The II International Symposium on Haemostasis and Thrombosis – CLAHT Brazil took place at the Hotel Sheraton, located in Salvador, Bahia, Brazil, October 31st-November 1st, 2014.

The course was organized by International Society on Thrombosis and Haemostasis (ISTH) and Grupo CLAHT Brasil. The course was funded by of the Educational Committee of the International Society of Thrombosis and Hemostasis (ISTH), registration from participants and local institutions.

Except Dr. Alicia Blanco and Dr. Raúl Altman from Argentina, the remaining speakers were from Brazil (see program below). The total number of registered participants were 250.

The course has been a great success. It included half day of dry lab and 1,5 days dedicated to theoretical program of topics on Thrombosis and Haemostasis. There was a good interaction between the speakers and the participants, making the event a chance to learn and improve skills. There were also opportunities to discuss clinical cases. There were two special points of this course: (i) its location in the Northeast region of Brazil, where this type of event is not traditionally undertaken. This was specially highlighted and appraised by the participants and local speakers and (ii) the high frequency of young participants and students, of whom ~30% were below 30.

A total of 77 and 21 participants of the theoretical and practical course filled out the evaluation questionnaire, respectively. This represents 36% and 42% of the total registered participants, respectively. The results are shown below.

Suely Meireles Rezende
Departamento de Clínica Médica
Faculdade de Medicina - Universidade Federal de Minas Gerais
Avenida Alfredo Balena, 190 – 2nd floor - room 243
Belo Horizonte - Minas Gerais – BRAZIL - ZIP 30130-110
Phone/FAX: +55 31 34099746/45
E-mail: srezende@medicina.ufmg.br
Course feedback - theoretical

Number of participants who responded to each level

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>General quality of the course</td>
<td></td>
<td></td>
<td>3</td>
<td>22</td>
<td>50</td>
<td>75</td>
</tr>
<tr>
<td>General quality of presentations</td>
<td></td>
<td></td>
<td>2</td>
<td>27</td>
<td>52</td>
<td>71</td>
</tr>
<tr>
<td>Have you learned anything new?</td>
<td></td>
<td>1</td>
<td>4</td>
<td>14</td>
<td>52</td>
<td>71</td>
</tr>
<tr>
<td>The course was important to your work?</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>23</td>
<td>48</td>
<td>71</td>
</tr>
<tr>
<td>Level of the course</td>
<td></td>
<td></td>
<td>1</td>
<td>23</td>
<td>51</td>
<td>75</td>
</tr>
<tr>
<td>Application of the content</td>
<td></td>
<td>1</td>
<td>9</td>
<td>26</td>
<td>39</td>
<td>75</td>
</tr>
<tr>
<td>How much the course increased your knowledge?</td>
<td>0</td>
<td>0</td>
<td>6</td>
<td>26</td>
<td>43</td>
<td>75</td>
</tr>
</tbody>
</table>

1 is the weakest and 5 is the strongest

100% of responders would recommend the course to others.

100% of participants were Brazilians and most from local region.

Age in years, n (%): < 30 = 29 (37%)  
30-40 = 24 (31%)  
40-50 = 12 (16%)  
>50 = 12 (16%)  
Total = 77

Occupation, n (%): Medical doctor = 46 (65%), of whom 32 were hematologists  
Undergraduate student = 12 (17%)  
Biomedical = 7 (10%)  
Biochemist = 3 (4%)  
Biologist = 1 (1.5%)  
Pharmacist = 1 (1.5%)  
Nurse = 1 (1.5%)  
Total = 71

Suggestions by responders: most of the suggestions came from non-medical participants.  
Below, I transcribe some of them:

- Lack of lab program on the second day of the course  
- Inclusion of discussion of projects’ collaboration between groups  
- Include more discussion of cases
- Allow more time to cases’ discussion
- Include more discussion on correlation lab-clinics
- Lack of a talk on physiopathology of coagulation/hemostasis
- Allow more time to the talks
- Improve location of the hotel, food and accessibility
## Course feedback - practical

Number of participants who responded to each level

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>General quality of the course</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>6</td>
<td>14</td>
<td>20</td>
</tr>
<tr>
<td>General quality of presentations</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>14</td>
<td>20</td>
</tr>
<tr>
<td>Have you learned anything new?</td>
<td>0</td>
<td>1</td>
<td>5</td>
<td>6</td>
<td>9</td>
<td>21</td>
</tr>
<tr>
<td>The course was important to your work?</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>6</td>
<td>14</td>
<td>21</td>
</tr>
<tr>
<td>Level of the course</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>4</td>
<td>16</td>
<td>21</td>
</tr>
<tr>
<td>Application of the content</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>7</td>
<td>11</td>
<td>21</td>
</tr>
<tr>
<td>How much the course increased your knowledge?</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>7</td>
<td>12</td>
<td>21</td>
</tr>
</tbody>
</table>

1 is the weakest and 5 is the strongest

100% of responders would recommend the course to others.

