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# The role of heparin in pregnancy

**Salvatore Andrea Mastrolì**



Universita' degli Studi di Bari "Aldo Moro"  
Azienda Ospedaliero-Universitaria Policlinico di Bari  
Department of Obstetrics and Gynecology  
Bari - Italy



International Fellowship Program 2013-2015  
Soroka University Medical Center  
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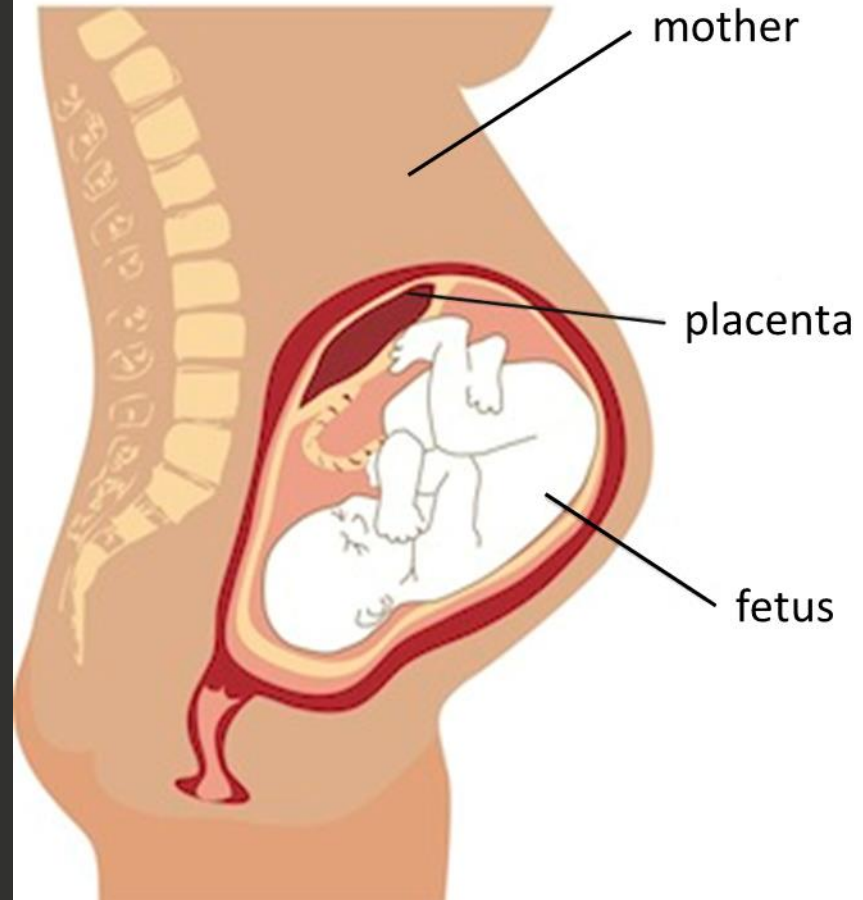


## Research Interest

1. Mechanisms of disease in the Great Obstetrical Syndromes
2. The use of heparins in the primary and secondary prevention of the Great Obstetrical Syndromes
3. Evaluation of the pathways on which heparins exercise their activity
4. Study of hemostatic changes in normal pregnancy and pregnancy complications



Characters involved  
in hemostasis and  
coagulation during  
pregnancy





# Maternal changes in the coagulation system during normal pregnancy

## Changes in procoagulant molecules

2 to 3-fold increase in fibrinogen concentrations

Increase in factors VII, VIII, IX, X, and XII, all of which peak at term

vWF increase up to 400% by term

Labor at term increases significantly the maternal plasma immunoreactive TF concentration in comparison to the non-pregnant state

Increased thrombin generation, as determined by the elevation of maternal concentrations of fibrinopeptide A, prothrombin fragments (PF) 1 and 2, and thrombin-antithrombin (TAT) III complexes

## Changes in anticoagulant molecules

Free protein S concentration declines significantly (up to 55%) during pregnancy (Increase resistance to activated protein C)

The concentrations of PAI-1 increase by 3 to 4-folds during pregnancy while plasma PAI-2 values, negligible before pregnancy, reaches concentrations of 160 mg/L at delivery

Normal pregnancy is characterized by an increased plasma concentration of protein Z, probably as a compensation for the increase of factor X concentration.



