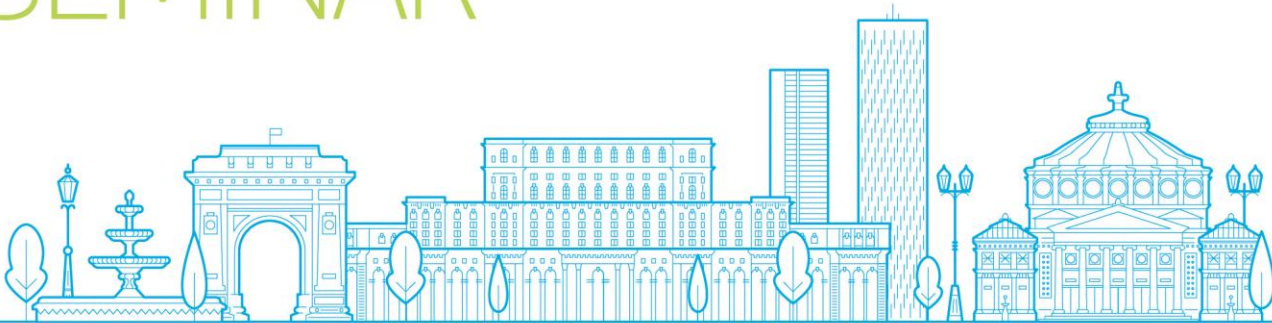


11th HEMOSTASIS SEMINAR

1-2 OCTOBER 2019

Ramada Plaza by
Wyndham Bucharest



aid-hem-seminar2019.werfen-eemeai.com

Web-App



11th
HEMOSTASIS
SEMINAR

Werfen: A History of Partnership in Hemostasis
E. El Bouchi

Blood Components



Blood
Circulation
1628

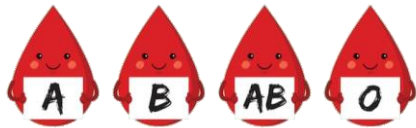
Separate
RBC from
Plasma
1930



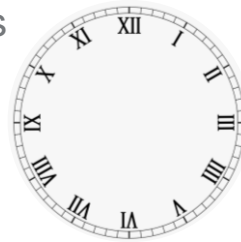
Cryo-
precipitate
1960s



Blood
Groups
1901



Coagulation
Factors
1954



Coagulation
Cascade
1964

Bleeding Disorders

«Royal
Disease»
Queen
Victoria
1837



Life
Expectancy
Severe
Hemophilia
<20y
1960

Desmopressin
1977

Von
Willebrand
Disease
Finland
1926



Factor
Concentrate
1970s



First
Recombinant
Factor
approved
1992

Thrombophilia

Germany
Rudolph
Virchow
1856



US
Protein C Def
1981

APS
1980s

Norway
Olav Egeberg
Antithrombin
Deficiency
1965

US
Protein S Def
1984

FV Leiden
1994

Oral Anticoagulants

Bleeding
Cows
Mouldy
Sweet
Clover



Rat Poison
Warfarin
1941



Dwight
Eisenhower
1955

Dicoumarol
1939

Clinical Use
Coumadin
1954

PT-INR
1980s

2008: DOACs

Tests

Prothrombin
Time
«Quick»
1935

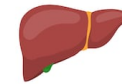
aPTT
1953

ACT and
Heparin
1975

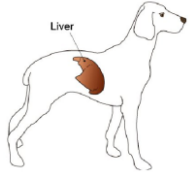
Viscoelastic
Testing
1948

ACT
1966

VT and
Transfusion
Algorithms
1980/90s



Heparin and ECC



Heparin
discovered
1916

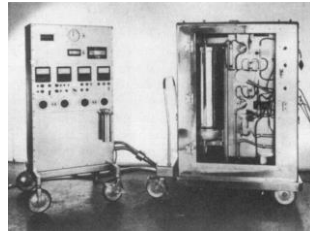


Coronary
Artery
Bypass Graft
1964

Extra
Corporeal
Membrane
Oxygenation
1972



1953
1° Cardiac
Surgery
Heart Lung
Machine



Heart
Transplant
1967

LMWH
1990s

Antiaggregation



Meadow Sweet
