

**Pre-Congreso Médico Nacional  
Curso Educativo**

**De la International Society on Thrombosis and Haemostasis  
(ISTH) y del  
Grupo Cooperativo Latinoamericano de Hemostasia y  
Thrombosis (CLAHT)**

**14-16 de noviembre de 2008**

**Educational Course on Haemostasis and Thrombosis ISTH-  
CLAHT  
in San Jose, Costa Rica  
November 14-16, 2008**

**Supported by the ISTH Educational Committee of the  
International Society on Thrombosis and Haemostasis**

Organized by the Educational Committee of the ISTH and the  
Comité Educativo y Comité Científico del Grupo CLAHT

**Coordinators:**

Raul Altman (Buenos Aires);  
Rafael Jiménez Bonilla (Costa Rica)  
Norma Bosch (Venezuela)

**ISTH Advisory Members:**

Uri Seligshon (Israel)  
Frits Rosendaal (The Netherlands)

## Invited Speakers

Raul Altman (Argentina)  
Norma Bosch (Venezuela)  
Raul Izaguirre Avila (Mexico)  
Ana Maria Otero (Uruguay)  
Alejandra Scazziota (Argentina)

## Programme / Programa

November 14, 2008:

**Laboratory Workshop and Lab demonstrations**

### Coordinators

**Dr Alejandra Scazziota (Argentina).**

**Dr. Rafael Jimenez (Costa Rica)**

**Dr. Lizbeth Salazar (Costa Rica)**

**Dr. Raul Altman (Argentina)**

**First Part** 7.00 am to 12.30 pm

**Lunch break** 12.30 pm to 2.00 pm

**Second Part** 2.00 pm to 5.00 pm

**7.00–7.10 am Introduction: Dr Rafael Jiménez Bonilla**

**7.10-8.00 am. General aspects of Blood Coagulation. An up-date.**

#### **Pre-analytic steps:**

Importance of blood collection samples. Anticoagulants, how to manage blood, plasma and serum samples.

Sources of errors

#### **Assays of tissue factor pathway (extrinsic pathway) factors.**

Prothrombin time, thromboplastin calibration. Definition of ISI, INR.

Therapeutical range in different situations. Assays of factors II, V, VII, X.

Stypven time.

Sources of errors.

Discussion of results.

### **Assays of intrinsic pathway factors.**

APTT. Assays of factors VIII, IX, XI, XII. Calibration of reagents.

Detection of acquired inhibitors.

Sources of errors

Discussion of results.

### **Last step and Fibrinolysis.**

Thrombin time. Reptilase time. Assays of factor XIII, Fibrinogen

Fibrinolytic system: Whole clot lysis, Euglobulin lysis time, Assay of pdf-PDF, Fibrin plates, t-PA, PAI, D-Dimer. Venous occlusion test.

Sources of errors

Discussion of results.

### **Hereditary inhibitors**

Antithrombin, Protein C, Protein S,  $\alpha$ 2 macroglobulin,

$\alpha$ 1 antitripsina. TFPI.

Sources of errors

Discussion of results.

### **Acquired Inhibitors**

A) antiphospholipid antibodies assay. Lupus inhibitor. Anticardiolipin antibody. Anti-beta2-glycoprotein-1 antibody.

B) Factor VIII inhibitors assay. Bethesda units

Sources of errors

Discussion of results.

### **Platelets**

Bleeding time, Platelet adhesiveness. Light transmission aggregometry.

Sources of errors

Discussion of results.

### **Test for Monitoring Antithrombotic Therapies**

Heparins

Oral Anticoagulants

Antiplatelet Therapy

**The near future**

## LECTURES

**15 de Noviembre de 2008 (November 15, 2008)**

- 8:00-8:30 am      Importancia practica del mecanismo de coagulación  
sanguinea  
Dr. Rafael Jiménez. (Costa Rica)
- 8.30-9.00 am      Desordenes hereditarios de la coagulacion.  
Dra. Norma Bosch. (Venezuela)
- 9.00-9.20 am      Trastornos de la hemostasia en el DENGUE.  
Fisiopatología y tratamiento.  
Dra. Norma Bosch (Venezuela)
- 9:20-9:50 am      Problemas de sangrado en enfermedad hepática y renal.  
Dra. Ana María Otero, (Uruguay)
- 9.50-10.10      Defectos plaquetarios: cualitativos y cuantitativos.  
Dra. Kathia Valverde, (Costa Rica)
- 10:10-10:25 am      Preguntas y Discusión (Q/A)
- 10.25-10.50 am      Café (Coffee break)
- 10:50-11:20 am      Cómo ayuda el laboratorio en el diagnóstico y manejo  
de pacientes con problemas de sangrado.  
Dra. Alejandra Scazziota, Argentina
- 11.20-11.40      La tromboelastografía en el diagnóstico de la patología  
hemorrágica.  
Dra. Norma Bosch (Venezuela)
- 11:40-12:10 am      El coágulo hemostático. Patofisiología del trombo.  
Dr. Raúl Altman, (Argentina)
- 12:10-12:50 pm      Farmacología de las heparinas y la heparina de bajo  
peso molecular.  
Dra. Ana María Otero, (Uruguay)
- 12:50-1:15 pm      Preguntas y Discusión Q/A
- 1.15- 2.30 pm      Almuerzo (Lunch break)

