC

• The Chair gave lectures in Bahir Dar, Ethiopia, as an IFCC-Abbott Visiting Lecturer in 2017

• PUBLICATIONS


9.04.03 Developing Quality Competence in Medical Laboratories (DQCML), Chair: Egon Amann

Egon Amann  Chair  UK  1st  2017 01 - 2019 12
Janet Smith  Corresponding Member  UK
Loretta Doan  Corresponding Member  US
DQCML

• An Open Session of the DQCML will be held during the IFCC WorldLab 2017 Congress on 23rd October 2017 to facilitate meeting National Representatives who may wish to seek the support of the Project for future Quality Systems initiatives.

• Received request from Nepal asking for EQA materials and also for educational & logistic help in designing and conducting an EQA programme in Nepal. Nepal should now apply for a grant from DQCML.

• Request received from Mexico for a symposium to be held from 16th-18th March 2018 on the following topics: a) Laboratory Management, b) Reference intervals and c) Traceability and standardisation. Lecturers have still to be confirmed by Mexico.
DQCML – Activities in 2015/2016

• Provided a grant in 2015 for the EQA Zambia Project being led by Dr Renze Bais that has been successfully completed. The EQA programme in Zambia is now being funded by the Ministry of Health.

• Continued support is being offered for the EQA Zambia Project being led by Dr Renze Bais, for example in the provision of logistics and support for an educational seminar in 2016/2017.

• To determine those activities that may be appropriate in supporting the aims of Malawi to develop a programme of Quality Competence following an exploratory visit and report by the IFCC Past-President, Dr Graham Beastall in January 2016. It is hoped that Malawi will submit an application for a DQCML project.
DQCML – Activities in 2016

• By invitation, a one-day symposium was delivered as part of the 6th Scientific Conference of the Association of Clinical Chemists of Nigeria on 13th October 2016 on Sustaining Quality Practice and Process in Developing Countries. It is hoped that the presentation would encourage a further application from the Nigerian Association.
9.04.04 IFCC Mentoring Programme, Chair: Donald Young

Donald Young  Chair  US  1st Term  2015 01 – 2017 12
Aim of IFCC Mentoring Programme

To make available to laboratory directors in developing countries the knowledge and expertise of a selected group of laboratory directors from developed countries.

A pool of Mentors has been created each of whom will provide a one-to-one support to laboratory directors from developing countries (Associates).

Associates are nominated by IFCC member societies and each Associate is matched with the most suitable Mentor.
MENT

• Expand number of Mentors and Associates: There are now 24 Mentors enrolled. There are 45 Associates on file although several do not actively participate. Expansion of both categories continues.

• Recruitment of Spanish speakers as Mentors with the help of Dr Rosa Sierra Amor has been completed.

• Facilitate accessibility of Experts: A proposal was presented to EMD in Athens to merge the Mentoring Programme and Register of Experts into a single Working Group.
MENT

• Dr Graham Beastall will chair this Working Group for Personal Support from January 2018.
IFCC-Abbott Visiting Lecturer Programme (IFCC-Abbott VLP) (Chair: Elizabeth Frank)

• Generously supported by Abbott Diagnostics from 2007 till 2014.

• In 2015 and 2016, IFCC funded the IFCC VLP.

• Through the efforts of Dr Elizabeth Frank and Prof Maurizio Ferrari Abbott Diagnostics is generously supporting the programme again from 2017.
# IFCC-A Abbott VLP

<table>
<thead>
<tr>
<th>Year</th>
<th>No. of applications approved</th>
<th>No. of lecturers approved</th>
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<tr>
<td>2014</td>
<td>14</td>
<td>28</td>
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<tr>
<td>2015</td>
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<td>2016</td>
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<td>2017 to date</td>
<td>11</td>
<td>21</td>
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Aims
To support international exchange of lecturers and facilitate international educational exchanges within IFCC.

Application procedure
Applications are accepted any time of the year but must be submitted at least 4 months prior to the proposed visit.

Selection of speakers
The national society should select the speakers. For assistance please refer to the Speakers Bureau.
IFCC-Abbott VLP

Criteria
Each member society (Full or Affiliate) may apply for up to a maximum of three (3) Visiting Lecturers once a year.
Each Visiting Lecturer should deliver at least two (2) lectures or one (1) lecture and one (1) workshop.

Travel and accommodation
IFCC will fund only economy travel and visa fees of the Visiting Lecturers.
The member society shall provide hotel accommodation, all meals and local transportation.
IFCC-AAbbott VLP

Approval of applications
Approval will be decided by the Chair of the VLP and the EMD EC.

Evaluation
The member society shall complete the survey form and participant evaluation form and provide a brief report to the Chair of the VLP.
The Visiting Lecturer shall complete the survey form and submit a brief report to the Chair of the VLP.
Thank You