Spiraea
ulmaria
2000 BC

Acetyl
salicylic
Acid
Bayer
1897

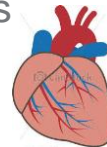


1° trials in
Neuro
Vascular
Diseases
1978



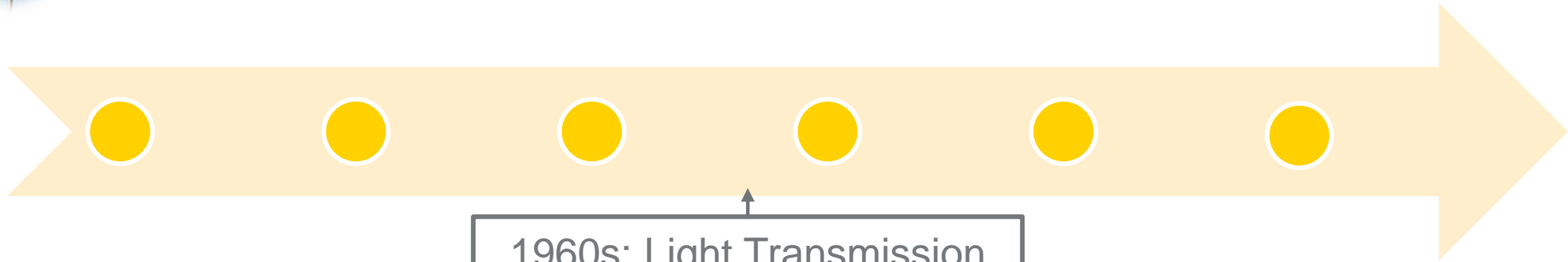
German
Johann
Buchner
Salicin
1828

1° trials in
Cardio
Vascular
Diseases
1974

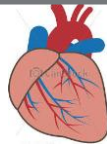


Clopidogrel
1997
Prasugrel
2009

Aggregometers



1960s: Light Transmission
Aggregometry with Agonists



General screening

Anticoagulant testing

Heparin-Induced Thrombocytopenia

VTE exclusion (with PTP Score)

Disseminated Intravascular Coagulation

Thrombophilia investigation

Antiphospholipid Syndrome

Hemophilia and VWD

Fibrinolytic disorders

Identification of coagulopathies

Anticoagulant testing

Antiplatelet therapy management

History of 1st

HIT, VWF CB and ADAMTS13 Act

Liquid PT

Coagulation Workcell

Fully Automated APS Solution

D-Dimer with VTE Exclusion Claims

True Instrument Family Platform

Automated D-Dimer (1988)

Automated Coagulometer (1985)



HemoCELL
SPECIALIZED LAB AUTOMATION

Laboratory Portfolio of Tests

General Screening

- ✓ PT
- ✓ APTT
- ✓ Fib-C/QFA
- ✓ Thrombin Time

Thrombophilia

- ✓ Antithrombin
- ✓ Protein C
- ✓ ProClot
- ✓ Free Protein S
- ✓ PS Activity
- ✓ APC-R V
- ✓ Homocysteine

UF/LMW Heparin

- ✓ Anti-Xa (1 stage)

DOACs

- ✓ DTI: Dabigatran
- ✓ Anti-Xa: Rivaroxaban
- ✓ Anti-Xa: Apixaban

D-Dimer

- ✓ D-Dimer HS 500
- ✓ D-Dimer 500
- ✓ D-Dimer HS
- ✓ D-Dimer

Factors

- ✓ Intrinsic Factors
- ✓ Extrinsic Factors
- ✓ FXIII Antigen

Fibrinolysis

- ✓ Plasminogen
- ✓ Plasmin Inhibitor
- ✓ FDP



HIT

- ✓ HIT Ab (PF4-H)
- ✓ HIT Ab (IgG)

