# **Medical Reference Cards**

github.com/alping/medical-reference-cards

### - General -

# **C-ABCDE**

# Catastrophic bleeding / Cardiac arrest

**Airways** Check airway Thorax movement See, listen, feel Paradox. breathing? Stridor?

- 1. Chin lift/Jaw thrust
- 2. Naso/Oropharyngeal airway
- 3. Suction
- 4. Laryngeal mask airway
- 5. Intubation
- 6. Coniotomy

# B Breathing Respiratory rate

Thorax movement Auscultation Cyanosis

- 1. Oxygen
- 2. Ventilation
- 3. Decompression
- 4. Chest tube

# Circulation Colour (Pale)

Cold/Sweaty Pulse (Rad / Fem / Car) Abdomen/Pelvis

- 1. Tilt bed
- 2. Fluids (PVC, IO, CVC)
- 3. Vasoactive drugs (Adrenalin IM)

### Disability AVPU/GCS

**Pupils** Movement of extrem.

- 1. Support ABC
- 2. Glucose
- Antidote

# Exposure Check whole body

Prevent hypothermia Prevent further injury

- 1. Log roll
- 2. Warm blankets
- 3. Warm fluids

# - General -SBAR

Situation Own name, title, and unit Patients name, sex, and age Patients social security / identification number Describe situation briefly I'm contacting you to ...

Background
Previous and current illness Relevant medical history **Allergies** Contagiousness

# Assessment

A: Airway

B: Breathing, saturation

C: Heart rate, blood pressure

D: Consciousness, pain, oriented to time / place / person

E: Temperature, skin, colour, abdomen, urine production

Brief assessment

Recommendation
Immediate action (Care, monitoring, transfer, treatment) Further examinations (Radiology)

Time frame (How often...? How long...? Next contact...?)

Confirmation of communication Questions / Agreement

### - Laboratory -

# Lab reference (Swe)

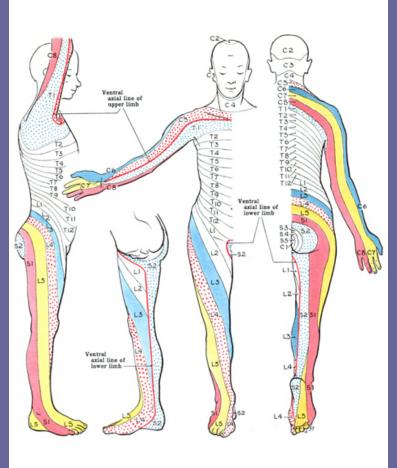
Sys.	Component	Subgroup	Ref. interval	Unit
P/S	ALAT	Male	0,15 – 1,1	µkat/L
		Female	0,15-0,75	μkat/L
P/S	ALP		0,60 - 1,8	μkat/L
P/S	Amylas		0,40 - 2,0	μkat/L
P/S	Albumin	18 – 40 y.	36 – 48	g/L
		41 – 70 y.	36 – 45	g/L
		>70 y.	34 – 45	g/L
P/S	ASAT	Male	0,25 - 0,75	µkat/L
		Female	0,25 - 0,60	µkat/L
P/S	Bilirubin		5 – 25	µmol/L
P/S	Calcium		2,15 - 2,50	mmol/L
P/S	СК	Male 18 – 50 y.	0,80 - 6,7	µkat/L
		Male >50 y.	0,70 - 4,7	µkat/L
		Female	0,60 - 3,5	µkat/L
P/S	Fosfat	Female	0,80 - 1,5	mmol/L
		Male 18 – 50 y.	0,70 - 1,6	mmol/L
		Male >50 y.	0,75 - 1,4	mmol/L
fP	Glukos		4,2-6,3	mmol/L
P/S	GT	Male 18 – 40 y.	0,15 - 1,3	µkat/L
		Male >40 y.	0,20 - 1,9	µkat/L
		Female 18 – 40 y.	0,15-0,75	µkat/L
		Female >40 y.	0,15 – 1,2	µkat/L
P/S	Järn		9 – 34	µmol/L
P/S	Järnmättnad	Male	0,15 - 0,60	
		Female 18 – 50 y.	0,10-0,50	
		Female >50 y.	0,15-0,50	
Р	Kalium		3,5-4,4	mmol/L
S	Kalium		3,6-4,6	mmol/L
P/S	Kolesterol	18 – 30 y.	2,9-6,1	mmol/L
		31 – 50 y.	3,3 - 6,9	mmol/L
		>50 y.	3,9 - 7,8	mmol/L
P/S	HDL-Kolesterol	Female	1,0 – 2,7	mmol/L
		Male	0,80 - 2,1	mmol/L

