ICS9 General Assembly Meeting  

NH Hotel, Nice, France  

Thursday 24 May 2012 – Start Time: 8:30 a.m

1. Welcome/Apologies  
   Apologies: G. d’Onofrio, S McFadden, J L Vives Corrons

2. Attendance List is attached at the end of these meeting minutes.

3. Minutes of Montpelier 2011 Meeting - Approved

4. Published Projects (2011/12)
   a. ICS9 review of the measurement of the erythrocyte sedimentation rate. IJLH, 2011, 33(2), 125-132
   b. ICS9 recommendations for the measurement of HB A₂. IJLH. 2012, 34(1) 1-13
   c. ICS9 recommendations for the measurement of HB F. IJLH. 2012, 34(1) 14-20
   d. ICS9 recommendations for the identification, diagnostic value and quantification of schistocytes. IJLH, 2012, 34(2) 107-116

5. On-going Approved Projects
   a. **Extended Differential Reference Method – B Wood**
      
      Summary: Initial work has been submitted to Cytometry and expected to be accepted soon. Brent questioned on how it relates to vendor programs, such as Hematoflow and Leukoflow. It was discussed that the purpose of project is to set up a reference method with evidence based guidelines, for laboratories to follow when critically evaluating a new analyser.

      Next steps: New proposal to be developed to revisit the cell populations to be defined, instrumentation to be addressed and to include other groups developing the same guidelines

      Timelines: Dependant on funding

   b. **Hemoglobin Standard – B Davies**
      
      Eurotrol questioned whether needed FDA clearance; clarification to be sent to FDA. Within next year the standard will be re-assayed for stability.

   c. **Evaluation of Automated Haematology Analysers – C Briggs**
      
      Summary: This group had been waiting for the Extended Diff reference method project to publish, but due to delays this project will proceed.

      Next steps: Draft to be written before next meeting for comments to the working group and executive.

      Timeline: To be published in 2013
d. Standardisation of Cell Morphology Grading – S McFadden/ G Zini
Gina Zini to co-chair project, Sam will contact Stephanie to send the project data

To date: nomenclature has been agreed upon by working group

Next steps: To re-summarize the status and develop plan to continue

Timeline: to develop plan for next meeting

Presentation from Dr. Seal, University of Manchester / WHO
Dr Seal presented a software that is in development on digital morphology for the purpose of teaching or reference as a free web-based resource. There was discussion on the possibility of adopting the ICSH standard for cell morphology for their database, once it is complete. The executive has asked for confirmation, in writing, who would be the owner of the website.

Questions may be emailed to Dr Seal at: PB-TAG@mmu.ac.uk

e. Validation of Cell Based Assays – B Davis.

Summary: Final review to be done on document and submit to board for review
To be determined the material and the journals for publication

Timeline: To be submitted for review by August 1st, 2012

f. Sample Stability – Dr R Simon

Summary: Poster was presented at ISLH meeting on the morphological observations of 5 cases

Discussion: Whether 5 cases provide enough data for creating a guideline

Decision: The final draft of manuscript to be submitted to IJLH and if accepted for publication, would be published together with an ICSH editorial written by Dr Gina Zini.

g. MPV Standardisation – S Machin.

Summary: There have been challenges to obtain the specific sized beads
Project to look at different lower thresholds of platelet counting and look at microparticles

Next steps: Dr. Y Nagai to make presentation at next meeting
Pricing will be obtained on the specific beads and if project moves forward, a protocol to be developed and testing to be done at sites with different analysers

h. Standardisation of Bone Marrow Immunohistochemistry – E Torlakovic

Summary: Project consists of an international team. A survey was distributed to determine processing steps done by labs. A literature review was performed to see what methods have been specified. The committee met to determine the tissues to be evaluated and the need for confirmation. It was determined there are many variables to standardize. The publication will provide evidence based proposals for testing and the need for standard controls

ICSH Meeting Minutes May 2012
Discussion: Is this work applicable to hematology or pathology and where should it be published to reach the best audience.

Next step: Finalize data by end of year and possibly publish the primary data in a different journal, such as the America Journal of Clinical Pathology Develop guidelines for publication in IJLH

i. **Guidelines for the Automated Counting of Body Fluids – G Bourner.**

Summary: Patterns of Practice was distributed to participants of QMP-LS, CAP and UK-NEQAS for body fluid counts. The data was summarized and presented at ISLH. The recommendation will provide guidelines for validating automated analysers for the numeration cells on body fluid, including the differential.

