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Mortality.

 Haematological Abnormalities Like Thrombocytopenia And Decrease In Some Plasma Clotting Factors May Develop In Preeclamptic Women.

This study was undertaken to compare coagulation parameters between normotensives and pre-eclamptic patients

KEYWORDS : Pre-Eclampsia, Platelet Count, PT & APTT

Introduction

Hypertension Affecting 7-15% Of All Pregnancies Remains A Leading Cause Of Maternal & Perinatal Morbidity And Mortality.¹²

Preeclampsia Is An Idiopathic Multisystem Disorder Specific To Human Pregnancy And The Puerperium.³

Hematological Abnormalities Such As Thrombocytopenia And Decrease In Some Plasma Clotting Factors May Develop In PreeclampticWomen.³

Earlier It Was Stated That Only Serial Measurements Of Platelet Count Was Adequate For Intrapartum Screening.⁴

Later Combination Of(1)Platelet Count And Aptt⁵, (2)Platelet Count And Liver Function Tests⁶, (3)Platelet Count And Lactate Dehydrogenase⁷, (4) Platelet Count And Antithrombin ⁸Were Suggested For Early Detection And Screening Of The Patients With Preeclampsia.

Aims & Objectives Of The Study:

To Compare Coagulation Parameters Between Normotensives And Pre-Eclamptic Patients.

Materials & Methods:

Govt Maternity Hospital ,Obg Dept, Hyderabad. Written Informed Consent From All Participants.

Study Group -30 Patients Of Preeclampsia Aged 20-35 Years, Free From Any Other Complication Of Pregnancy. **Control Group** – Age Matched 30 Normotensive Pregnant Females.

Exclusion Criteria:

1. Age < 20 Years & > 35 Years

2. Previous History Of Hypertension, Dm, Renal Disease, Thyroid Disorder

3. Anaemia, Coagulopathies

4. Taking Any Medications Except For Vitamins & Iron .

Haematological Parameters:

- 1. Platelet Count-Automated Haematology Analyzer.
- 2. ProthrombinTime(Pt) And

3. Activated Partial Thromboplastin Time(Aptt) –Automated Coagulometer.

Statistical Analysis

Unpaired "t" Test Was Applied.

Results

Table 1:Comparison Of Coagulation Profile Between Normotensive And Preeclamptic Patients

Mean Values	Control (Normotensi ves)	Case (Preeclamp sia)	P Value	Significanc e
Platelet Count- Lakhs/Cumm	2.31	1.51	<0.0001	Extremely Significant
Pt-Seconds	12.4	12.63	0.085	Not Significant
Aptt-Seconds	26.76	27.32	0.34	Not Significant

• Decrease In Platelet Count Was Statistically Significant.

Pt And Aptt Showed An Increase Which Was Not Statistically Significant.



Discussion

- Thrombocytopenia Is Directly Proportional To The Severity Of Pih.
- The Thrombocytopenia Observed Is Presumed To Be Due To,
- Decreased Platelet Life Span
- Increased Platelet Consumption
- Decreased Prostacycline Synthesis
- Immunological Mechanisms
- Platelet Count Below 1 Lakh/MI Are Early Predictors Of Increasing Risk Of Dic And Hellp Syndrome, Suggesting Prompt Management.
- Platelet Nadir Best Predictor Of Maternal Mortality.
- Raised Pt And Aptt Are Fairly Good Indicators Of Severe
 Preeclampsia Necessitating Aggressive Treatment.

Conclusion

 Evaluation Of Platelet Count, Pt And Aptt Is Mandatory In Every Pre-Eclamptic Pregnant Patient To Reduce Maternal Morbidity & Mortality.

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