

# ملخصات إنسولين

ملخص مادة الأطفال العملي



“وقفنا الله وإياكم“



الاطفال العالين  
الكبار

\* APGAR Score :- For Newborn (Immediately after delivery)

1 Min  
↓  
(Assess tolerated of Birth Process.)

5 min  
↓  
(How baby doing outside.)

الهدف من تقييم حالة الطفل  
المنوية فور ولادته  
من أجل اتخاذ الاجراء  
المعنى المناسب

Score	Appearance	Pulse	Grimace	Activity	Respiration
0	Blue all over (cyanosis)	No Pulse	No Response to Stimulation	No Movement (at all) Flaccid	No Respiration
1	Blue extremities (Acrocyanosis)	< 100 beats/min	Grimace on stimulation	Some flexion (حركات فضيحة)	Weak, irregular Slow
3	No Blue Colouration (Pink color)	> 100 beats/min	Cry on stimulation	Flexed Limbs Elate resist extension (كاش على كرفه)	Strong cry (Regular)

Normal  $\geq 7$   
Low 4-6  
Critical  $\leq 3$   
(Mechanical Ventilation)

\* Normal pulse: 120-140  $\left[ \begin{matrix} \text{جيد} \\ \text{جيد} \end{matrix} \right]$  160-180  $\rightarrow$  عن الكبار

\* If the Infant was Low or Critical :-  
 Suction.  
 O<sub>2</sub>.  
 Stimulation. (اشد على كرفه)

\* Vaccines :-

- Contraindications :-
- 1- Immune deficient child.
  - 2- Child on chemotherapy.
  - 3- Child with organ transplant.
  - 4- High grade fever  $> 38^{\circ}C$ .
  - 5- Anaphylactic Reaction.
  - 6- Preterm  $< 30$  weeks

- Immunization Reactions :- (mild)
- 1- Drowsiness.
  - 2- Irritability.
  - 3- Low grade temperature.
  - 4- Redness, Tenderness, or Lump formation at the injection site.

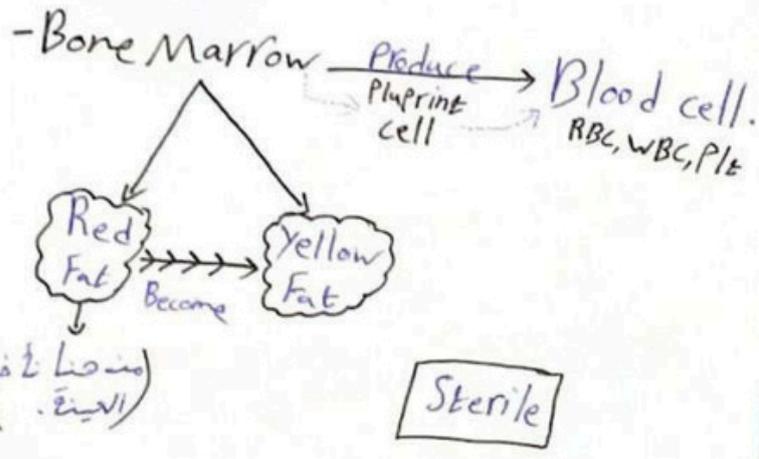


## NURSING TEAM Vaccines

Vaccine name	Type	Route of administration	Site of administration	Dose	Age	Side effects
<b>BCG</b> (Bacillus Calmette Guerin)	Live attenuated	ID	Upper left arm*	0.05 ml	Birth- 30 days	Local: redness, swelling and lump formation (2-4 weeks), then scar formation
<b>OPV</b> (oral polio) <b>IPV</b> (IV Polio)	Live attenuated Inactivated (killed)	PO IM	Mouth Vastus lateralis	2 drops 0.5 ml	1 <sup>st</sup> dose: 61 day (IPV) 2 <sup>nd</sup> dose: 91 day (IPV+OPV) 3 <sup>rd</sup> dose: 121 day (IPV+OPV) 4 <sup>th</sup> dose: 9 months (OPV) 5 <sup>th</sup> dose: 18 months (OPV)	Local: redness, swelling, hotness, and pain  Systematic: low grade fever, drowsiness, and irritability
<b>DPT</b>	<b>Diphtheria:</b> Toxoid <b>Pertussis:</b> Inactivated (killed) <b>Tetanus:</b> Toxoid	IM	Vastus lateralis	0.5 ml	1st dose: 61 day 2nd dose: 91 day 3rd dose: 121 day 4th dose: 18 months	(After 24-48 hr.)
<b>HBV</b> (Hepatitis B Virus)	Inactivated (killed)	IM	Vastus lateralis	0.5 ml	1st dose: 61 day 2nd dose: 91 day 3rd dose: 121 day	
<b>Hib</b> Haemophilus Influenza b	Live attenuated	IM	Vastus lateralis	0.5 ml	1st dose: 61 day 2nd dose: 91 day 3rd dose: 121 day	
<b>Measles</b>	Live attenuated	SC	Upper right arm	0.5 ml	9 months (1 <sup>st</sup> day of 10 <sup>th</sup> month of age)*	low grade fever, and rash (1 week- 10 days)
<b>MMR</b>	Live attenuated	SC	Upper right arm	0.5 ml	1 <sup>st</sup> dose: 1 year 2 <sup>nd</sup> dose: 18 month	low grade fever, drowsiness, and rash (1 week- 10 days)
<b>Rotavirus vaccine</b>	Live attenuated	PO	mouth	2 drops	1st dose: 61 day 2nd dose: 91 day 3rd dose: 121 day*	-

By: Laila Abdelhadi, Oct. 2021

# \* Bone Marrow Aspiration :->



with Anesthesia

- Indication :-
- 1- Disease related to blood (Hematology disorder)
  - 2- Stage or Progress of disease.
  - 3- Monitor Treatment.
  - 4- Investigate unknown origin Fever.

