Course Code : BSCN4001

Course Name: Midwifery and obstetrical nursing

Intra Uterine Foetal Death (IUFD)

GALGOTIAS UNIVERSITY

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD

• Definition:- Death of the foetus inside the uterus, after 25 weeks of gestation resulting in the birth of a dead newborn (still born)

 Missed abortion:- is defined as when the foetus dies inside the uterus but before 25weeks of period of gestation

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD - Definition Contd

 ACOG (1995):- Includes only those dead foetuses and neonate born weighing 500 g or more

[80% of all still births occur before term, and more than half are before 28 weeks]

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD - Causes

- Foetal: (25 40%)
 - 1) Chromosomal anomalies
 - 2)Non chromosomal birth defects Neural tube defects, Congenital heart disease, hydrops and hydrocephalus
 - 3)Infections TORCH, Hepatitis, Malaria and Syphilis

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD - Causes Contd

- Placental:- (25 35%)
 - 1) Abruptio placentae/ Placenta praevia
 - 2) Placental insufficiency
 - 3) Intra partum asphyxia
 - 4) Cord accidents
 - 5) Chorioamnionitis
 - 6) Twin-to-twin transfusion

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD - Causes Contd

- Maternal: (5 10%)
 - 1) Hypertension, Diabetes, Antiphospholipid antibodies and Thrombophilias
 - 2) Trauma & Uterine rupture
 - 3) Sepsis, Hypoxia, Acidosis and Drugs
 - 4) Abnormal labour
 - 5) Post term pregnancy
- Unexplained: (25-30%)

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD - Diagnosis

- History of Absent foetal movements
- Stationary maternal weight
- Height of uterus less than period of amennorhoea (gradual regression in SFH)
- Uterine tone decreased (flaccid uterus)
- No foetal movements on palpation
- Foetal head 'Egg shell crackling'
- FHS 'Absent' (Stethoscope, Doppler & USG)

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD - **Investigations**

• To confirm the diagnosis of IUFD:-

1)USG – Absence of foetal movement, foetal heart movement and foetal breathing movement if observed over 30 min

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD – Investigations contd

- 2) X-Ray abdomen
 - a)Spalding sign (irregular overlapping of skull bones, after 7 days of IUFD)
 - b)Hyper flexion/hyperextension of foetal spine (softening of ligaments)
 - c) Crowding of ribs
 - d)Gas shadows in the chambers of heart/great vessels (after 12 hours of IUFD Robert's sign)

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD - Stillborn

• Evaluation of stillborn: - Malformations, skin staining, degree of maceration and Colour (pale or plethoric)

 Maceration:- Aseptic autolysis of foetus in sterile liquor (skin edematous/ blisters, peels off & dusky red; Ligaments, brain matter and viscera's liquefaction)

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD - Umbilical Cord

- Cord prolapse
- Entanglement of cord neck/ arms/ legs
- Haematomas or strictures
- Number of vessels (Two arteries single artery is associated with congenital anomalies & one vein left vein disappears by 4th month)
- Cord length [30 to 100 cm; (50 cm)]

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD – Placenta, membranes & Amniotic Fluid

- Placenta:- Weight (1/6th of baby weight), staining, adherent clots, structural abnormalities circumvallate/ accessory lobes, velamentous insertion & Oedema
- Membranes:
 — stained/thickening
- Amniotic fluid:- Volume, Colour meconium/ blood stained and Consistency

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD - Management

- Confirmation of IUFD [USG], Reassurance and psychological support
- Baseline coagulation profile Fibrinogen, Plasma Thromoplastin Time and FDP
- Induction of labour :- a) Bishop's score to see favourability of cervix – PG E2(Dinoprost) and PG E1(Misoprost) b) Oxytocin in high dose
- Caesarean section Placenta praevia, Previous two LSCS and Transverse lie

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD - Management contd

- Post delivery:-
 - psychological support
 - sedation
 - suppression of lactation {Bromocriptine}
- evaluation of still born foetus, placenta membranes & amniotic fluid

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

IUFD - Complications

- Psychological trauma to woman and family [increased anxiety & post partum depression]
- Coagulation disorders defibrination syndrome if foetus retained more than four weeks [silent DIC – 10 to 20%]
- Abnormal uterine contractions, retained placenta and post partum haemorrhage

Course Code: BSCN4001

Course Name: Midwifery and obstetrical nursing

BIBLIOGRAPHY

- Textbook of Obstetrics by Sheila Balakrishnan
- Annamma Jacob. A comprehensive textbook of midwifery and gynecological nursing. 4th edition. New Delhi: Jaypee brothers; 2015.
- DC Dutta's. Textbook of obstetrics including perinatologyandcontraceptive.7th. New Delhi: Jaypee brothers; Nov2013.
- Myles. Textbook for midwives. 16th edition.
 New York: Elsevier; 2014.