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RESEARCH ARTICLE

SPONTANEOUSREMOVALOFPLACENTAORMANUALREMOVALOFPLACENTA:WHICHISMOREB ENEFICIALTOTHEPATIENTSPOST-OPERATIVELY:

M. Kishore Kumar and Dr. Raja Kumar Shery Angel

Manuscript Info

Manuscript History

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Abstract

Aim: To assess which method of placentare moval has more beneficial effects, spontaneous removal or manual removal and adhere to practice sthat benefit the patient.

Design: RETROSPECTIVECOHORTSTUDY

Methodology: SampleSize:100 Inclusioncriteria:

PostnatalpatientsProcedure: This study is a retrospective cohort study. Thes tudy population will be post natal patients who delivered in Chettinad Hospital.After getting informed consent, the procedure will be explained thoroughly to the participants and only the participants who are willing to take study will part in the The participants were observed on an outpatient basis and those who were admittedinthepostnatalward. Parturients undergoing cesarean delivery were prospectively randomized to have theplacenta removed manually or spontaneously. Patients were excluded from participation if theyhad received intrapartum prophylactic antibiotics or had been determined to havechorioamnionitis. After delivery of the infant, women in the manual group had the placentaextracted by the primary surgeon, whereas women in the spontaneous group had the placentadelivered by gentle traction on the umbilical cord. All study subjects received perioperative prophylactic antibiotics. Their pre operative and post operative reports were analyzed forHaemoglobin counts, their course of antibiotics and days of antibiotics taken operativelywastakenintoconsideration, symptoms such as Dizziness, palpitat ions, headache Tirednessorweakness were asked to the patients and their complete blood counts report, routinereportswerecollectedtobecomparedpreandpostoperatively. This study is a invasive study.

StudyDuration: 2 months (4/10/2023-04/12/2023) Results:

A total of 100 women were enrolled in the investigation, with 48 assigned to the manual removalgroup and 52 allocated to have removal. There were spontaneous no statistically significant differences in mean gestational age, frequency or duration of ruptur ed membranes, frequency or duration of labor, or mean number of vaginal examinationsbetweenthetwostudygroups. Postoperative infections occurred in 5 of 52 women the spontaneous delivery groupcomparedwith12of48womeninwhichtheplacentawasmanuallyextra

cted.Subsetanalysisof patients delivered with ruptured membranes similarly demonstrated a statistically significant reduction in the incidence of postoperative infections with spontaneous placental removal compared with manual extraction. There was a similar trend toward a reduction in post delivery infections associated with spontaneous placental removal in women within tactmembranes.

Conclusion:Spontaneous delivery of the placenta after cesarean delivery is associated with a decrease intheincidenceofpostcesareaninfectionsandanemicsymptomscompared to manual removal of the placenta.

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Introduction:-

Cesarean section (CS) is a life-saving surgery when certain complications occur duringpregnancy and childbirth. CS rates have consistently increased in both developing anddeveloped countries in the recent few decades. Based on the recent data from 150 countries, currently, CS accounts for 18.6% of all births, and for the least and most developed regionsranged from 6% to 27.2%, respectively. Despite advances in modern surgical equipment andpostoperative care, related risks such as hemorrhage, iatrogenic tumors, thromboembolicevents, and infection are still potential threats. Patients with malignant placenta may haveinfluence on the blood loss and clinical outcomes of cesarean section. Additional therapeuticmethods can reduce blood loss during cesarean delivery and preserve fertility in perniciousplacenta previa patients who are complicated with placenta accrete. Among them, hemorrhageis one of the most common complications of delivery and is considered to be the main cause of preventable maternal mortality in the world. Meanwhile, compared with vaginal delivery, cesarean delivery has a higher risk of hemorrhage. Estimating the amount of blood loss during CS is critical to reducing surgically induced morbidity. However, due to its extremely hardaccuracy and poorly reproducible, it is usually underestimated.8 As complications of CS maycause life-threatening bleeding, appropriate procedures should be taken to reduce intraoperative and postoperative blood loss. The type of uterine incision and the method of placental removing are important factors in determining the outcomes during CS. such as theamountofbloodloss.Comparedwithlowerverticalincisionorclassicincision,lowertransverseuterine incision has less operative blood loss. Patients with lower vertical and classic incisioncouldincreaseoperative bloodloss.