- Complication :-
- 1- Bleeding.
  - 2- Infection in site.
  - 3- Allergic reaction to anesthesia.
- Benefits :-
- 1- Guides cancer treatment.
  - 2- Evaluates blood cell production.
  - 3- Assesses bone marrow health.

## - Site :-

- 1) < 12 year  $\rightarrow$  Iliac crest.
- 2) < 2 year  $\rightarrow$  Long bone (Tibia).

## - Special care :-

- 1- Position supine and apply sand bag at least 6 hr.
- 2- Observe site for sign of bleeding.
- 3- Monitor V/S.

# \* Medication Calculation :->

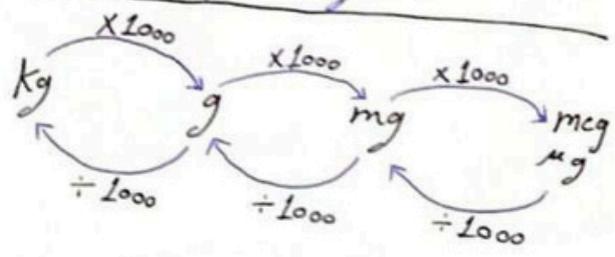
1) Liquid medication :->  $\frac{\text{Dose desired}}{\text{Dose in hand}} \times \text{quantity in ml} = \text{Volume to be administered}$

## 2) IV Fluid calculations :-

$\frac{\text{Rate}}{\text{Infusion time (hr)}} = \text{ml/hr}$

- Volume x drop factor = drops/min
- Macro drip = Volume x  $\frac{20}{hr} \times 60$
- Micro drip = Volume x  $\frac{60}{hr} \times 60$
- Hemoset (blood transfusing) = Volume x  $\frac{10}{hr} \times 60$

From	To
1 Liter	1000 milliliters.
1 milliliter	1 cubic centimeter.
1g	1000 mg
1 mg	1000 mcg
1 tsp (teaspoon)	5ml
1 Kilogram	1000 grams.



3 Maintenance fluid for children:-

Weight	Requirement
0-10 kg	100cc/kg/24hr
11-20 kg	1000 + 50cc/kg/24hr
>20 kg	1500 + 20cc/kg/24hr

\* Forms of oral medications :-

Capsules	Tablets
- Cannot be broken or divided	- only divide if scored - Coated tablets are not to be broken.



\* Reflexes :-

1 Rooting reflex:-

The child moves his face in the same direction when his cheek is touched → Disappear at 3-4 months

2 Moro OR Startle reflex:-

when the baby startled by loud sound or movement.   
 Disappear at 3-4 months

3 Stepping reflex:-

Take steps when held upright. → Disappear at 3-4 months

4 Tonic neck Reflex:-

Disappear at 5-7 months

5 Palmar grasp:-

6 Planter grasp:-

7 Babinski Reflex:-

Disappear at 12 months

8 Sucking Reflex:-

- Start at 32<sup>nd</sup> week of pregnancy and not fully developed until 36 weeks
- Premature have immature sucking ability.
- Disappear at 3-4 months

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\* Lumbar Puncture :- (Spinal Tap) → No Anesthesia, Might use Sedation

Sterile

- Purpose: for CSF Analysis and Culture.

- CSF Facts:

- 1- Clear, Colourless fluid
- 2- Found in sub-arachnoid space within the brain (ventricles) and spinal cord
- 3- Produced by choroid plexus and cerebral vessels at rate of 500ml/day.
- 4- Reabsorbed into venous sinus blood via Arachnoid.
- 5- Production matches reabsorption so total circulating CSF at any time is around 130ml.

- Indication:-

1. Measure CSF Pressure.
2. Diagnosis of CSF Infections
3. Infuse medication (Anesthesia)

- Contraindication:-

1. Increased ICP.
2. Skin infection.
3. Severe coagulopathy disease.
4. Vertebral Joint disease.

- Place: Between L<sub>3</sub> and L<sub>4</sub> interspace

- Special care:-

Before	After
Consent form	Apply pressure
No need NPO	Put child flat 4-6 hr
baseline V/s and Neurological assessment leg movement	Head not elevated
Fetal Position Lateral decubitus	Monitor:- V/s - neurological - bleeding

- Complications:-

- 1- Headache
- 2- back pain
- 3- Bleeding
- 4- Brain stem herniation
- 5- Tingling sensation in lower back and legs.

- Amount:-

4 Tubes (1ml ⇒ 25 Drops)

1 Analysis → Glucose (50-80) Protein (15-45)  
 ↓: Bacterial                      ↓: Viral + fungi  
 ↑: Viral + fungi                    ↑: Bacterial

2 Culture.

3 Cell count → WBC (0-5) RBC (0)  
 <100: viral                      ↑: Meningitis  
 ≥100: Bacterial                ↓: encephalitis  
 ↑: Hemorrhage (Subarachnoid)

4 Other cytology - Virology.

قال صل الله عليه وسلم:

“أحبُّ الناس إلى الله أنفعهم للناس”

كن أنت السبب في نفع الناس وانشر الهم  
وشاركنا معلوماتك



نسونين

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