Obstetric Training Symposia and Workshops 產科技能研討會暨工作坊

2020.7.24-26

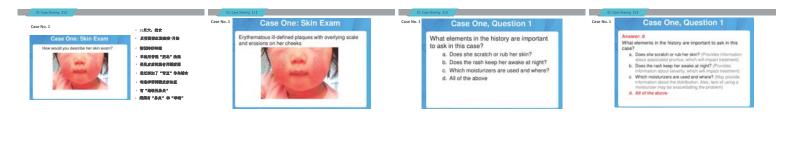














What is Eczema

Eczema is a general term, often used interchangeably with dermatitis. interchangeably with dermatitis. Eczema is a chronic, inflammatory condition that is characterised by Oryness Oep-seated itch Redness and inflammation



Incidence · One of the most o on skin disorders of childh

 The incidence of eczema has increased steadily in westernised countries, over the past 40 years
 It is believed that up to 1 in 4 children may be affected
 It affects around : In americs around i 30% of preschool-age children, 15% of school-age children and 9% of adolescents 360% of the children will have onset before the age of 1 year.

- The word 'atopy' comes from the Greek word meaning 'without place, unusual.' Described by Coca and Cooke in 1923

- Coca and Cooke in 1923 Ercema has been historically thought of as an allergic disease Atopic Dermatitis (inflammation of the skin due to allergies) However, more recently it has been suggested that we should be dividing the condition of 'eczema' into 2 terms.

Atopic - having allergic tendencies

- (extrinsic)
- Non atopic not having allergic tendencies (intrinsic)

Etiology is multifactorial Clinical factors · Molecular factors- Immunological factors · Genetic link

Genetic link
Inherited disorder, presumably autosomal dominant

- Often associated with either a family or a personal history of other 'allergic' conditions (e.g. asthma or allergic rhinitis)
 If a child has one parent with atopic eczema –
- 20%
- If both parents have (or had) atopic eczema –



AD skie





Why has the prevalence increased?

- The genes that predispose us to eczema has not changed, but our environment has
 One theory we are exposing our skin to more scops and varcatants such as bubble baths to wash bables
- Soap and surfactants shown to decrease the stratum corneum by 40%

- Normal pH of the skin is 5.5
- Exposure to soap and surfactants
 7.5 or higher
- S0% increase in protease activity
 greater breakdown of the skin barrier
 Increase penetration of irritants and allergens



嬰兒生長發育評估 #15888.844 5558884

生長發育概念

生長: 指身體各器官、系统的增長, 是量的變化, 是發育的 物留基礎。 發育:指細胞、組織、器官功能上的分化及成熟,是質的變 上。 生長是發育的物質基礎 發育成熟反應生長的變化

生長發育的規律

1. 生長發育的連續性和階段性; 主 秋 致 前 的 连 项 住 护 信 校 住 ;
 各 系 統 器 官 發 育 的 不 平 衛 性 ;
 生 長 發 育 的 顺 序 性 ;
 生 長 發 育 的 個 體 差 異 。



生長發育的連續性和階段性

生長發育是一個連續不斷的過程,但不同年齡的生長發育速 度不同,呈現階段性。 生長發育有兩個高峰:嬰兒期和青春期



各系統器官發育的不平衡性 生長發育的順序性 神經系統發育較早,70%的大腦重量和結構發育在胎兒期和 嬰兒期完成。 化上到下 化近到速 生殖系統發育較慢 淋巴系統從快到慢 由租到細 由簡單到複雜 由低級到高級





由於受機體內、外因素的影響,嬰兒生長發育存在較 大的個體差異,各有其自己的生長"軌跡"。



影響生長發育的因素

1. 遺傳 2. 營養
 3. 性別
 4. 疾病
 5. 孕母狀況 4. 生活環境



| 體格生長發育評估指標

徵重、身高、坐高、项围、胸围、腹围、上臂围、囟門、牙齒



體重

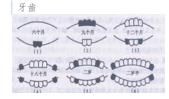
14日 正 1. 健重是身種器官、系統、健派總重量; 2. 健重是反映機器生長和豪華量的重要依案; 3. 他是臨床計算構造量和協業量的重要依案; 4. 遗考44個間違素為出生健實用俗,12個月是三倍。 5. 健重推算公式: 1→5月: 健重(kg) =出生健重(kg) + 月約X 0.7 (kg) 7→12月: 健重(kg) =出生健重(kg) + X 0.7 (kg) + (月針-6) X 0.4 (kg)

身高

- 身高是指從頭頂到足底的全身長度,是頭部、脊柱及下肢 長度的總和;
- 2. 身高是反映骨骼發育的重要指標;
 - 2. 嬰兒多採用仰臥位測量,身高又稱為身長;
 4. 新生兒出生平均身長50cm,6個月大概65cm,一周歲大概 75cm。

