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Research Article

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[Comparative analysis of cesarean section using the Robson's Ten-Group Classification System \(RTGCS\) in private and public hospitals, Addis Ababa, Ethiopia](#)

Objectives: We analyzed the indications of cesarean section (CS) using Robson Ten-Group.

Classification Systems (RTGCS) and comparison between private and public health facilities in Addis Abeba hospitals, Ethiopia, 2017.

Methods: Facility-based retrospective cross-sectional study was carried out between January 1 and December 31, 2017, including 2411 mothers who delivered by CS were classified using the RTGCS. Data were entered into SPSS version 20 for cleaning and analyzing. Binary logistic regression and AOR with 95% CI were used to assess the determinants of the CS.

Results: The overall CS rate was 41% (34.8% and 66.8% in public & private respectively, $p < .0001$). The leading contributors for CS rate in the private were Robson groups 5,1,2,3 whereas in the public 5,1,3,2 on descending order. Robson group 1 (nulliparous, cephalic, term, spontaneous labor) and group 3 [Multiparous (excluding previous cesarean section), singleton, cephalic, ≥ 37 weeks' gestation & spontaneous labor], the CS rate was over two-fold higher in the private than the public sector. Women in Robson groups 1, 2, 5 & 9 are two and more times higher for the absolute contribution of CS in private than public. The top medical indications of CS were non-reassuring fetal status (NRFS, 39.1%) and repeat CS for previous CS scars (39.4%) in public and private respectively. Mothers who delivered by CS in private with history of previous CS scar (AOR 2.9, 95% CI 1.4-6.2), clinical indications of maternal request (AOR 7.7, 95% CI 2.1-27.98) and pregnancy-induced hypertension (AOR 4.2, 95% CI 1.6-10.7), induced labor (AOR 2.5, 95% CI 1.4-4.6) and pre-labored (AOR 2.2, 95% CI 1.6-3.0) were more likely to undergo CS than in public hospital.

Conclusion: The prevalence of CS was found to be high, and was significantly higher in private hospitals than in a public hospital. Having CS scar [having previous CS scar, Robson group 5 (Previous CS, singleton, cephalic, ≥ 37 weeks' gestation) and an indication of repeat CS for previous CS scar] is the likely factor that increased the CS rate in private when compared within the public hospital.

Recommendation: It is important that efforts to reduce the overall CS rate should focus on reducing the primary CS, encouraging vaginal birth after CS (VBAC). Policies should be directed at the private sector where CS indication seems not to be driven by medical reasons solely.

Research Article

Published Date:- 2021-06-11

[Factors associated with Female Genital Mutilation among daughters of reproductive aged women at Academic Charity Teaching Hospital \(ACTH\)](#)

Introduction: It is estimated that more than 200 million girls and women alive today have undergone female genital mutilation. Female genital mutilation still remains to be a serious problem for large proportion of women in most sub-Saharan Africa countries including Sudan, with a high prevalence of 88%.

Objective: The main objective was to identify the factors associated with FGM among daughters of reproductive aged woman.

Materials and methods: A community based cross-sectional study was conducted on 200 mothers, the total sample was collected in ACTH based on the number of reproductive age mothers with at least one daughter older than 5 years. A structured and interviewer administered questionnaire was used to collect data. The data obtained was analyzed by the use of the SPSS software.

Results: Out of 200 mothers, 113 (56.5%) had at least one circumcised daughter. Knowledge about genital mutilation (AOR = 4.29, 95% CI: 1.13-15.37), attitude (AOR = 48.53, 95% CI: 14.45-198.69) and mothers circumcision status (AOR = 14.03, 95% CI: 2.81- 95.45) were the most significantly associated with FGM. Furthermore, having good knowledge, positive attitude, high socio-economic status, being literate, being of Christian religion and living in urban area had lower odds of having a circumcised daughter.

Conclusion: In this study, more than half of the mothers had at least one circumcised daughter. Mothers' knowledge, attitude, circumcision status, socio-economic status, age, residence, educational level and religion were significantly associated with female genital mutilation.

Clinical Image **Published Date:- 2021-05-05**

[Vulvar lipoma: A rare tumour](#)

A 26 year nulliparous woman presented to the OPD with complaint of painless swelling in the vulva for the last 1.5 years which gradually increased in size causing difficulty in walking.