Next step: Start first draft and distribute to committee for comments by end of year
Have first draft ready for Spring meeting, 2013

j. **Peripheral Blood Film Review and Reporting by Physicians - M. Proytcheva**

Goal: 1. Develop ICSH guidelines for blood film review by a laboratory hematologist
2. Develop guidelines when a clinician can request a review by hematologist
3. What information should be provided by the hematologist to be clinically meaningful

Additional benefit: Assist LIS and middleware vendors to develop new applications that will assist laboratory physicians in reporting

Next steps: Finalize working group
Collect data on current reporting from different countries of working

Timeline: Spring 2013, review current guidelines
Fall 2013, final discussion
January 2014, final publication

6. **Potential New Projects**

a. **Standardisation of Test Performance Based on Clinical Need – Dr. T Yu**

Proposal for project to be presented at next meeting

b. **Standardisation of Haematology Reporting Units – M Brereton/ K Hyde.**

Proposal: 1. Standardization of Hematology reporting units for a full blood count
Working group: Chairperson, M Brereton
Dr. Jou, G Bourner, Y Kawai, T George, K Hyde, K Marsden, Dr Pong, Dr. Heller, Dr. Jin-Yeong Han
2. Standardizing of reference ranges

Reason: To ensure patient safety so that there is no misinterpretation of results with electronic reporting and during mergers of hospitals.
Discussion:
1. Move ahead with the standardization of reporting units
2. Reference ranges would be a difficult area to provide standardization. To be decided at later meeting if has merits to proceed.

Next steps: Present at fall meeting: Collection of current reporting units
Project plan

c. Assessment of automated equipment for the measurement of HGB A2 – A. Stephens

Proposal: Currently there are variations in the quantitative reporting of Hemoglobin A2, which was demonstrated on UK-NEQAS surveys and has the potential of a mis-diagnosis. There is only one WHO standard available which was developed 25 years ago. The purpose of the project would be to develop a way to reduce the variation in reporting, but it is unclear how to proceed.

Next step: To be re-proposed at next meeting or in the spring

d. Guidelines for image analysis based cell counters - N. Culp

Currently, there are 2 types of analyzers available; 1. Perform only the WBC differential, red cell and platelet morphology. 2. Perform CBC counts

Issues: Differential comparison, interferences, sample stability

Proposal: Add this as a section to the project on the Evaluation of Automated Hematology Analyzers.

7. Further proposal of New Projects

a. Flow cytometric diagnosis and monitoring immunophenotypic and genetic features
Chair: Wolfgang Kern
- Need for clarification for use of flow in myeloid malignancies
- Aim: Focus on a few diseases
  Provide guidelines for medical interpretation of reporting

Discussion: Is project too broad and should other factors be included that are used for diagnosis.
Is this something that should be proposed by ICSH

Decision: Project to proceed. Dr Kern to present proposal at fall meeting.

Aim: Provide: 1. Reproducibility
          2. More reliable method to report the true biology of the immature platelet

Provide a method, but not necessarily the material

Discussion: Would be beneficial to have, but question if all vendors would support
            The choice of the chair person should be decision of ICSH

Decision: Companies willing to fund the project to have a scientific representative on the committee
          Sam Machin will contact P Harrison, and discuss way ahead.
          Sam Machin will write a letter to be written to vendors on whether they would support the project

c. Guidelines for critical value reporting – T George

To define what is a critical value and standardize reporting on hematology parameters and morphology

Tracy to present a proposal at the fall meeting.

d. Standardization of G6PD testing – K Hyde

Proposal to be submitted at the next meeting.

8. Relationship with Other Professional Bodies

a. ISLH
   a. Over 250 delegates attended ICSH session
   b. ICSH to have a session at ISLH 2013, ISLH has requested to have information regarding speakers by Sept 2012.
   c. ISLH pleased with association and wants to continue with relationship
   d. There needs to be better communication from ISLH to ICSH regarding programs and meetings.
      Suggestion that it be recommended that Sam be contacted with plans regarding session

b. ISH
   a. Bruce attended meeting on behalf of ICSH. Attendance at presentation was only 10 people due to timing and misconceptions on expectations of meeting.
   b. Suggestion to wait for their contact.

c. CLSI – no updates. Bruce Davis will contact

d. JCTLM – no update

e. ILJLH – submissions from ICSH handled by S Kitchen, 4 publications in the last 13 months

f. WHO Report – please review report and send comments to K Hyde within next 2 weeks.

g. JSLH – Standardization very active, develop reference method for 5 cell differential
          English website available for morphology
          Membership is increasing

ICSH Meeting Minutes May 2012
h. CCS - Partnered with ICSH for Extended Differential project. Will continue to send representation and continue association with ICSH. Bruce will attend meetings on behalf of ICSH

i. CAP - Tracy to be representative on ICSH and Bruce will attend CAP meetings on behalf of ICSH and ICSH to be financially accountable for travel expenses for Bruce. This is still be approved by the CAP board.

