ABCDE

We'll talk about...

- When is the ABCDE approach helpful?
- ABCDE
- Normal vital parameters of children
- Cases

When do we use the ABCDE approach?

Recognition of a critically ill child

- □ sssABCDE
 - Safety
 - Stimulate Response?
 - Shout for help

TREAT FIRST WHAT KILLS FIRST!

A - Airway

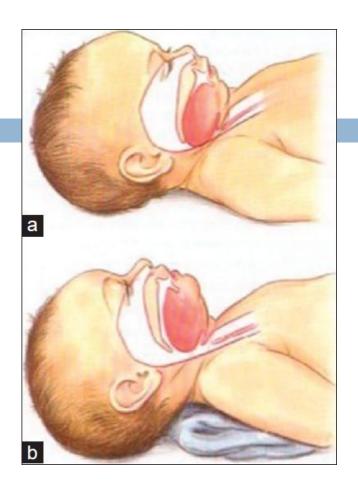
- Safe?
- 2. At risk?
- 3. Obstructed?

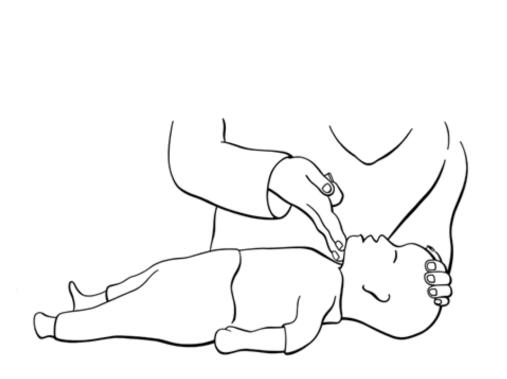
Look, listen, feel

Anatomic features in babies

Position- head tilt, chin lift

CHEST MOVEMENT DOES NOT MEAN CLEAR AIRWAY







B - breathing

- Respiratory rate
- 2. Work of breathing
 - Intercostal retractions, nasal flare, paradox chest movement – <u>respiratory distress</u>
 - Decrease of respiratory effort
- 3. Tidal volume
 - Chest expansion, breathing sounds, simmetry
- 4. Oxygenation
 - Cyanosis, pallor, SpO2

C - circulation

- Heart Rate
- Pulse volume
 - Central/distal pulses
- Peripheral Perfusion
 - CRT, skin temperature- line of coldness, skin color
- Blood Pressure
- Preload
 - Jugular veins turgescense, edge of the liver, moist rales in the lungs
- (+1 Renal perfusion: Urine output)

D - Disability

- Evaluate mental status
- AVPU
- GCS

		asgow Coma Score		
	Infant <1 yr	Child 1-4yrs	Age 4-Adult	
		EYES	**	
4	Open	Open Open		
3	To voice	To voice	To voice	
2	To pain	To pain	To pain	
1	No response	No response	No response	
	72	VERBAL	10	
5	Coos, babbles	Oriented, speaks, interacts, social	Oriented and alert	
4	Irritable cry, consolable	Confused speech, disoriented, consolable	Disoriented	
3	Cries persistently to pain	Inappropriate words, inconsolable	Nonsensical speech	
2	Moans to pain	Incomprehensible, agitated	Moans, unintelligible	
1	No response	No response	No response	
	io.	MOTOR		
6	Normal, spontaneous movement	Normal, spontaneous movement	aneous Follows commands	
5	Withdraws to touch	Localizes pain	Localizes pain	
4	Withdraws to pain	Withdraws to pain	Withdraws to pain	
3	Decorticate flexion	Decorticate flexion	Decorticate flexion	
2	Decerebrate extension	Decerebrate extension	Decerebrate extension	
1	No response	No response	No response	

E - Everything else

- Environment
- SAMPLE
 - S Signs/Symptoms
 - A Allergies
 - M Medications
 - P Past medical history
 - L Last meal
 - E Events Leading Up To Present Illness

4 The state of the s

Normal values

Body weight estimation	(age+4) x2
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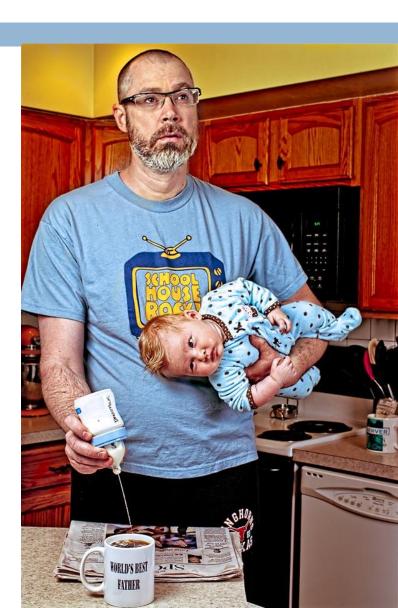
Normal values	neonate	1-5 yrs	6-14 yrs	adult
Respiratory rate	30	25	15-20	12
Heart rate	130	100	80-100	70
Systolic blood pressure				
(minimum)	60	70+(2	(xage)	90

Fluid bolus	20 ml/kg	
Adrenalin dose	0,1 ml/kg from 1:10000 solution	
Defibrillation energy	4 J/kg	
Cardioversion energy	1-2 J/kg	

Case 1.

 6 months old baby, acute dyspnoe when watching a football game with his dad. (They ate m&m's)

□ ∀ Ś



Assess severity

Effective cough

Encourage cough, reassess the child frequently Ineffective cough

Child is conscious: Administer 5 back blows followed by 5 thrusts Open the airway, 5 rescue breaths, start CPR









Case 2.

- □ 15 month old baby with fever, worsening dyspnoe.
- □ A : crying
- B: Resp. rate: 42/min, Increased breathing work, obstuctive lung sounds, prolonged exhaling, SpO2: 87%

Any intervention needed?



Case 2.



- 15 month old baby with low fever, worsening dyspnoe. <u>REASSESS!</u>
- □ A : still crying
- B: Resp. rate: 40/min, Increased breathing work, obstuctive lung sounds, prolonged exhaling, SpO2: 96%
- C: HR: 182/min (good peripheral pulse), BP: 78/40 Hgmm,
 CRT: 4 sec, cold hands, empty jugular veins
- Any intervention needed?
- Why do we have a C-problem? What is your diagnosis?

Case 3.

- 5-year-old, diarrhoea for 4 days, general malaise, started to vomit this day.
- □ A: speaks to you
- B: Resp. rate: 28/min, Nasal flaring, normal lung sounds, SpO2: 99%
- C: HR: 152/min (weak peripheral pulse), BP: 80/32 Hgmm,
 CRT: 4 sec, cold hands, empty jugular veins, no urine for 15 hours.

- Do we have a B-problem?
- Any intervention needed? What do you do after an intervention?



Take-home message

- Use ABCDE in critical situations
- □ sssABCDE:
 - □ 3,4,5 questions
- Reevaluation
- TREAT FIRST WHAT KILLS FIRST!