

Masaryk University School of Medicine and Brno University Hospital Department of Obstetrics and Gynecology Head: Prof. Pavel Ventruba, MD, DSc.



Emergency situations in Obstetrics and Gynecology

M. Huser

Department of Obstetrics and Gynecology LF MU and FN Brno

VSPO011p First Aid - lecures

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The conduct of labour – present and future

Gerychová Romana Janků Petr 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 labour after 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 freqent 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, ultrasound Doppler 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 ■ 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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