Themethodofplacentalremovingisonesuchprocedurethatcanaffectoutcomesofcesareandelivery, such as the amount of bleeding during intraoperative and postoperative, the time ofoperation, the occurrence of postoperative endometritis and may contribute to an increase ordecrease in the incidence of CS. But the ideal method of placental removal during CS is still acontroversial issue. The choice mainly bases on the surgeon's preference. At present, theresearch of placenta resection technology mainly focus on "manual" or "spontaneous"removal.Manual placental removal remains a conflicting issue owing to the risk of postpartumhemorrhage,postpartumendometritis,andplacentalabnormalitiesinsubsequentpregnancies.

Samplesize:

100patients

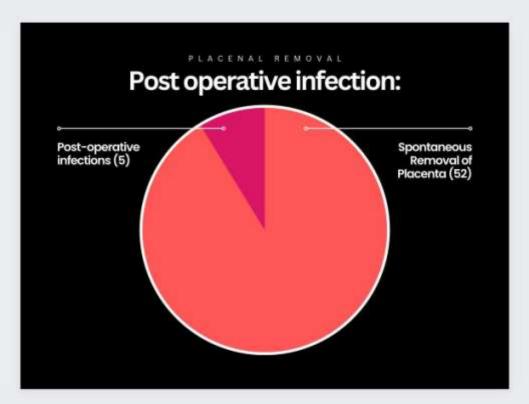
Inclusioncriteria:

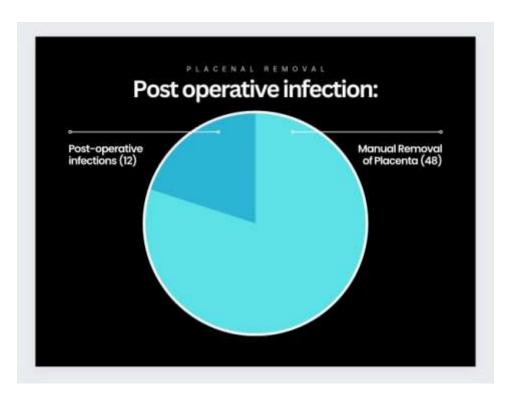
Postnatalpatients

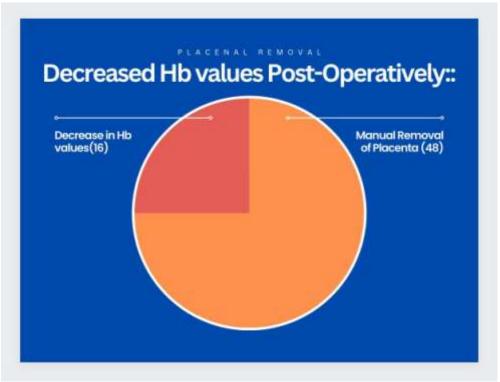
Ethical Considerations:

Information obtained for the purpose of study will be keptconfidential. None of the study participants will be harmed in any manner. The decision towithdrawfromthestudywillbecompletelyuptotheparticipants,therequiredcarewillnotbewithdrawn.











Discussion:-

Afterthefetalisremoved, theuterinemus clesbegintocontract and retractimmediately, therebylessening the size of the uterus; As the uterus becomes smaller, the size of the placental bed issignificantly smaller than that of the incompressible placenta; This causes shear movement, which results in separation of the placenta and compression of the new exfoliated vessels supplying the placental bed, thereby reducing blood loss; This mechanism may explain whyspontaneous placental separation causes less blood loss than manual placental dissection.

Manual placental dissection could cause the problem of fetal membrane residue and affect the contractile function of uterus, which is an important factor in the increase of bleeding. Abnormal placental attachment, placental adhesion or retentionare themost common placental factors of bleeding during manual separation of the placenta.

An additional important factor that affects the amount of bleeding during CS was the type of uterine incision. Patients with vertical lowers egment in cision or classical uppersegment incision are known form or eblood loss than the transverse lowers egment in cision.

regard to endometritis. endometritis complication of is the most common cesarean $section, with an incidence of between 5\% \ and 85\%, depending on the patient population investigated. In our analysis of the patient population investigated and the$ study, pooled results showed that risks of endometritis CS was increased the manual method of placental removal compared with the spontaneous placental delivery.Meanwhile, some studies have claimed that higher risks of endometritis.