ADAMTS13

- ✓ ADAMTS13 Activity



VWD

- ✓ vWF: Ag
- ✓ vWF Activity
- ✓ vWF:Rco
- ✓ vWF: CB

Lupus Anticoagulants

- ✓ dRVVT Screen/Confirm
- ✓ SCT Screen/Confirm

Antiphospholipid Antibodies

- ✓ aCL IgG
- ✓ aCL IgM
- ✓ B2GPI IgG
- ✓ B2GPI IgM
- ✓ B2GPI Domain 1

Chemiluminescence Assay
Available as CL or Latex

Hemostasis Management in Point-of-Care Settings



Viscoelastic testing for the rapid evaluation of coagulopathies to optimize patient treatment decisions in major surgeries and traumatic bleeding

Hemo**chron**[®]



ACT testing for anticoagulant dose optimization during cardiovascular procedures and extracorporeal life support

Verify**Now**[®]



Platelet function testing for individualized antiplatelet therapy management, pre-and post-cardiovascular and neurointerventional procedures

Cardiac Patient

Post Partum

Neuro Vascular

Pregnancy

Surgery

Extra Corporeal
Circulation

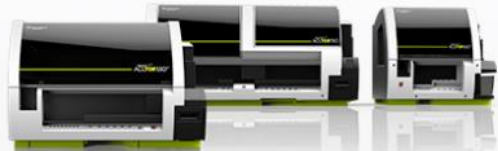
Transplant

Coagulopathies



LABORATORY TESTING

ACLTOP
Family



HemosIL
ASSAYS



HEMOHUB
INTELLIGENT DATA MANAGER



WHOLE BLOOD TESTING

VerifyNow[®]
System