Case Report **Published Date:- 2021-05-05**

[Menstruating primary umbilicus cutaneous endometriosis: A case report and review of literature](#)

Primary umbilical cutaneous endometriosis is a rare umbilical endometrioma that affects women who are within the reproductive age group. It may be associated with infertility and severe dysmenorrhea and can be difficult to diagnosed in an asymptomatic patient.

We report a case of a 38-year-old nulliparous with seven years history of infertility and severe dysmenorrhea. Her hormonal profile assay and hysterosalpingogram results were normal while her husband semen analysis was also within normal range. She complained of monthly bleeding from a painful rubbery multilobate cutaneous nodule on the umbilicus of one year duration. She was diagnosed of cutaneous endometriosis. The diagnosis was confirmed histologically and she had surgical excision with good outcome.

Case Report **Published Date:- 2021-05-05**

[Pneumocephalus following labour epidural analgesia, a rare case report](#)

The lumbar epidural analgesia is commonly used for labour analgesia. The “loss of resistance to air” LORA technique is commonly used for recognition of epidural space. One of the rare complications of this technique is Pneumocephalus (PC). We want to present a case of Pneumocephalus which the mother developed during epidural analgesia in labour. The patient complained of severe headache immediately after attempt at epidural catheter insertion. The symptoms progressively worsened following delivery. A postnatal anaesthetic review was performed and an urgent CT scan of the brain was arranged that showed pneumocephalus. A conservative management pathway was followed with liberal analgesia, oxygen inhalation and keeping the patient mostly in supine position. Her symptoms regressed in severity over the next three days and subsided after one week. We believe that the amount of air used for LORA should be minimized; LORA should not be used after dural puncture and the use of normal saline would alleviate the risk.

Research Article

Published Date:- 2021-05-04

[Determinants of health seeking behaviour of women with obstetric fistula in south- south and south east, Nigeria: A review of the impact of availability and quality of health care services through a cross-sectional study](#)

Background: Obstetric fistula is a condition that results from obstructed labour, which occurs when the baby cannot pass through the mother's birth canal because it either does not come head first or is too large for her pelvis. Prompt medical intervention, often including Caesarean section, permits a safe delivery for both mother and child. Despite this possibility, yearly, thousands of women across the country receive no such aid and their labour is a futile agony lasting between three and five days, with uterine contractions constantly forcing the baby, usually head first, against the organs of the pelvic and unyielding pelvic bone resulting in Vesico Vaginal Fistula (VVF). The main thrust of this study was to examine how health system factors affect health seeking behaviour of women with obstetric fistula in Akwa Ibom and Ebonyi States, Nigeria.

Methods: Qualitative and descriptive research approaches were adopted for the study and a total sample of two hundred and sixteen (216) respondents comprising of one hundred and fifty (150) post fistula repair operative patients and sixty six (66) health workers were purposively selected using simple random techniques. The data were analyzed using thematic analysis and tables of frequency.

Results: The respondents views showed that availability of treatment centre and quality of health care services influenced health seeking behaviour of women with obstetric fistula in Nigeria.

Conclusion: The study indicated that health seeking behaviour of women with obstetric fistula is a major challenge in Nigeria. Establishment and proper equipment of obstetric fistula treatment centres as well as subsidization of the cost of treatment to allow women with this health problem to access health care services are strongly recommended. Therefore, government at all level and non-governmental organizations need to educate the women and create awareness on the causes and dangers of VVF.

Research Article

Published Date:- 2021-04-28

[Predominance of fetal malformations among pregnant women: A multi-centric observational study](#)

Objective: To observe the predominance of fetal anomalies in pregnant women in a multi-centric setting.

Methods: This prospective observational study included 20225 pregnant women who came for antenatal care in University Hospital and fetal medicine units from 2016 to 2019. Fetal anatomical scanning was done for all participants.

Results: One hundred eighty-three cases had fetal congenital anomalies, yielding a prevalence of around 0.9%. Third of cases had positive consanguinity, this increased in cases of skeletal and thoracic anomalies. The presence of past history of anomalies was evident in 8.2% mostly with skeletal and heart anomalies. History of drug intake was only verified in 1.6% of cases. Sixty-three women out of 183 (34.4%) were diagnosed to have anomalies in fetal nervous system.