# Maternal changes in the coagulation system during normal pregnancy

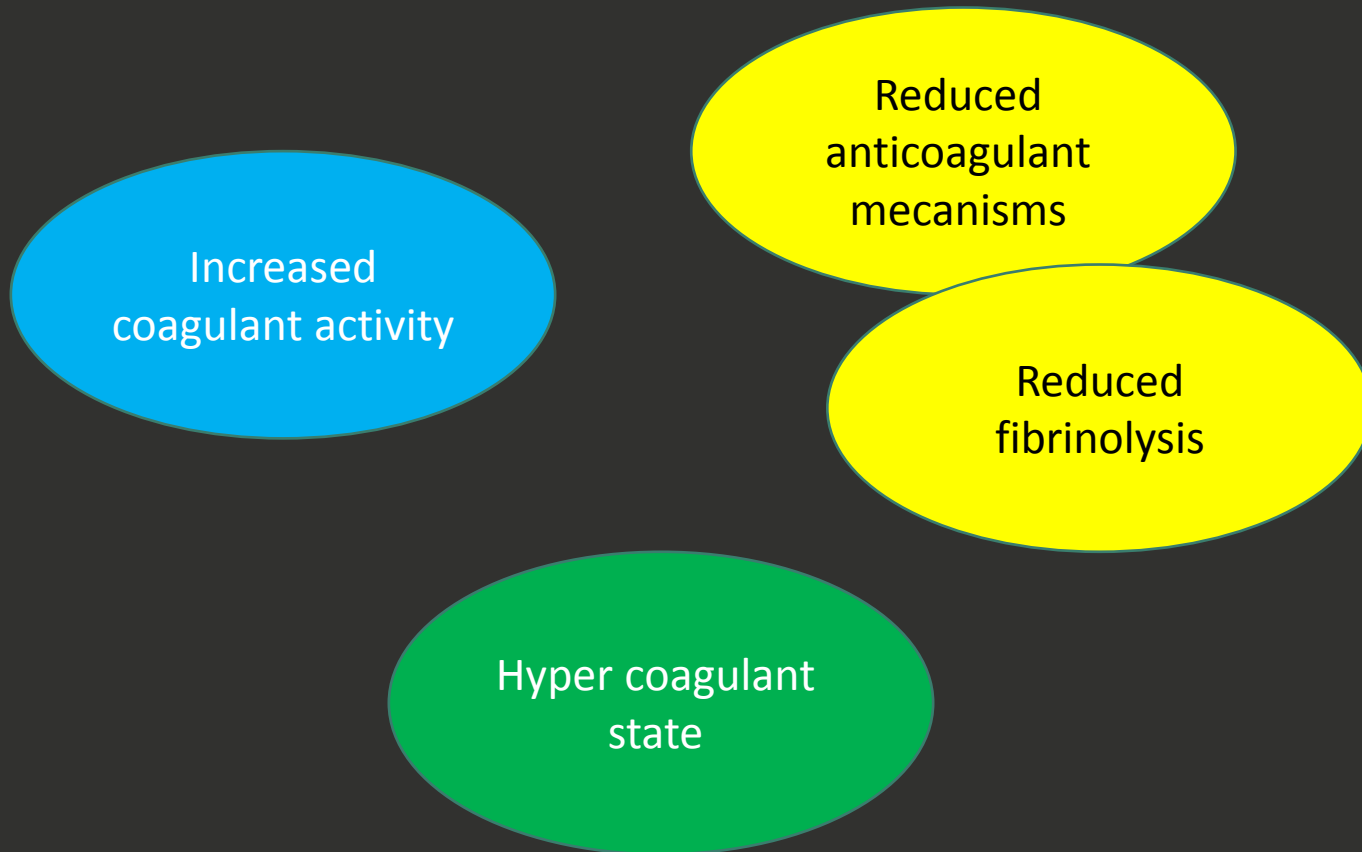
Increased  
coagulant activity

Reduced  
anticoagulant  
mechanisms

Reduced  
fibrinolysis