ROTEM



Hemochron[®]
SIGNATURE ELITE



General screening

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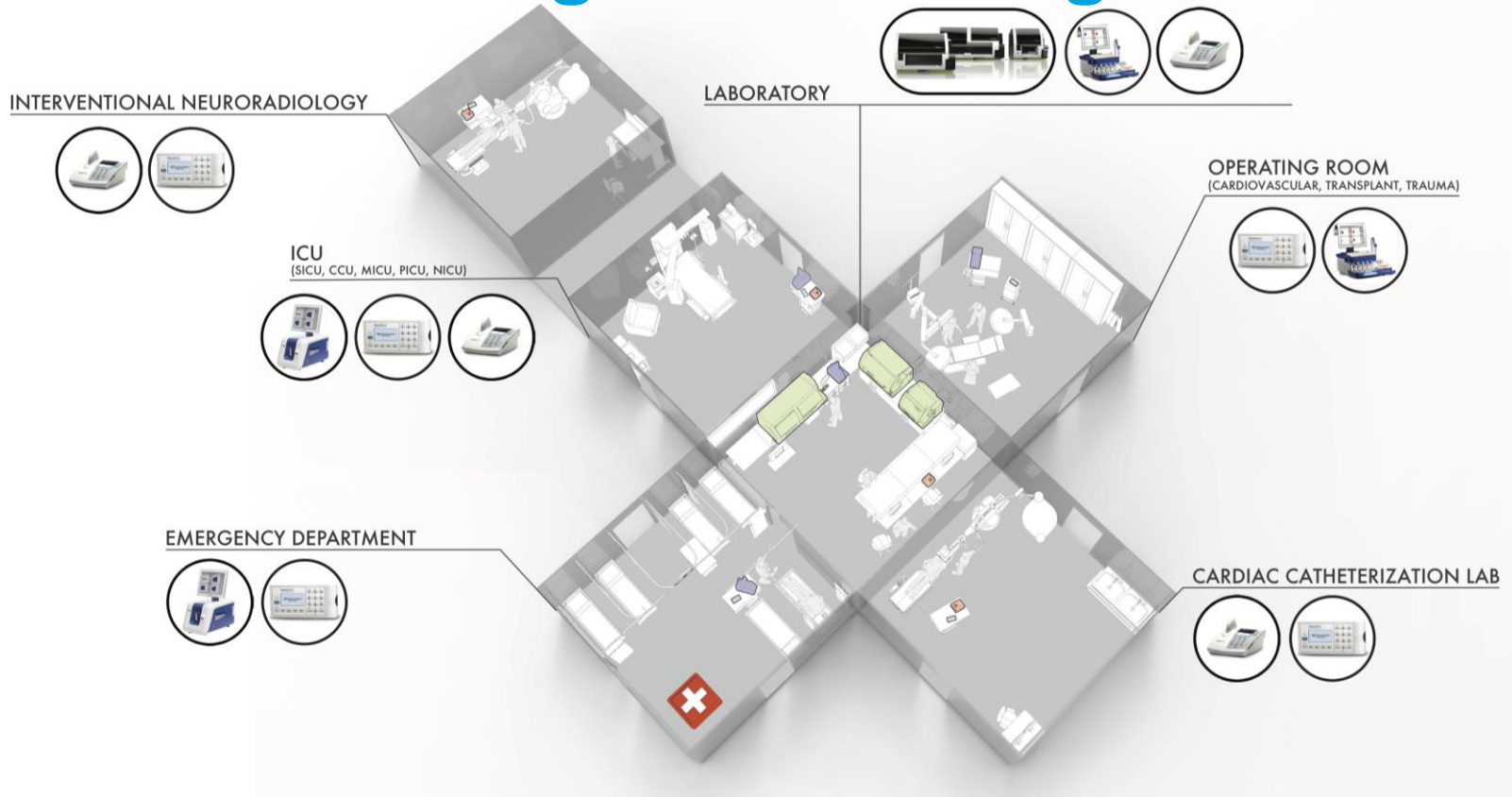
Fibrinolytic disorders

Identification of coagulopathies

Anticoagulant testing

Antiplatelet therapy management

Hemostasis Diagnostic Management



Partnership outside the hospital

Advanced Hemostasis Seminars

IL webinars

Sponsored Webinars

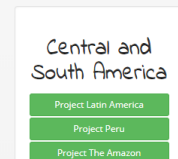
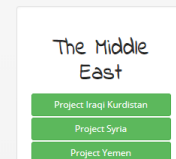
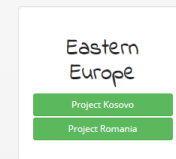
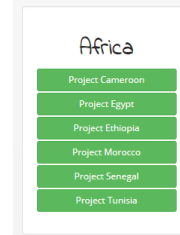
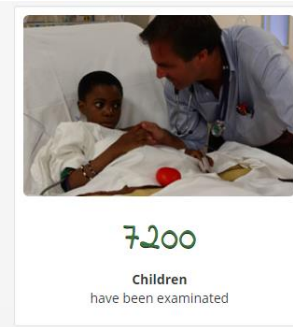
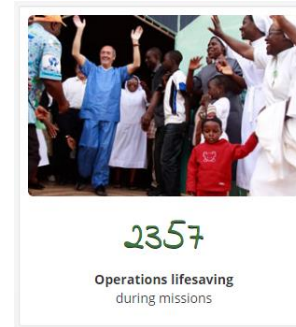
Studies

Workshops

Bambini Cardiopatici nel Mondo



- <http://www.bambinicardiopatici.it/en/>
- Italy based NGO Hospital Group San Donato
- Every month the Association organizes hope missions in different Countries
- In the 5 days of the mission they diagnose around 250 children, about a dozen of whom they operate and the others they treat
- Werfen EEMEI will match the donations made by Employees and Partners to fund **2 upcoming Missions**



Thank You!