### - Laboratory -

# Lab reference (Swe)

Sys.	Component	Subgroup	Ref. interval	Unit
P/S	LDL-Kolesterol	18 – 30 y.	1,2 – 4,3	mmol/L
		31 – 50 y.	1,4 - 4,7	mmol/L
		>50 y.	2,0-5,3	mmol/L
P/S	Kreatinin	Male	60 – 105	μmol/L
		Female	45 – 90	μmol/L
P/S	LD	18 – 70 y.	1,8 - 3,4	µkat/L
		>70 y.	1,9 – 4,2	μkat/L
P/S	Magnesium		0,70 - 0,95	mmol/L
P/S	Natrium		137 – 145	mmol/L
P/S	Pankreasamylas		0,15 - 1,10	μkat/L
P/S	Protein		64 – 79	g/L
P/S	TIBC		47 – 80	μmol/L
P/S	Triglycerider		0,45 - 2,6	mmol/L
P/S	Urat	Male	230 – 480	μmol/L
		Female 18 – 50 y.	155 – 350	μmol/L
		Female >50 y.	155 – 400	μmol/L
P/S	Urea	Male 18 – 50 y.	3,2 - 8,1	mmol/L
		Male >50 y.	3,5 - 8,2	mmol/L
		Female 18 – 50 y.	2,6 - 6,4	mmol/L
		Female >50 y.	3,1 - 7,9	mmol/L
В	Hemoglobin	Female	117 – 153	g/L
		Male	134 – 170	g/L
В	EVF	Female	0,350 - 0,458	
		Male	0,393 - 0,501	
В	Erytrocyter	Female	3,94 - 5,16	1012/L
		Male	4,25 - 5,71	1012/L
В	MCV		82 – 98	fL
Erc	MCH		27,1 - 33,3	pg
Erc	MCHC		317 – 357	g/L
В	Leukocyter		3,5 - 8,8	109/L
В	Trombocyter	Female	165 – 387	109/L
		Male	145 – 348	109/L

# **Dermatomes**



# - Neurology - **Myotomes**

Segment	Function
C1/C2	Neck flexion/extension
С3	Neck lateral flexion
C4	Shoulder elevation
C5	Shoulder abduction
C6	Elbow flexion/wrist extension
<b>C</b> 7	Elbow extension/wrist flexion
C8	Finger flexion
T1	Finger abduction
L2	Hip flexion
L3	Knee extension
L4	Ankle dorsi-flexion
L5	Great toe extension
S1	Ankle plantar-flexion/ankle eversion/ hip extension
S2	Knee flexion
S3-S4	Anal wink

# Neurological exam.

### The whole time

Psychiatric: Wakefulness, oriented to time/place/self

Motor: Facial expressions, general

Dysarthria, dysphasia, right or left handed

Higher cortical functions: Apraxia, spatial function, neglect

### Standing

Walk across the room

Walk on toes/heels

Squat and rise

Sight and hearing

### Sitting

Face: Symmetry, ptos, corneal reflex

Pupils: Size, reaction to light

Eye movements: Nystagmus, diplopia

Sight: Donder's test

Mouth and throat: Symmetry, swallow reflex, gingival hyperplasia, cranial

nerve XII

Sensibility to light touch, vibration, temperature, and pain

Motoric function for cranial nerve V, VII, XI

Reflexes in arms and legs

Grasset's test

Auskultation of lungs

Palpate lymph nodes

(Smell and taste)

### Lying down

Neck stiffness

Muscle strength: proximal + distal, in arms and legs

Muscle tonus, atrophies, fasciculation, tremor,

Heel-knee test

Dysdiadochokinesis

Abdominal reflexes

Barré's test

Babinski's sign

Fundus examination

(Primitive reflexes: Grasping reflex, palmomental, glabellar, sucking)