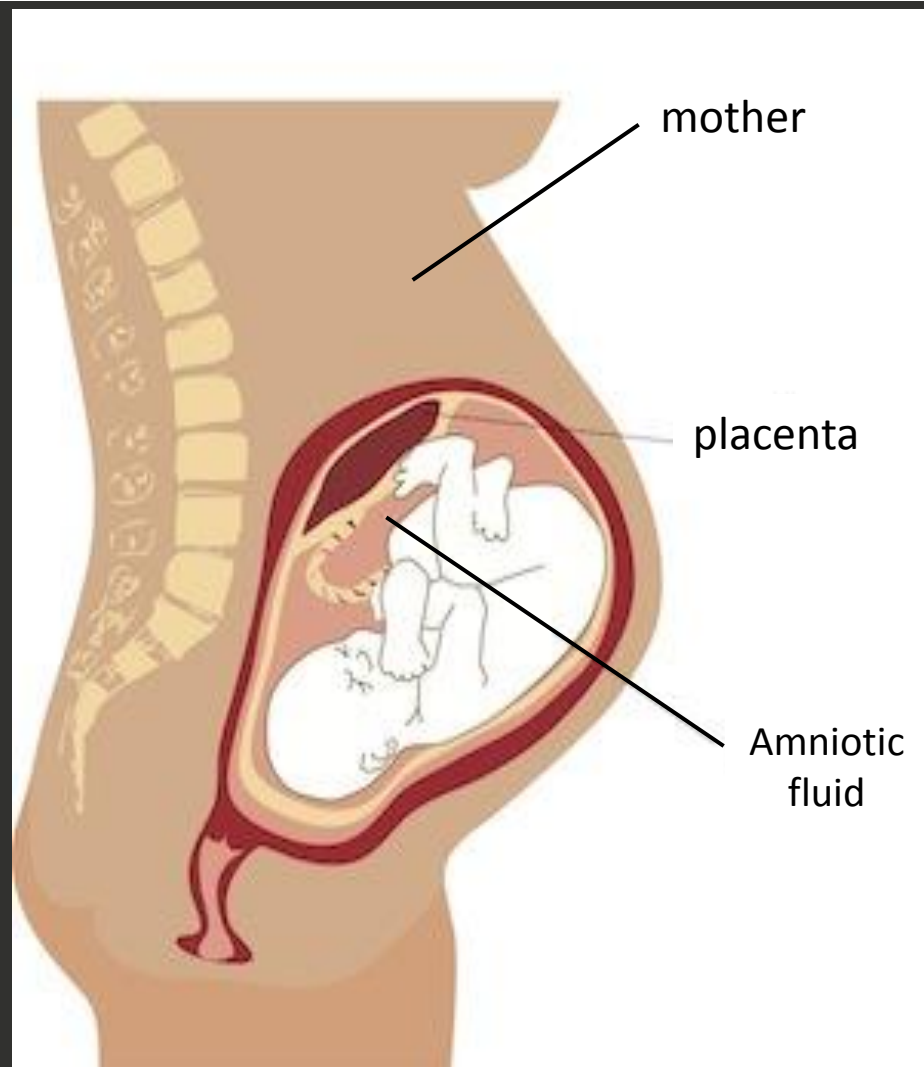


## Maternal changes in the coagulation system during normal pregnancy





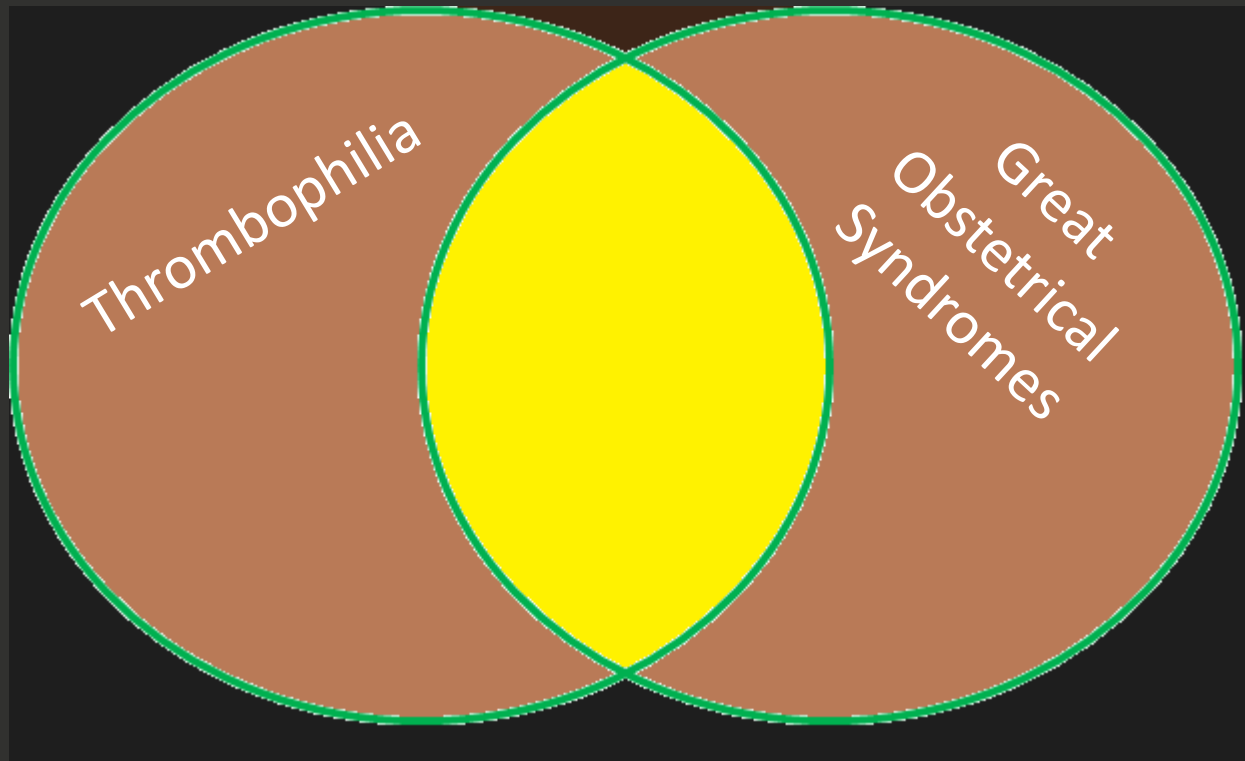
## Changes in the hemostatic system associated with obstetrical complications