j. IFCC - Sam had made contact, but no response. To be confirmed if contact was made to appropriate person,

k. Wallace Coulter Foundation - Foundation under the impression that ISLH is the responsible body for the development of standards. Sam will write to explain the role of ICSH. A proposal for funding to be submitted for the Extended Differential project

l. Others - NCCL National Center for Clinical Laboratories (China)– accepted proposal to form relationship. Contact: Dr. M Peng
<table>
<thead>
<tr>
<th>NAME</th>
<th>AFFILIATION</th>
<th>PHONE</th>
<th>EMAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yoko Tabe</td>
<td>Nintendo Unn. Medicine</td>
<td><a href="mailto:Tabei@nintendo.co.jp">Tabei@nintendo.co.jp</a></td>
<td></td>
</tr>
<tr>
<td>C. Baqas</td>
<td>ICS/UCCL+</td>
<td>+441582.50.2682</td>
<td><a href="mailto:cbaqas@ics.ac.uk">cbaqas@ics.ac.uk</a></td>
</tr>
<tr>
<td>Naomi Culp</td>
<td>ICSI/Trillium DX</td>
<td>+618-6851.3687</td>
<td><a href="mailto:nmcrepl@comcast.net">nmcrepl@comcast.net</a></td>
</tr>
<tr>
<td>Adrian Stephens</td>
<td>UCSF London UK</td>
<td><a href="mailto:Stephens@gmail.com">Stephens@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Enrico Babolino</td>
<td>Beckman Coulter</td>
<td>+345380.5909</td>
<td><a href="mailto:enrico@beckman-coulter.com">enrico@beckman-coulter.com</a></td>
</tr>
<tr>
<td>Jin-Geong Han</td>
<td>Dong-A University, SK</td>
<td>+82-10-452-0984</td>
<td><a href="mailto:jyhan@dau.ac.kr">jyhan@dau.ac.kr</a></td>
</tr>
<tr>
<td>Mauro Faste</td>
<td>HORIBA MEDICAL</td>
<td>+6361219788</td>
<td><a href="mailto:mauro.fo@rohe.com">mauro.fo@rohe.com</a></td>
</tr>
<tr>
<td>Tracy George</td>
<td>Stanford/CAP</td>
<td>650-725-1788</td>
<td><a href="mailto:tgeorge@stanford.edu">tgeorge@stanford.edu</a></td>
</tr>
<tr>
<td>Ziling Huo</td>
<td>Mindray</td>
<td>525-612-3664</td>
<td><a href="mailto:ceelineh@gmail.com">ceelineh@gmail.com</a></td>
</tr>
<tr>
<td>Josee Melegaron</td>
<td>Beckman Coulter</td>
<td><a href="mailto:nelegaron@beckman-coulter.com">nelegaron@beckman-coulter.com</a></td>
<td></td>
</tr>
<tr>
<td>Fernando Chavez</td>
<td>Beckman Coulter</td>
<td>917-350-5155</td>
<td><a href="mailto:frances@yaho.com">frances@yaho.com</a></td>
</tr>
<tr>
<td>SiIke Hellier</td>
<td>Instand</td>
<td>176-389-3732</td>
<td><a href="mailto:siIke@beckman-coulter.com">siIke@beckman-coulter.com</a></td>
</tr>
<tr>
<td>Tee Meng King</td>
<td>NIH/NICHD</td>
<td>617-358-3734</td>
<td><a href="mailto:teemking@nih.gov">teemking@nih.gov</a></td>
</tr>
<tr>
<td>Marco Trtica</td>
<td>MANDEL DC</td>
<td>Tel 612-640-6600</td>
<td><a href="mailto:marcttica@gmail.com">marcttica@gmail.com</a></td>
</tr>
<tr>
<td>Viola Dopsaj</td>
<td>Children's Center for Clinical Trials</td>
<td>176-389-3736</td>
<td><a href="mailto:viola@childrens.gov">viola@childrens.gov</a></td>
</tr>
<tr>
<td>Mingsing Peng</td>
<td>JCTLM/Peoria Children's Center</td>
<td>617-358-3736</td>
<td><a href="mailto:mtpang@jctlm.org">mtpang@jctlm.org</a></td>
</tr>
<tr>
<td>Ting Yu</td>
<td>Abbott Hematology</td>
<td>94-408-4093</td>
<td><a href="mailto:ting.yu@ahc.com">ting.yu@ahc.com</a></td>
</tr>
<tr>
<td>Keith Hyv</td>
<td>UKNIAU</td>
<td>0161 276 3793</td>
<td><a href="mailto:keith.hyv@nhs.uk">keith.hyv@nhs.uk</a></td>
</tr>
<tr>
<td>Michelle Bilson</td>
<td>CMFT</td>
<td>274-345-3855</td>
<td><a href="mailto:michelle.bilson@cmft.nhs.uk">michelle.bilson@cmft.nhs.uk</a></td>
</tr>
<tr>
<td>Steve Kitchen</td>
<td>ISLH</td>
<td>206-288-7117</td>
<td><a href="mailto:steve.kitchen@slh.ahr.nh.gov">steve.kitchen@slh.ahr.nh.gov</a></td>
</tr>
<tr>
<td>Brent Wood</td>
<td>U. of Washington</td>
<td>206-288-7117</td>
<td><a href="mailto:brent.wood@uw.edu">brent.wood@uw.edu</a></td>
</tr>
<tr>
<td>Teri Oldaker</td>
<td>GENPATH</td>
<td>914-687-2666</td>
<td><a href="mailto:toldaker@cox.net">toldaker@cox.net</a></td>
</tr>
<tr>
<td>John Sioufi</td>
<td>RCPA HEMATOLOGY</td>
<td>612-340-3393</td>
<td><a href="mailto:john.siuifi@rampa.com">john.siuifi@rampa.com</a></td>
</tr>
<tr>
<td>Sarah Just</td>
<td>Prince of Wales Hospital</td>
<td>112-234-7222</td>
<td><a href="mailto:sarah.just@pwh.org">sarah.just@pwh.org</a></td>
</tr>
<tr>
<td>Michael Crowther</td>
<td>RCPA ANISHI PATEY</td>
<td>612-340-3393</td>
<td><a href="mailto:michael.crowther@rampa.com">michael.crowther@rampa.com</a></td>
</tr>
<tr>
<td>Elena Tkacukova</td>
<td>UHN/Univ of Toronto</td>
<td>416-340-4932</td>
<td><a href="mailto:elena.tkacukova@uhn.ca">elena.tkacukova@uhn.ca</a></td>
</tr>
<tr>
<td>Anna Merino</td>
<td>St. Joseph's Clinic</td>
<td>34684-41365</td>
<td><a href="mailto:annamarino@clinic.uk">annamarino@clinic.uk</a></td>
</tr>
<tr>
<td>Susan Evans</td>
<td>Beckman Coulter</td>
<td>416414-4345</td>
<td><a href="mailto:susan.evans@beckman.com">susan.evans@beckman.com</a></td>
</tr>
<tr>
<td>Takashi Murikawa</td>
<td>Sysmex Corporation</td>
<td>81-391-963</td>
<td><a href="mailto:murikawa.takashi@sysmex.co.jp">murikawa.takashi@sysmex.co.jp</a></td>
</tr>
<tr>
<td>Hiroshi Kondo</td>
<td>ISLH</td>
<td>416-391-9736</td>
<td><a href="mailto:hikondo@ic.daito.ac.jp">hikondo@ic.daito.ac.jp</a></td>
</tr>
<tr>
<td>Yoko Kawa</td>
<td>ISLH</td>
<td>416-391-9736</td>
<td><a href="mailto:yohko@ic.daito.ac.jp">yohko@ic.daito.ac.jp</a></td>
</tr>
<tr>
<td>Yutaka Naka</td>
<td>Nihon Kobetsu/ISLH</td>
<td>416-391-9736</td>
<td><a href="mailto:yunaka@ic.daito.ac.jp">yunaka@ic.daito.ac.jp</a></td>
</tr>
</tbody>
</table>

