

# ISTH PARIS 2001





CHILDREN'S MEDICAL CENTER

# HIGHLIGHTS

- SCIENTIFIC STANDARDS COMMITTEE
  - FACTOR VIII AND FACTOR IX
- ED SCREENING FOR TE DISEASE
  - PTP, DD, CUS
- SPRIRAL CT
- NEW AGENTS
- VON WILLEBRAND TYPE I
- NAIT AND DVT IN CHILDREN



# SSC F:VIII AND F:IX

- Abstract OC195 Discrepant one and two stage assays in mild hemophiliacs
  - 25/52 discrepant some in normal range
- TF based whole blood coagulation test
- APTT waveform analysis
- Chromogenic assay



# SCREENING FOR THROMBOEMBOLISM

- CLINICAL PRE-TEST ASSESSMENT
- ULTRASOUND
- D-DIMER



# CLINICAL PRE-TEST ASSESSMENT



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# SCREENING FOR DVT

## CPT AND DD

- Tick, LW (Netherlands) Abstract OC38
  - Non-university Hospitals
  - 811 patients
  - CPT, CUS, D-dimer (DD)
  - CPT low (score=0), CUS negative, 2% had DVT (n=250)
  - CPT not-low, CUS negative had DD
  - 83 DD + required repeated CUS
  - DD (-) no DVT (n=148)



# CPT AND DD

- Bates, SM (Ontario, Canada) Abstract OC39
  - 480 patients, 224 completed
  - PTP (Clinical Pre-test predictor) and D-dimer (DD)
  - PTP= low, moderate or high
  - Group 1: low or moderate PTP
  - 101 of these had DD (-) and no VTE.



# CPT AND DD

- Kraaijenhagen, RA (Netherlands) Abstract OC40
  - CPT, CUS and DD in 1756 patients
  - DD and CUS normal in 828 with six follow-up DVT, 0.7%.
  - Low CPT and negative CUS or DD equally predictive of low complications (1.5 or 1.8%)



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# SPIRAL CT

- Positive predictive value
- Negative predictive value



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# PULMONARY EMBOLUS

## SPIRAL CT

- Van Strijen, MJL (Netherlands) Abstract OC154
  - 627 patients with suspected PE
  - CT done only on patients with (+) scan
  - high probability scan or positive angiogram considered a PE
  - Spiral CT identified correctly 88 of 128 patients with PE, 92 of 109 without sensitivity of 69%
  - Sensitivity of 86% for segmental and 21% for subsegmental PE.



# SPIRAL CT

- Perrier, A Abstract OC155
  - sensitivity 70%, positive predictive 84%, negative 82%
- Anderson, DR
  - CT and leg ultrasound.
  - If both negative none had VTE in 3 months.  
(n=287)



# NEW AGENTS

- THROMBIN INHIBITORS
- PENTASACCARIDES
- VIIa/TISSUE FACTOR INHIBITORS



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# NEW AGENTS

## XIMELAGATRAN

### Abstract 0C44

Randomized, double-blind study of ximelagatran					
vs. warfarin after total knee arthroplasty					
	Ximelagatran		Warfarin		P-value
Frequency of VTE-Intent-to-Treat					
Overall VTE	0.192	53/276	0.257	67/261	0.07
Proximal DVT/PE	0.033	9/274	0.05	13/258	0.316



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# PENTASACCHARIDE

## Org3150/SR90107A

### Abstract OC45

EFFICACY VS LOW MOLECULAR WEIGHT HEPARIN IN HIP REPLACEMENT SURGERY			
	Enaxoperin	Pentasaccharide	P-value
Any DVT	9.00%	4.00%	0.000011
Proximal DVT	2.50%	0.70%	0.0021
Distal DVT only	7.30%	3.30%	0.00015



# PENTASACCHARIDE

## Org3150/SR90107A

### Abstract OC46




# PENTASACCHARIDE

## Org3150/SR90107A

### Abstract OC47




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# FACTOR VIIa/TISSUE FACTOR INHIBITOR rNAPc2


Abstract OC49



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# VON WILLEBRAD DISEASE TYPE 1

- Penetrance of mutation about 60%
- Variable expressivity
- Laboratory evaluation changes in 23% on repeat testing
- 77% of type 1 have blood group type O
- In a small study 5/11 type 1 patients linkage analysis showed no association to vW gene
- Multi center European study



# NAIT

- BRITISH EXPERIENCE
  - 3 early deaths before 26w FBS
  - 3 deaths associated with FBS
  - 4 premature births due to FBS
- AMERICAN EXPERIENCE
  - Extremely high risk
  - High risk
  - Moderate to intermediat risk



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