100% of participants were Brazilians and most from local region.

### Age in years, n:

- < 30 = 1
- 30-41 = 4
- 40-51 = 7
- >50 = 5

Total = 17

### Occupation, n (%):

- Medical doctor = 8, of whom 7 were hematologists
- Biomedical = 5
- Biochemist = 5
- Biologist = 1
- Pharmacist = 1

Total = 20

Suggestions by responders: most of the suggestions came from non-medical participants.

Below, I transcribe some of them:

- Lack of thrombophilia as one the topics
- Allow more time to cases’ discussion
- Make material of talks available to participants
Supported by
Education and Outreach Committee
International Society on Thrombosis and Haemostasis (ISTH)

Organized by
International Society on Thrombosis and Haemostasis (ISTH)
Grupo CLAHT Brasil
Institutional backing
Laboratório Clínico-Hospital Israelita Albert Einstein
Centro de Hematologia de São Paulo

ISTH Advisory Members
Yukio Ozaki (Japan)
Claire Mclintock (New Zealand)

Comissão Organizadora ISTH/ISTH Organizing Committee
Alicia Blanco (Argentina)
Suely Rezende (Brasil)
Diego Mezzano (Chile)
Consultor/Adviser
Raúl Altman (Argentina)

Comissão Organizadora Local/ Local Organizing Committee
Dr. João Guerra
Dra. Liliana Borges
Prof. Dr. Francisco Humberto Maffei
Dr. Cyrillo Cavalheiro Filho
Profa. Dra. Joyce Annichino Bizzacchi
Profa. Dra. Suely Rezende
Dra. Paula Vilhaça

Lugar/Venue
Sheraton da Bahia Hotel, Salvador, Bahia, Brasil

Data/Date
31 Outubro-1 Novembro/ 31st October-1st November

Theoretical and Practical Educational Course ISTH – CLAHT
II International Symposium on Haemostasis and Thrombosis – CLAHT Brazil
VIII Symposium on Haemostasis and Thrombosis – GEHT
1. Sexta-feira, 31 de Outubro
2. Friday, October 31st

8:00 – 12:00: Cursos Práticos
Curso I. Aspectos práticos dos exames de coagulação: Dos testes convencionais aos especiais
Dra. Alicia Blanco

Os participantes deste curso terão conhecimento sobre variáveis pré- e pos-analíticas, princípios e técnicas dos testes convencionais da coagulação e dos exames especiais como dosagem de fatores por ensaio coagulométrico e cromogênico, pesquisa de anticoagulante circulante e anticoagulante lúpico. Discussão de casos.

Curso II. Controle de Qualidade no Laboratório de Coagulação
Dra. Marjorie Colombini

O curso tem como principal objetivo abordar os aspectos de maior importância no controle de qualidade interno na rotina laboratorial em coagulação, com destaque para os seguintes temas:
- Validação de equipamentos
- Validação de reagentes e controles
- Verificação de novos lotes de reagentes e controles
- Validação dos valores de normalidade adotados pelo laboratório
- Confecção do pool de plasma normal
- Curva de calibração do TP, cálculo da média geométrica na composição do INR e validação do INR a cada mudança de lote do reagente
- Verificação da sensibilidade do reagente do TTPa utilizado no laboratório para o monitoramento

8:00 – 12:00: Workshops
Course I. Practical aspects of coagulation tests: From conventional to special tests
Dr. Alicia Blanco

Participants in this course will receive initial notions about conventional coagulation tests and special tests such as determination of coagulation factors and inhibitors detection. Particular aspects of lupus anticoagulant detection will be discussed.
Case discussion.