Sue Read  Siemens  +4479212  sue.read@siemens.com
Elena Sukhacheva Beckman Coulter  +417.8637.8333  esukhacheva@beckman.com
Ramon Simon  Beckman Coulter  +417.9317.5288  ramonsimon@beckman.com
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sue-Hee Lee</td>
<td>St. George Hospital, Sydney, AU</td>
<td>+61 423 883 112</td>
<td><a href="mailto:sze-hee.lee@sesi.health.nsw.gov.au">sze-hee.lee@sesi.health.nsw.gov.au</a></td>
</tr>
<tr>
<td>Zini Gina</td>
<td>Catholic University, Rome</td>
<td>+39 338 892 5696</td>
<td><a href="mailto:recamh@rm.unica.it">recamh@rm.unica.it</a></td>
</tr>
<tr>
<td>Bruce M. Davis</td>
<td>Fellow Dr, TSLH</td>
<td>1207 653 5247</td>
<td><a href="mailto:brendwood@unimelb.edu.au">brendwood@unimelb.edu.au</a></td>
</tr>
<tr>
<td>Maria Proytcheva</td>
<td>TSLH</td>
<td>520-626-6870</td>
<td><a href="mailto:mproytcheva@pathology.arizona.edu">mproytcheva@pathology.arizona.edu</a></td>
</tr>
</tbody>
</table>