## - Neurology -

# **Glasgow Coma Scale**

	Respone	Score
bu e	Spontaneously	4
Eye opening response	To speech	3
e op	To pain	2
	No response	1
	Oriented to time, place, and person	5
rbal Ise	Confused	4
Best verbal response	Inappropriate words	3
Bes	Incomprehensible sounds	2
	No response	1
	Obeys commands	6
<u>-</u>	Moves to localized pain	5
Best motor response	Flexion withdrawal from pain	4
est i esp	Abnormal flexion (decorticate)	3
Μ̈́	Abnormal extension (decerebrate)	2
	No response	1
<b>–</b> ø	Best response	15
Total score	Comatose patient	≤8
- ω	Totally unresponsive	3

### - Orthopedics -

# **Ottawa Ancle Rule**

### 1) Pain around the malleolus AND

 Palpation tenderness over the dorsal ridge of the lateral or medial malleus.

### **OR**

Inability of the foot to support four steps.

### 2) Pain around the mid part of the foot AND

 Palpation tenderness over the base of the 5<sup>th</sup> metatarsal bone OR the Navicular bone.

### **OR**

Inability of the foot to support four steps.

### X-ray of foot and lower leg if 1 or 2 are met

**Otherwise:** Elastic wrap, tape, possibly orthosis, information (proprioceptive exercise e.g. stand on one leg while brushing teeth)

**Acute care: PRICE** (Protection, Rest, Ice, Compression, Elevation

Only applicable on adults (>18 years) with isolated injury

### - Orthopedics -

# **DVT Score**

Sign	Point
Active cancer last 6 months	1p
Paralysis, paresis, newly casted	1p
Immobilized >3d or large surgery last 4w	1p
Localized tenderness along the deep venous system	1p
Whole leg swelling	1p
Calf circumference >3 cm compared to asymptomatic side	1p
Pitting oedema on symptomatic side	1p
Collateral flow in superficial veins (non-varicose)	1p
Similar likelihood of alternative diagnosis	-2p

Low points <2 + negative D-dimer = low probability for DVT

High points ≥2 → Ultrasound whole leg

Risk of false negative D-dimer when symptoms >1w or anticoagulation therapy

- Pediatrics -

# **Normal Physiology**

Age	RR (/min)	HR (/min)	SBP (mmhG)
0-1 m	30-60	110-160	65-90
1-12 m	30-40	110-160	70-90
1-2 y	25-35	100-150	85-35
2-5 y	25-30	95-140	80-110
5-12 y	20-25	80-120	90-110
>12 y	15-20	60-100	100-120

Age	♀ <b>W. (kg)</b>	♀ H. (cm)	♂ W. (kg)	♂ H. (cm)
0 m	2.8-4.2	46-54	2.9-4.4	47-55
3 m	4.6-7	56-64	4.8-7.5	57-66
6 m	6-9.3	62-71	6.4-10	63-73
1 y	8-12	70-80	8.5-13	71-82
5 y	15-25	102-120	15.5-25	110-112
18 y	46-80	156-180	55-94	167-194

Age (m)	1-2	2-4	4-6	6-8	8-10	10-12
W. gain (g/w)	175	150	125	100	75	50

	W. (kg)	Fluids (ml/kg/24h)
2-8		150
	6-10	115-120
 ناد	0-10	100
Holliday- Segar	10-20	50
¥"	>20	20

A. (y)	mi/kg/hour
0-1	2-4
>1	1-2
▲ Urine	e / Oliguri ▼
0-1	<1

### - Pediatrics -

# **Normal Physiology**

Months	Gross motor	Fine motor	Cogn. & Comm.
1-2	Lift head when prone	-	Smile in resp. to face/voice, visual preference for human face
2-3	Head steady in sitting	-	-
3-4	Lift head & chest w. ext. arms	Grasp rattle	Sustain contact, displeasure if soc. contact broken, "aah, ngah"
5-6	Roll over	Transfer objects hand to hand	Monosyllabic babble
6-7	Sit with support	-	Polysyllabic babble, vowel sounds, enjoys mirrors
7-8	Sit without support, crawl	Thumb- finger grasp	Suspicious/afraid of strangers
9-10	Pull to standing pos., walk holding furniture	Pincer grip, bang objects together.	Play peek-a-boo, wave bye-bye, respond to own name
12-18	Walk alone	Turn pages in book, scribble, build 2-cube tower	Speak a few words
4 yrs.	Walk on a straight line, jump on one leg	Button clothes	Answer questions, understand prepositions