Course II. Quality control on coagulation laboratory
Dr. Marjorie Colombini

The aim of the course is to discuss most important aspects of internal quality control in the routine of coagulation laboratory
- Validation of equipments
- Validation of reagents and controls
- Evaluation of new batches of reagents and controls
- Validation of reference values adopted by the laboratory
- Preparation of a normal plasma pool
- PT Calibration curve; calculation of normal geometric mean for INR and its validation for new batches of reagent
- Evaluation of sensitivity of aPTT reagent used in the laboratory for monitoring of patients under heparin treatment in comparison with anti Xa activity
dos pacientes heparinizados (HNF) comparativamente à atividade anti Xa
- Paralelismo de fator e quando aplicá-lo
- Controle de Qualidade Externo

Curso III. Aspectos Práticos em Tromboelastometria
Dr. João Guerra

Conceitos básicos em tromboelastometria Discussão de casos clínicos com a demonstração prática do uso do equipamento (ROTEM)

12:00 – 13:30 : Almoço – Lunch Break

13:30 – 18:00: Sessão Plenária
13:30-15:05: Interação Clínico-Laboratorial em hemostasia e trombose
Coordenação: Dr. João Guerra
Dra. Alicia Blanco

Dr. Erich de Paula

13:55 – 14:20: O que há de novo no controle laboratorial dos anticoagulantes convencionais e novos anticoagulantes?
Dr. Raúl Altman

14:20 – 14:45: Atualização no Controle laboratorial dos antiagregantes plaquetários na profilaxia e tratamento da doença arterial
Dr. João Guerra
14:45 – 15:05: Discussão

15:05 – 15:25: Intervalo - Break

15:25 – 17:20: Disturbios hemorrágicos adquiridos
Coordenação: Dra. Liliana Borges
Dra. Joyce Annichinno

15:25 – 15:50: Cuidados no preparo pre-operatorio de paciente em uso de anticoagulante e/ou antiagregante
Dra. Fernanda Orsi

15:25 – 15:50: Management of patients under anticoagulation and/or antiplatelet treatment for elective procedures.
Dr. Fernanda Orsi

15:50 – 16:15: Púrpura Trombocitopênica
Imune – opções após a primeira linha
Dra. Liliana Borges

15:50 – 16:15: Immune thrombocytopenic purpura – options after first line therapy
Dr. Liliana Borges

15:50 – 16:40: Hemofilia Adquirida.
Quando suspeitar? Aspectos clínicos, diagnóstico e perspectivas de tratamento.
Dra. Paula Vilhaça

15:50 – 16:40: Acquired hemophilia.
When do you suspect it? Perspective of clinical, diagnostic and treatment aspects.
Dr. Paula Vilhaça

16:40 – 17:05: Manejo do sangramento no paciente com trauma
Dra. Roseny dos Reis Rodrigues

16:40 – 17:05: Management of bleeding in trauma patients
Dr. Roseny dos Reis Rodrigues

17:05 – 17:20: Discussão

17:05 – 17:20: Discussion

17:20-18:00: Casos Clínicos
Dra. Alicia Blanco e Dra. Paula Vilhaça

17:20 – 18:00: Clinical case presentation and discussion
Dr. Alicia Blanco and Dr. Paula Vilhaça

3. 4. Sábado, 1 de Novembro
5. Saturday, November 1st
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair/Coordinador</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-9:40</td>
<td>Trombose e embolia arterial</td>
<td>Dr. Cyrillo Cavalheiro</td>
</tr>
<tr>
<td>8:00 - 8:20</td>
<td>Avaliação propedêutica do paciente jovem com trombose arterial</td>
<td>Dr. Cyrillo Cavalheiro</td>
</tr>
<tr>
<td>8:20 - 8:40</td>
<td>Anticoagulação em Pacientes com FA</td>
<td>Dr. Cyrillo Cavalheiro Filho</td>
</tr>
<tr>
<td>8:40 - 9:00</td>
<td>Novos antiagregantes plaquetarios</td>
<td>Dr. Marianna Andrade</td>
</tr>
<tr>
<td>9:00 - 9:20</td>
<td>Impacto do sangramento em síndrome coronariana aguda</td>
<td>Dr. Liliana Borges</td>
</tr>
<tr>
<td>9:20 - 9:40</td>
<td>Discussão</td>
<td></td>
</tr>
<tr>
<td>9:40-10:00</td>
<td><strong>Intervalo - Break</strong></td>
<td></td>
</tr>
<tr>
<td>10:00 - 12:00</td>
<td>Tromboembolismo Venoso</td>
<td>Dr. Francisco Humberto Maffei</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Fatores de risco para primeiro evento e recorrência de tromboembolismo venoso</td>
<td>Dr. Suely Rezende</td>
</tr>
<tr>
<td>10:20-10:40</td>
<td>Indicações e modalidades de tratamento de longa duração no tromboembolismo venoso</td>
<td>Dr. Suely Rezende</td>
</tr>
<tr>
<td>10:40-11:00</td>
<td>Trombose e câncer</td>
<td>Dr. Elbio D’Amico</td>
</tr>
</tbody>
</table>

