30	ournal or p OR	IGINAL RESEARCH PAPER	Gynecology
Indian	A RE AND ARIPET	TROSPECTIVE ANALYSIS ON RISK FACTORS CLINICAL OUTCOME OF SEVERE PLACENTAL UPTION	KEY WORDS: ABRUPTION, RETROPLACENTAL CLOTS, MATERNAL AND PERINATAL OUTCOME
Dr.C.Sumathi Professor, Department Of Obstetrics and Gynaecology, Govt RSRM Lying Hospital, Chennai-13, Tamil Nadu.			
Dr.	M.Sowmya*	POST GRADUATE II YEAR POSTGRADUATE M.S.OG Royapuram, Chennai- 13, Tamil Nadu.	, Govt. RSRM Lying In Hospital,
ABSTRACT	The aim of our study was to determine the various risk factors and fetomaternal outcome in women suffered from placental abruption in our institution - Govt RSRM Lying in Hospital. To define severe placental abruption and to compare serious maternal morbidity profiles of such cases with mild cases of abruption. To determine the need for adequate transfusion, identify complications at the earliest and treat accordingly to reduce maternal morbidity. This is a retrospective study by analysing the cases of abruptio placenta in Government RSRM Lying In Hospital from January 2017 to September 2017. Inclusion criteria includes women delivering with all grades of placental abruption in our institution. For these patients statistical analysis and		

INTRODUCTION:

tabulations are made.

Placental abruption is the most common cause of antepartum haemorrhage and is defined as premature separation of normally implanted placenta after 20 weeks of gestation and prior to the birth of the fetus. Abruptio placenta is associated with poor maternal and fetal outcome being determined by severity of placental abruption, gestational age and underlying risk factors..1 The detached portion of placenta is unable to exchange gases and nutrients when the remaining fetoplacental unit is unable to compensate for this loss of function, the fetus is compromised. The incidence appears to be increasing probably due to increase in prevalence of the risk factors for the disorder. Placental abruption is due to rupture of uterine spiral artery. Bleeding into deciduas leads to separation of placenta. Hematoma formation further separates the placenta from the uterine wall causing compromise of the blood supply to the fetus. The types are-A-Revealed-blood tracks between the membranes and escapes through the vagina and cervix. B-blood collects behind the placenta with no evidence of vaginal bleeding C-mixed type. It is a serious obstetric condition that increases maternal and neonatal morbidity and mortality. Abruption occurs in 0.4-1% of pregnancies. Obstetric haemorrhage accounts for 1/3rd of maternal death. Perinatal mortality is high with abruption due to its strong association with preterm. Primary cause of abruption is not known.

The existing clinical criteria of severity depends on at least one of the following events: maternal complications like DIC/ HELLP, hypovolemic shock, blood transfusion, renal failure or death and fetal complications like fetal distress, IUGR or fetal death. The main causes include Gestational hypertensive disease, advanced maternal age, increasing parity, multiple gestation, polyhydram nios, PROM/ Chorioamniotis, trauma/ thrombophilias, smoking, cocaine use.

MATERIALS & METHOD:

This is a hospital based retrospective study by analysing the cases of abruptio placenta in Government RSRM Lying In Hospital from January 2017 to September 2017. Inclusion criteria includes women delivering with all grades of placental abruption in our institution. All other causes of APH like placenta previa and other extraplacental causes were excluded.

The aim of our study was to determine the various risk factors and fetomaternal outcome in women suffered from placental abruption in our institution - Govt RSRM Lying in Hospital. To define severe placental abruption and to compare serious maternal morbidity profiles of such cases with mild cases of abruption. To determine the need for adequate transfusion, identify complications at the earliest and treat accordingly to reduce maternal morbidity.

All study patients underwent a complete obstetrical examination and clinical workup including history, general physical examination and abdominal and pelvic examination. Detailed obstetric history was obtained and maternal high- risk factors like PIH, GDM, polyhydramnios was noted. As 95% patients were admitted as emergencies, placental abruption was suspected depending on clinical features of vaginal bleeding, uterine tenderness, hypertonic uterus and diagnosis was confirmed by retroplacental clots. After initial resuscitation mode of delivery was decided depending upon state of mother and fetus. Relevant investigations such as lab tests and imaging were performed. Fetal well-being was assessed with ultrasonography and cardiotocography. Diagnosis was confirmed by the presence of retroplacental clots which was used to estimate the amount of bleeding and severity of abruption. Patients were managed according to the fetal and maternal conditions. All information's were gathered and results were analysed. Maternal complications studied were PPH, DIC, ARF, shock, pulmonary edema and infections. Fetal outcome in the form of perinatal mortality (still births and neonatal deaths), prematurity and admission to the neonatal care unit were studied. For these patients statistical analysis and tabulations are made.

