Curso Educacional

International Society on Thrombosis and Haemostasis (ISTH) y Grupo Cooperativo Latinoamericano de Hemostasia y Trombosis (CLAHT)

Octubre 21-22; 2010
Lima, Peru

Financiado por el Educational Committee of the ISTH

Organizado por el Educational Committee of the ISTH y el Comité Educacional del Grupo CLAHT

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ISTH Advisory Members: Uri Seligshon (Israel) Frits Rosendaal (The Netherlands)

Oradores Invitados: Raul Altman (Argentina) Alicia Blanco (Argentina) Diego Mezzano (Chile)
Ricardo Forastiero (Argentina) Patrícia Casais (Argentina)
EDU COURSE IN LIMA: PERU

<table>
<thead>
<tr>
<th>Category</th>
<th>n</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Total Registrations</td>
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<tr>
<td>MD</td>
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<tr>
<td>Biochemists</td>
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<td>Students</td>
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<tr>
<td>Audience</td>
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<td>39 to 49.2%</td>
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<td>Total answers</td>
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<td>Clinical Pathology</td>
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<td>Lives in Lima</td>
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<tr>
<td>Lives out of Lima</td>
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Report of the Laboratory Workshop (Wet-Lab)

Educational Course
LIST OF TOPICS:
Prothrombin Time, PT
Activated Partial Thromboplastin Time, APTT
Thrombin Time, TT
Calibration curves
Mixing tests
Samples: interpretation of the results, discussion about samples and reagents, concluding remarks

1- Participants

There were 30 participants, divided into 6 working’s groups.
Coagulation Method: manual.
All the participants performed all the tests individually.

2- Equipments

All of them provided by CLAHT Perú (Dr. Alberto Yuen Morán)
- Water baths at 37°C: 6
- Digital chronometers: 6
- Automatic pipettes of different volumes (at least 50, 100-200 & 1000ul for each group)
- Glass Kahn’s tubes (2000)
- Plastic tubes (400)
- Racks (12, at least two per group)
- Tips

3- Reagents

Provided by CLAHT Perú (Dr. Saúl Mendoza)
- Thromboplastins of two different ISIs
- APTT’s reagents
- Human Thrombin
- Buffer Owren

4- Additional Material

- Graph paper sheets

5- Workshop Guidelines

Dr. Alicia Blanco and Dr. Ricardo Forastiero prepared a Workshop Guidelines, including the description of all tests procedures.
6- Tests performed

Prothrombin Time
- Calibration Curve, using normal plasma pool (100, 80, 60, 40, 30, 25, 20, 15, 10, 5%) for each reagent-equipment in order to estimate the percentage of activity of plasma samples and controls.
- Testing of four samples, one normal plasma pool, and three plasma’s patient, two under oral anticoagulation (INR 2; INR 4) and the other under NF-heparin
- Expression of the results in percentage of activity and INR
- Mixing tests: each sample showing prolonged PT was mixed with normal pool plasma in order to see if the time was corrected by the addition of normal plasma

APTT
- Testing of four samples, one normal pool plasma, and three plasma patients (treated with oral anticoagulant, treated with NF-heparin and with aFVIII inhibitor or lupus anticoagulant).
- Mixing tests: each sample showing prolonged APTT was mixed with normal pool plasma in order to see if the time was corrected by the addition of normal plasma.

Thrombin Time
- Testing of four samples, one normal pool plasma and three plasma patients (low fibrinogen, NF-Heparin, high FDP)
- Mixing tests: each sample showing prolonged TT was mixed with normal pool plasma in order to see if the time was corrected by the addition of normal plasma.

7- Samples

All of them were collected by Rosario Ticona y Janette (Perú)
- Two different plasma pools obtained from patients taking oral anticoagulants, with INR values in two different ranges: 2, and 4
- One plasma pool obtained from patients under treatment with unfractioned Heparin
- One normal plasma pool
- One plasma obtained from a patient with inhibitor aFVIII
- One plasma obtained from a patient with lupus anticoagulant

8- Controls

- One normal control
- One abnormal control