頭圍

- 1. 頭剛反映腦與顱骨的發育: 项围风灰加兴顺有的安有,
 新生兒頭圈平均34cm,1歲大概46cm;
 頭圈過小:腦發育不全、頭小畸形;
 頭圈過大:腦積水、佝僂病後遺症;



感知發育

1. 視覺發育 1. 現覺發育
 3. 嗅覺和味覺發育

4. 皮膚感覺發育

視覺發育

视覺發育的關鍵期在3月---6月 税業会育問題提用在3月-0月 新生兄: 現長基住衆115-2000; 2月: 現居払調写注度依體; 3-4月: 書数者自己的手, 進基活動的人或物體; 4-5月: 認識研經, 勃然; 6-7月: 目光可量度移動; 8-9月: 出現保度成果是, 能希小物體; 1-2歲: 區別各建圖形。

聽覺發育

聽覺發育對語言發育有重要意義; 出生: 鼓室無空氣, 職力差; 3-4月: 定向反應, 職到伐耳聲音會做笑; 6-7月: 區別父母聲音; 8個月: 職懂自己的名字; 1-2歳: 於該僅領單吩咐

嗅覺和味覺發育

出生時嗅覺和味覺發育已很完善,可對不同味道產生不同的 反應: 4-5月的嬰兒對食物的微小變化已很敏感,為宋覺發育關鍵期; 嬰兒早期的味覺經歷的變化對以後接受食物有特殊作用。

皮膚感覺發育

- 觸覺:新生兒很敏感,敏感部位是唇、口周、手掌及足底 等,有先天的反射動作;
- 2. 痛覺: 新生兒已有, 但反應遲鈍, 2個月後才逐漸完善;
- 溫度覺:新生兒很敏感,環境溫度驟降時即啼哭,保暖後 就安靜。

知覺發育

5-6個月開始通過看、咬、摸、開、放擊等活動逐步了解物體各方面的屬性。

運動功能的發育



語言的發育

嬰兒期主要處於發音階段 1-2月發喉音; 2月發簡單元音; 7-8月無意識叫爸爸媽媽; 9月聽懂簡單詞語; 10月有意識叫爸爸媽媽。

總結:嬰兒一周歲時

1. 體重為出生體重三倍; 身長約70-80cm; 開始出牙; 本能反射生來佳, 2、3抬頭笑認媽;
 4、5翻身辨親疏, 6、7會生學咿呀;
 8、9爬行10叫爸, 12開步學短話。

Q&A

謝謝













Quin Wai Man, KUOK 第二章 Obstetrics and Gynecology Specialist Nurse

Content

- · Contraction and Height of Uterus
- Lochia Breast
- Lower Limbs

Definition

- The time after delivery when maternal physiological and psychological changes related to pregnancy return to the non-pregnant state.
- · The postpartum period
- The puerperium The fourth trimester

Definition

- · All issues pertaining to the mother and the baby after birth up to 6 weeks (42 days)
- Immediate postpartum (First 24 hours)
 Early postpartum (First week)
 Late postpartum (Second week till end of 6 weeks)
- · Postpartum care

-6 - 8 weeks after delivery

Uterus

- Uterine Involution
- -The return of the uterus to a non pregnant state after birth. Involution Process
- -Begins immediately after expulsion of the placenta with contraction of the uterine smooth muscle.

Uterus Involution

- Ischemia
- -Occurs as result of collapse of blood vessels. · Autolysis:
 - A physiological process by which involution of the uterus is achieved. Breakdown of the intracellular protein by proteolytic & hydrolytic enzymes.

Uterus Contractions

- - · Postpartum hemostasis. • Myometrial retraction (brachystasis)
 - Compression of intramyometrial blood vessels.
 - The uterine muscle contracts rather than by platelet aggregation and clot formation.

Uterus Contractions

- · The hormone oxytocin
- · Exogenous oxytocin
- The uterus is very sensitive to oxytocin during the first week or so after birth
- · Vigorous contractions are more common in multipara.

Placental site

- · Vascular Constriction and thromboses reduce the
- placental site to an irregular nodular and elevated area. · Upward growth of the endometrium causes sloughing of necrotic tissue and prevents the scar formation characteristic of normal wound healing.
- This unique healing process enables the endometrium to resume its usual cycle of changes and permit implantation and placentation in future pregnancie
- · Endometrial regeneration is completed by postpartum day 16, except at the placental site
- Regeneration at the placental site usually is not complete until 6 weeks after birth

Uterus	Biometry
Biometry	of gravid uterine

Biometry of gravid uterine horn

Days Pospartum	Weight	Diameter of gravid uterine horn
Immediately after birth	1000g	18cm
1 Weeks after abirth	500g	12-14cm
2 Weeks after abirth	350g	7cm
6 Weeks after abirth	60-80g	3-4 cm

Uterus Assessment

- · After compete delivery of placenta: -Feel if uterus is hard and round -If not, massage fundus in a circular motion
 - with cupped palm until uterus is well contracted -Location: Midline

the Right side uterus might mean full bladder

Uterus Fundal Descent

- Immediately after birth

 Midline
 ± 2cm below umbilicus.