RESULTS:

TOTAL DELIVERIES	7799
TOTAL ABRUPTION CASES	43
SEVERE ABRUPTION	30
MILD ABRUPTION	13
TOTAL INCIDENCE	0.55%

COMPARISION OF VARIABLES BETWEEN MAJOR AND MINOR ABRUPTION:

	MAJOR	MINOR			
	ABRUPTION	ABRUPTION			
	30 cases (69.76%)	13 cases (30.23%)			
AGE DISTRIBUTION					
<20 YEARS	1 (3.3%)	1 (7.69%)			
20-25 YEARS	11 (36.67%)	6 (46.15%)			
25-30 YEARS	14 (46.67%)	5 (38.46%)			
>30 YEARS	4 (13.3%)	1(7.69%)			
PARITY					
PRIMI	5 (16.67%)	3 (23.07%)			
MULTI	25 (83.33%)	10 (76.93%)			
FETAL OUTCOME					
LIVE BIRTH	16 (53.33%)	13 (100%)			
STILL BORN	3 (10%)	-			
IUD	11 (36.67%)	-			

RISK FACTORS:

PARIPEX - INDIAN JOURNAL OF RESEARCH



FIG 1: RETROPLACENTAL **FIG 2: COUVELAIRE UTERUS** CLOTS



MATERNAL COMPLICATIONS:

VENTILATORY SUPPORT	• 2
NON OLIGURIC RENAL FAILURE	• 3
DIC	• 1
HELLP SYNDROME	• 1
HBeAg +ve/ CHORIOAMNIOTIS	• 1
OLIGURIC AKI \rightarrow RRT \rightarrow DEATH	• 1

CONCLUSION:

Abruptio placenta is associated with poor maternal and fetal outcome. Severe abruption was associated with a distinctively higher morbidity risk profile compared with mild abruption. Regular antenatal checkup early diagnosis & identification of risk factors would prevent the maternal and perinatal morbidity and mortality. Team efforts by obstetricians, intensivists and neonatologist is required for better maternal and fetal outcome

REFERENCES

- Konje JC, Taylor DJ. Bleeding in later pregnancy. In: James DK, Steer PJ, Weiner CP, Gonik B editors. High risk pregnancy 3rd ed. Philadelphia: Pennsylvania; 2006. 1. 1266-71
- 2. Pitaphrom A, Sukcharoen N. Pregnancy outcomes in placental abruption. J Med Oncolassoc Thai, 2006; 1572-8.
- З. Ananth CV, Lavery JA, Vintzileos AM. Severe Placental Abruption: Clinical definition and associations with maternal complications. Am J Obstet Gynaecol. 2016:214:272.e1-9
- 4. Kyrklund-Bloomberg BN, Gennser G, Cnattinguis S. Placental abruption and perinatal death. Paediatr Perinat Epidemiol. 2001;15:290-7.
- Willium A, Lieberman E, Mittendorf R. Risk factors of abruption placentae. A J of 5. Epidemiol. 1991; 134(9):965-72. Menom MK, Sokshi SK. Accidental haemorrhage in teaching hospital. J Obstet
- 6. Gynaecol Ind. 1961; 11:335-41.
- 7 Wasnik SN and Naiknaware SV. Antepartum Haemorrhage: Causes and its effects on Mother Child: An Evaluation. Obstetri Gynaecol Internat J. 2015;3(1):00072. Bibi S, Ghaffer S, Pir MA, Yousfani S. Risk factors and clinical outcome in placental
- 8. abruption: a retrospective analysis J Pak Medic Associat. 2009:59(10):672-4.
- 9. Talpur NN, Memon SR, Jamro B, Korejo R. Maternal and fetal morbidity with abruptio placentae. Rawal Med J. 2011;36(4):297-300. Sher G. Pathogenesis and management of uterine inertia complicating abruptio
- 10. placentae with Sengodan SS et al. Int J Reprod Contracept Obstet Gynecol. 2017 Oct;6(10):4389-4392 International Journal of Reproduction, Contraception, Obstetrics and Gynecology Volume 6 • Issue 10 Page 4392 consumption coagulopathy. Am J Obstet Gynecol. 1977;129:164-70.
- 11. Campbell S, Lee C. Disorders of placentation. In: Obstetrics by ten teacher 17th ed. Arnold London 2002.p.171-3.
- 12 Shrivastava V, Kotur P, Jauhari A, Maternal and Fetal outcome among Abruptio Placentae at a rural tertiary hospital in Karnataka, India: A Retrospective analysis. Int J Res Med Sci. 2014;2(4): 1655-8.