**8:00-9:40: Arterial thromboembolic disease**
Chair: Dr. Cyrillo Cavalheiro

**8:00-8:20: Propaedeutic evaluation of young patient with arterial thrombosis**

**8:20-8:40: Anticoagulation in patients with AF**
Dr. Cyrillo Cavalheiro Filho

**8:40-9:00: New oral antiplatelets agents**
Dr. Marianna Andrade

**9:00-9:20: Impact of bleeding in acute coronary syndrome**
Dr. Liliana Borges

**9:20-9:40: Discussion**

**10:00-12:00: Venous Thromboembolism**
Chair: Dr. Francisco Humberto Maffei

**10:00-10:20: Risk factors for first event and recurrence of venous thromboembolism**
Dr. Suely Rezende

**10:20-10:40: Indications and treatment modalities of long-term venous thromboembolism**
Dr. Suely Rezende

**10:40-11:00: Thrombosis and cancer**
Dr. Elbio D’Amico
11:00-11:20: Hemostasia no hepatopata: trombose versus sangramento
Dra. Dayse Lourenço

11:20-11:40: Trombose em sítios raros
Dr. Marcone Lima Sobreiro

11:40-12:00: Discussão

12:00 – 13:30: Almoço – Lunch Break

Heparina de Baixo Peso Molecular (HBPM)
Coordenação: Dr. Francisco Humberto Maffei
Dr. Edison F. de Paiva

Dra. Ana Rocha

13:40-14:00: Ação anti-inflamatória, anti-neoplásica e imuno-moduladora da HBPM. Mito ou realidade?
Dr. Edison F. de Paiva

14:00-14:20: Na era dos NOA, qual o papel da HBPM e controle laboratorial? Quando realizar?
Dr. Eduardo Ramacciotti

14:20-14:40: Discussão

Low Molecular Weight Heparin (LMWH)
Chair: Dr. Francisco Humberto Maffei
Dr. Edison F. de Paiva

Dr. Ana Rocha

13:40 – 14:00: Anti-inflammatory, anti-neoplastic and immunomodulating action of LMWH. Myth or reality?
Dr. Edison F. de Paiva

14:00 – 14:20: In the era of NOAs what is the role of LMWH and its laboratory control? When it has to be performed?
Dr. Eduardo Ramacciotti

14:20 – 14:40: Discussion

Novos anticoagulantes orais (NOA)
Coordenação: Dr. João Guerra
Dra. Liliana Borges

New Oral Anticoagulants (NOA)
Chair: Dr. João Guerra
Dr. Liliana Borges
14:40-15:00: Características e indicações dos NOA
Dr. Francisco Humberto Maffei

15:00-15:20: NOA: Monitorar ou não?
Dr. Raúl Altman

15:20-15:40: Tratamento do TEV agudo na emergência - prós e contras dos NOA no tratamento inicial
Dr. Eduardo Ramacciotti

15:40-16:00: Manejo Peri operatório, Sangramento e Reversão da anticoagulação: o que há de novo
Dra. Joyce Annichinno

15:40-16:00: Acute venous thromboembolism – pros and cons for NOA initial treatment
Dr. Eduardo Ramacciotti

16:00-16:20: Discussão
Dra. Joyce Annichinno

16:20-16:40: Intervalo - Break

16:40 – 17:20: Fibrinolysis Lecture
Chair: Dr. Francisco Humberto Maffei
Dr. Cyrillo Cavalheiro

16:40 – 17:10: Systemic or Catheter Guided Thrombolysis on pulmonary thromboembolism treatment
Dr. Patricia Junqueira

17:10 – 17:20: Discussion

17:20-18:00: Casos Clínicos
Dra. Joyce Annichinno e Dra. Suely Rezende

17:20-18:00: Clinical case presentation and discussion
Dra. Joyce Annichinno e Dra. Suely Rezende