Conclusion: Prenatal diagnosis are recommended for early detection of congenital anomalies and counselling.

[A case report of uterine inversion after home delivery](#)

Puerperal acute uterine inversion is a rare obstetric condition observed as a serious complication during the third stage of labor. Reported as one of the causes of postpartum haemorrhage, it commonly requires quick diagnosis and surgical treatment in order to reduce morbidity and lethality. The authors describe a case of uterine inversion with hypovolemic shock after home birth, brought to Hospital Leonor Mendes de Barros. The purpose of this article is to describe a case of acute uterine inversion and its management and a review of aetiology, predictive and risk factors, diagnosis and treatment.

Research Article**Published Date:- 2021-04-21**[A Study of Doppler velocimetry in pre-eclampsia patients, and their perinatal outcome](#)

Pre eclampsia and IUGR are important causes of maternal and perinatal morbidity and mortality. Pre eclampsia is a multisystem disorder, in normal pregnancies trophoblastic invasion transforms high resistance spiral arteries into low impedance uteroplacental circulation. This uteroplacental circulation remains incomplete in pre eclampsia and IUGR. This study is to correlate the Doppler Findings with the Fetal Outcome in pre eclampsia patients, and helps decide appropriate time for delivery with least perinatal morbidity.

Research Article**Published Date:- 2021-04-21**[Comparative study of continuous method and interrupted method of episiotomy in terms of healing of the surgical wound](#)

Episiotomy is a most commonly performed minor procedure. There are various type of episiotomy suturing, in this study two most common types of episiotomy suturing techniques were compare in terms of healing rate. This study concluded that the continuous method of episiotomy suturing is although faster, cosmetically better and associated with less post-operative pain but it heals significantly better than interrupted method of suturing.

Research Article**Published Date:- 2021-04-09**[Synergistic interactions of sperm impairing bacteria: Impact on pregnancy outcome in mouse model](#)

Earlier in our laboratory, the role of various individual sperm impairing microorganisms on sperm parameters and female infertility has been elucidated at higher doses. As, multiple bacterial species tend to exert more pathogenic effect in comparison to single organism hence, present study was carried out to evaluate that if consortia of these sperm impairing organisms can lead to infertility in female mice at sub fertility dose. For this, impact of individual bacterial strains of *Escherichia coli*, *Pseudomonas aeruginosa*, *Pseudomonas aeruginosa*, *Klebsiella pneumoniae* and consortia of *Escherichia coli* and *Pseudomonas aeruginosa*, *Escherichia coli* and *Pseudomonas aeruginosa*, *Escherichia coli* and *Klebsiella pneumoniae* was examined on the motility, viability of mouse spermatozoa and fertility outcome. The results showed that the individual bacterial strains of *E. coli*, *S. marcescens* and *K. pneumoniae* could led to immobilization of spermatozoa by agglutination and *P. aeruginosa* led to immobilization of spermatozoa without agglutination. Also, all of them led to 100% sperm death in 45 min of incubation. In case of consortia of bacterial strains, the results showed sperm agglutination in all the cases and they were able to induce 100% sperm death at 30 min of incubation time. Further, in vivo studies were carried out to evaluate the impact of individual bacterial strains and consortia of bacterial strains on the fertility outcome in female Balb/c mice. For this, female mice were administered intravaginally with 10¹ cfu/20µl of individual bacterial strains or consortia of strains for 10 consecutive days or PBS. The results showed that both individual bacterial strains and consortia of bacterial strains were able to efficiently colonize the mouse vagina. Further, control group receiving phosphate buffer saline and groups receiving individual bacterial strains showed all the pregnancy related changes viz. abdominal distension, string of pearls on palpation as well as delivery of pups on completion of gestation period and delivery of pups. The histological examination of reproductive organs viz. uterus and ovary, of the female mice receiving PBS or individual bacterial strains showed the formation of corpus luteum in the ovary and the formation of decidua's in the uterus, indicative of pregnancy. However, mice receiving consortia of bacterial strains did not show any pregnancy related changes throughout the experiment. Thus, these results indicate that the presence of consortia of sperm impairing microorganisms in vaginal milieu is efficient in provoking infertility even at subfertility doses.