 Within 12 hours

 Rise to ± 1 cm above the u
 During next few days
 Descends. 1-2 cm (finger every 24 hours)
 By day 6
 Normally located balfway.

 y day 6 - Normally located halfway bet the umbilicus and the symp pubis.
- After 2 weeks the uterus should not be palpable abdominally.
- Lochia Lochia **Estimating Blood Loss** Volume of Lochial Flow in hour · Postbirth uterine discharge · Normal blood loss · About 10% to 15% of women still have Lochia rubra: -Vaginal delivery: 500mL normal lochia serosa dischare at their 6 weeks - 1-3 Days postpartum examination. - Fresh blood from placenta -Cesarean delivery: 1000mL Lochia serosa: Endometritis - 3-10 Days · If blood loss is excessive, weight linens - Fever - Brownish pink after 4 days - Pain and pads for a more accurate estimation. Lochia alba: - Abdominal tenderness – 10-14 Days or longer
 – Whitish discharge - Offensive odo • 1 Milliliter of blood = 1 gram in weight.

Lochia

- Lochial bleeding
- lochia usually trickles from the vaginal opening. the steady flow is greater as the uterus contracts.
- A gush of lochia can appear as the uterus is massaged.
- · Non-lochial bleeding -Cervical or vaginal tears

tears

If present

-Repair the tear

- · The amount of lochia is usually less after a cesarean birth.
- · Flow of lochia usually increase with ambulation and breastfeeding.
- -Lochia tends to pool in the vagina when the woman is lying she stands. -This gush should not be confused with
- hemorrhage

Assessment- Vaginal bleeding

· Check for perineal and lower vaginal

Assessment- Vaginal bleeding

- Heavy Bleeding
- Pad soaked in < 5 min
 Constant trickling of blood
- Bleeding >500ml Call for extra help
- Massage uterus until it if hard and give oxytocin 10 Units • Insert an IV line
- Empty bladder
- Check and record BP and pulse every 15 minutes and treat as on

- · Check and ask if placenta is delivered
- · Placenta not delivered
 - -When uterus is hard, deliver placenta by controlled cord traction
 - -If unsuccessful and bleeding continues, remove placenta manually and check placenta
 - Give appropriate antibiotics

- · Placenta delivered · Check placenta

- Conclex placence
 Complete
 Massage uterus to express any clots
 If uterus remains oft, give ergometrine
 ONO Tog we if cleampsin, pre-clampsi
 Continue IV fluids with oxytocin
 Continue massaging uterus till it is hard
- Incomplete
- Remove placental fragments Give appropriate antibiotics D&C if unable to remove

-Examine the tear and determine the degree measures

Assessment- Vaginal bleeding

- · Heavy bleeding
- -IV Fluids with oxytocin -Insert second IV line
- More Pharmacological

- Apply bimanual uterine compression

Assessment- Vaginal bleeding

- · Heavy bleeding
 - Surgical measures
 - · Intrauterine balloon tamponade

• Haemostatic suture around uterus (e.g. B-lynch)

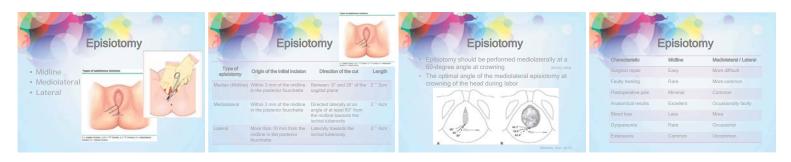
· Bilateral uterine or internal iliac artery ligation • Hystere ctomy





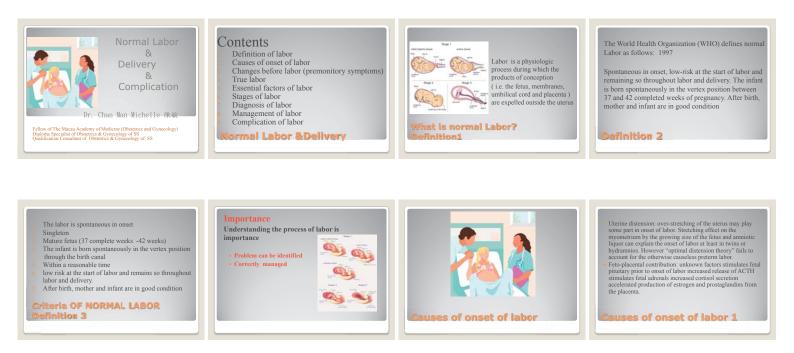












he probable modes of action of estrogen are: --increase the release of oxytocin from maternal