- 2:30-3:00 pm Farmacología de las drogas antiplaquetarias.  
Dr. Raúl Altman, (Argentina)
- 3:00-3:30 pm Los anticoagulantes orales: drogas anti-vitamina K,  
antitrombina o anti-factor Xa oral.  
Dr. Raúl Izaguirre, (México)
- 3:30-4:00 pm Pruebas para controlar la terapéutica antitrombótica. El  
concepto de resistencia.  
Dra. Alejandra Scazziota, (Argentina)  
Dr. Raul Altman, Argentina
- 4:00-4:15 pm Preguntas y Discusión (Q/A)

**16 de noviembre del 2008 (November 16, 2008)**

- 8:30-9:00 am Patofisiología y diagnóstico de la trombosis venosa  
profunda.  
Dr. Raúl Altman, (Argentina)
- 9:00-9:30 am Prevención y tratamiento del tromboembolismo venoso.  
Causas hereditarias.  
Dra. Ana María Otero, (Uruguay)
- 9:30-10:00 am Presentación de casos y de situaciones protrombóticas  
particulares. El síndrome metabólico.  
Dr. Raúl Izaguirre, (México)
- 10.00-10:15 Preguntas y Discusión (Q/A)
- 10:15-10:45 Café
- 10:45-11:15 am Trombosis venosa profunda en el embarazo. ¿Cómo  
manejarla?  
Dra. Ana María Otero, (Uruguay)  
Dr. Raul Altman (Argentina)
- 11:15-11.45 Perdida Fetal El Síndrome Antifosfolipidico  
Dra. Ana Maria Otero. Uruguay

11.45-12.15	Uso y abuso de la heparina en Obstetricia Dr. Raul Altman (Argentina)
12.15-12.30	Preguntas y Discusión (Q/A)
12.30- 2.00	Almuerzo (Lunch break)
2:00-2:30 pm	Terapéutica antitrombótica en infarto de miocardio. Manejo de la enfermedad arterial periférica. Dr. Raúl Izaguirre, (México)
2:30-3:00 pm	De la Atero-inflamación a la Aterotrombosis. Bases para un nuevo concepto terapéutico. Dr. Raúl Altman, (Argentina)
3:00-3:30 pm	Coagulación intravascular diseminada. Dr. Raúl Izaguirre, (México)
3:30-4:00 pm	El accidente vascular cerebral de origen extracraniano: fibrilación atrial, falla cardíaca, embolismo paradójico. Dr. Raúl Altman, (Argentina)
4:00-4:20 pm	Preguntas y Discusión (Q/A)
4:20-4:50 pm	Estados protrombóticos en enfermedades clínicas: diabetes, obesidad, síndrome metabólico, malignidad. Dra. Ana María Otero, (Uruguay)
4.50- 5.10 pm	Preguntas y Discusion (Q/A)
5.10 pm	Palabras de cierre. Closing Remarks Dr. Raúl Altman, en nombre del ISTH Educational Committee y el CLAHT (in the name of the ISTH Educational Committee and the CLAHT).

## ISTH Budget (all prices in U\$S dollars)

SPEAKERS		
Five air travel to Costa Rica	Tourist Class *	5500
Airport taxes	Calculated	300
Hotel Accommodation	4 nights	2,450
Food and Beverage	4.5 days	2,250
Transfer	Airport-hotel-Airport	150
<b>Total budget</b>		<b>10,650</b>
	<b>To be paid by ISTH</b>	<b>10,000</b>
	<b>To be paid locally</b>	<b>650</b>
Speakers Certificates	To be paid locally	-----
Participant Certificates	To be paid locally	-----
Conference rooms (2)	Free	-----
Technical Equipment	To be paid locally	-----
Secretariat	To be paid locally	-----
Programme, Evaluation sheet, etc	To be paid locally	-----
Coffee break	Small registration fee	

### General Remarks

Although according to ISTH rules, for flights over five hours, business class tickets will be offered to Faculties, the cost is 2-4 times more than Tourist class tickets and impossible to be cover.

The form of the Evaluation Sheets is similar although not identical to that used in Educational Symposium ISTH-CLAHT in Buenos Aires and previous joint Courses.

The letter of intent as well as the general outlines of Courses in Latinamerica were already sent to the Co-Chairpersons of the ISTH-Educational Committee.

Demonstration and dry Laboratory is planned for the first day of the Course.

Promotion of the Course will be made between hematologists, cardiologists, internists, phlebologists, biochemists (PhD, Bio-analysts). We encourage having last year's physicians and related students among the audience.

The size of the audience is calculated of 60 persons for the Lab part (first day) and 100 for the second and third days Course.