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Emergency situationsin Obstetrics and Gynecology

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VSPO011p First Aid - lecures

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The conduct of labour - present and future

Gerychová Romana
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2004/2005

1. Definition

- expeling fetus, placenta, umbilical cord, amniotic fluid from the mother body during labour
- delivered fetus newborn child with signs of life (heart rate, spontaneous breathing, movements, pulsate umbilical cord) of any weight or without signs of life with weight 1000g and more

■ Premature labour 24 − 36 gestational weeks

Term labour

38 – 42 gestational week

Post term labourafter 42 gestational week

until 24 gestational week - abortion

2. Labour date

estimated data of the labour

- average pregnancy duration:
 - 40 weeks (280 days)
 from the last date of the menstrual
 period
 - 38 weeks (266 days) from the conception

Estimating labour date according

- first fetal movement
- date of the conception
- ultrasound measurement
- date of the last menstrual period

3. Clasification

- spontaneous labour
- medicamental labour (spontaneous beggining)
- induced labour
- operative labour
- physiologiacal labour
- pathological labour

4. "Delivery tract "

- hard ,, delivery tract ,, pelvis
- soft ,, delivery tract ,,

low segment

cervix

vagina

external

pelvic floor

5. Labour force

- uterine contractions frequency,intensity syntocinon, prostaglandins (E2, F2 alpha)
- abdominal press
- gravitation

6. Fetus

The most frequent fetus presentation — cephalic.

Fetus head- the biggest problem during delivery (size, shape) – influence on conduct of labour, labour outcome Skull: two frontal bones, two parietal bones, two temporal bones, one occipital bone Joints- frontal, saggital, lambdoid, occipital Fontanelle – big and small

Good prognosis - during delivery fetus head is coming into the pelvis with small oblique diameter
 (middle of the big fontanelle - 9 cm)

7. Delivery progress

7.1. Preparatory stadium
 dolores praesagientes
 preparing of uterine muscles
 going down uterus
 cervical slimy secretion

Delivery beginning

- regular uterine contractions
- rupture of membranes

Expectant and active conduct of labour

- 7.2. I.labour stage (openig)
 - latens cervical rippening active – cervical dilatation to 8 cm transitory – 8 cm and more
- 7.3. II labour stage (expeling)
 fetus expeling, episiotomy
 Fetus head delivery flexis, internal
 rotation, deflexis, external rotation
 Fetus shoulders delivery

7.4. III. labour stage
 expeling placenta and fetal membranes

- 7.5. IV.labour stage
 - 2-3 hours after delivery

- Delivery duration
 - 6 12 hours (primipara)
 - 3 9 hours (multipara)
 - 60 minutes and lessprecipitous delivery

8. Delivery room incoming

- anamnesis, external examination, obstetric examination
- nonstress test, amnioscopy, ultrasoundDoppler sonography
- blood presure, pulse, body temperature
 blood and urine testing, vaginal cultivation
- delivery preparing (shower, bath)

9. Labour monitoring

- women status − blood presure, pulse, body temperature, pain, psychical status
- uterine contractions external examination and monitoring
- labour progression internal examination
- fetus status fetal heart rate,
 cardiotocography, amniotic fluid quality
- bleeding and coagulability

10. Fetal monitoring

- cardiotocography (external, internal)
- intrapartal fetal pulse oxymetry
- \blacksquare S T analysis (fetal EKG)
- ultrasound examination presentation,estimated fetal weigt
- Doppler ultrasound examination umbilical cord, haematoma

11. Conduct of labour

- doctors and midwifes role
- paediatrician and nurse
- neonatus examination and treatment
- II. and IV. stage of labour
- injury, blood loss, umbilical cord testing genitals hygiene, blood presure and pulse, urination, hydratation, psychic status, rest, transfer to the rest room

- forceless delivery
- accompanied father
- home delivery
- mother position during delivery
- water birth
- elective Caesarean Section
- induced delivery
- analgesis during delivery

- relaxing technic
- musicotherapy
- aromatherapy
- backbone and perineal massage
- prelabour preparation
 - **♦** basic
 - enlarged
 - breast feeding
 - ◆neonatal care

Obstetrics bleeding

Jelínek, J., Hudeček, R.

Obstetrics bleeding - introduction

- Spectrum ranges from small show with little clinical significance to a catastrofic haemorrhage which qiuckly causes to death.
- Bleeding can occur at any stage of pregnancy or labour.

Obstetrics bleeding - incidence

Туре	Incidence %	PMRate /1000 Births
None	88,7	16,8
P. praevia	0,5	81,4
Accident	1,2	143,6
<28 weeks	4,2	61,0
Other	4,6	70,5
No	0,8	21,4
information		

Obstetrics bleeding - summary

- Ectopic pregnancy
- Second trimester
- Placenta praevia
- Vasa praevia
- Placental abruption
- Other conditions
- Unexplained

- Postpartum haemorrhage
- Retained placenta
- Coagulopathy
- Uterine atony
- trauma rupture
- long-term complications

Ectopic pregnancy - risk factors

- High risk:
 - ◆ tubal surgery, prevoius ectopic pregnancy, use of IUD, tubal patology
- Moderate risk:
 - infertility, previous genital infection
- Slight risk:
 - cigarete smoking, previous abdominal surgery

Ectopic pregnancy - symptoms

- Abdominal pain
- Vaginal bleeding
- Abdominal and Adnexal tenderness
- History of infertility
- Use of an IUD
- Previous ectopic pregnancy

Ectopic pregnancy - diagnosis

- 5 9 weeks of amenorrhoea
- Pelvic pain
- Vaginal bleeding
- Positiv pregnacy test hCG
- No dunling time of hCG elevation
- US no suc is seen within the uterus
- Laparoscopy

Ectopic pregnancy - treatment

- Surgical
 - ◆radical salpingectomy
 - konzervative longitudinal incision
- Medical
 - **◆**MTX
 - Prostaglandins, hyperosmolar glucose
- Expectant
 - monitoring of hCG levels

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