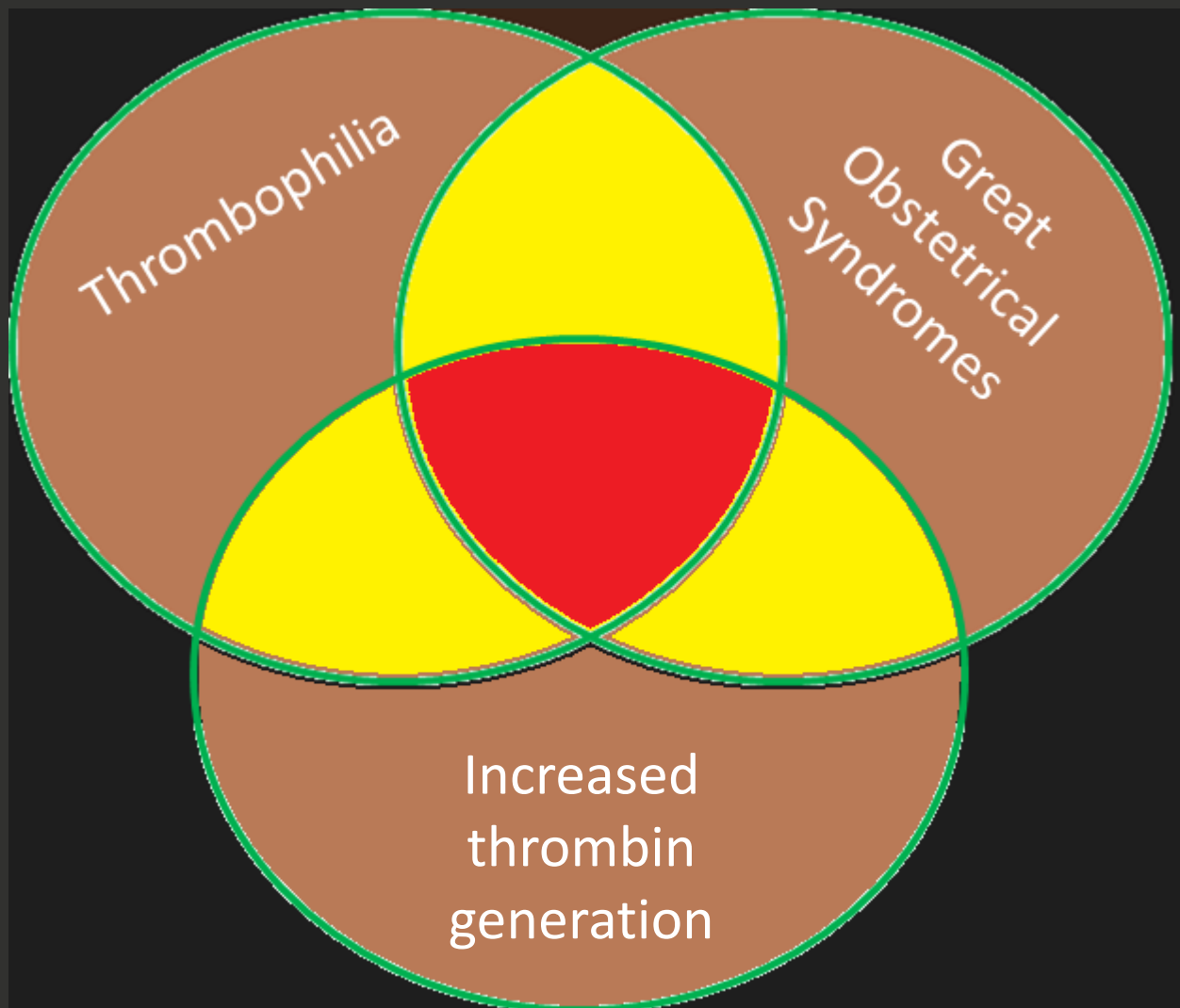


## Literature approach to the prevention of pregnancy complications





## pregnancy complications



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