- pituitary --promotes the synthesis of receptors for oxytocin in the myometrium and decidua. --accelerates lysosomal disintegration inside the decidual cells resulting in increased prostaglandin synthesis
- stimulates the synthesis of myometrial contractile ---increase the excitability of the myometrial cell membranes

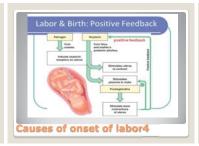
Causes of onset of labor2

eased fetal production of dehydroepiandrost ol may inhibit the conversion of fetal pregne ing the estrogen : progesterone ratio. The alt sterone ratio rather than the fall in the absolu rogesterone which is linked with prostagland

synthesis of prostaglandins are placenta d myometrium. Synthesis is trigged by -rogen-progesterone balance, mechanical ase in oxytoein receptors specially in the n or rupture of the membranes. • netrial contraction is more dependent on tytocin. oxytocin level reaches the Idins: In-Ibranes dectors g in late pregnancy, increas-yera, infection, separation or r nit is probable that myometri readiness to respond to oxytor whe moment of the birth. -Iso be in

may also be initiated through nerve pa

uses of onset of labor3



The premonitory stages may begin 2-3 weeks before the onset of true labor in prim-gravida and a few days before in multipara.

The symptoms are inconsistent and may consist of the following:

- false pain
- lightening blood show

cervical changes

monitory symptoms of labor

False Pain

- It usually appears prior to the onset of true labor pain, by one or two weeks in prim-gravida and by a few days in multipara. Ldiscomfort is characterized as over the lower abdomen Ldiscontrart as a characteristic of the cervix (not associated with progressive dilation) 3 typically shorter in duration 4.less intense

Premonitory symptoms of labor

Lightening Few weeks prior to the onset of labor specially in prim-gravida, the presenting part sinks into the pelvis. The patient reports the sensation that the baby has gotten less heavy, the result of the fetal head descending into the pelvis. The patient often notice that the lower abdomen is more promutent and the upper abdomen is flatter, and there may be more frequent urnation as the budder is compressed by the tetal head. unauter is compressed by the fetal head. This descending diminishes the fundal height and hence Minimis the pressure on the diaphragm. This makes the woman more comfortable and has an easier time breathing.

It is a welcome sign, as it rules out cephalopelvic disproportion and other conditions preventing the head from entering the pelvic inlet.

Premonitory symptoms of labor

Blood show

DIOUCI SILOW With the onset of labor, there is profuse cervical secretion. Simultaneously, there is slight oozng of blood from rupture of capilary vesses of the cervix and from the raw decidual surface caused by separation of the membranes due to stretching of the lower uterine segment. Explosition of cervical mucus plug, mixed with blood is called show. This bloody show results as the cervix begins thaning out with the above transitions the cervix begins thaning out with the Activity of the provide the strength of the strength of the Patients often report the passage of blood-inged mucus late in preennex.

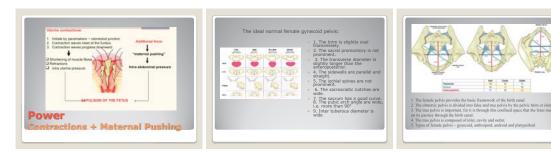
Premonitory symptoms of labor

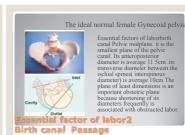
Cervical changes:

several days prior to the onset of labor the cervix becomes ripe. A ripe cervix is soft, less than 1.3cm in length, admits a finger easily and is dilatable. Cervical effacement is common before the onset of true labor

Premonitory symptoms of labor















History of Cesarean Section Modern C-Section 1881 First modern C-section performed by German Gynaecologist, Ferdinand Adolf Kehrer. He introduced transverse incision of Uterus.

- transverse incision of Uterus. **1882 Max Sengre** introduced uterine suture, and Saenger's Operation^{*}, Kehrer and other surgeons later applied this operation. **100 Horman Johannes Plannenstiel** introduced **1900 Horman Johannes Plannenstiel** introduced Pfannenstiel's incision (bikini-line incision) Anesthesia, aseptic technique, antibiotic and blood transfusion was developed later, thus improving the outcome of C-section.







- that the ideal C-section rate should be between 10-15%.
- that the uteal L-section rate should be between 10-15% Factors associated with rising rate of C-section (C.S) Procedure as high forceps and difficult mid forceps are abandous favor of C.S Increase C.S delivery in breech presentation Destructive operations are abandoned in favor C.S Decreased monthity and mortality due to C.S encourages its us Increased repeated C.S due to increased primary C.S



