### **Medical Reference Cards**

github.com/alping/medical-reference-cards

### **C-ABCDE**

### **SBAR**

# 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

### 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

1. Log roll

Prevent hypothermia Prevent further injury 2. Warm blankets

3. Warm fluids

### **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

# 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	CK	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

# 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

- Medicine -

### CHA2DS2VAS

С	Cardiac - Heart failure	1
Н	Hypertension	1
A	Age ≥ 75 years	2
D	Diabetes	1
S	Stroke/TIA/embolism	2
V	Vascular Atherosclerotic disease	1
A	Age 65-74	1
S	Sex - Female*	1

<sup>\*</sup>No indication for antithrombotic treatment if only risk factor

AF and score ≥2 → Antithrombotic treatment *IF* low-medium risk of bleeding (HAS-BLED <3)

See local guidelines for specific antithrombotic drugs

Example of initial Warfarin treatment, 2.5mgx1 p.o.

Day 1: 2-4 | Day 2: 2-3 | Day 3: 1-4 (dep. on INR)

### **HAS-BLED**

Н	Hypertension >160 mmHg	1
A	Abnormal liver or kidney function*	1-2
S	Stroke	1
В	Bleeding Previous tendency or anaemia	1
L	Labile INR High/unstable INR or <60% time in therapeutic range	1
E	Elderly, >65 years	1
D	Drugs e.g. ASA, NSAID or high alcohol consumption	1-2
	* Kidnov: Croatining >200 dialysis or transpla	nt

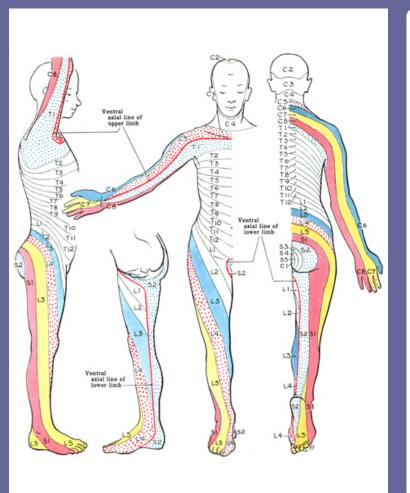
<sup>\*</sup> Kidney: Creatinine >200, dialysis, or transplant Liver: Chronic liver disease, Bilirubin 2x ref, or ALAT/ASAT/ALP 3x ref.

High risk of bleeding ≥3 points

### - Neurology -

# **Dermatomes**

# **Myotomes**



Segment	Function
C1/C2	Neck flexion/extension
С3	Neck lateral flexion
C4	Shoulder elevation
C5	Shoulder abduction
C6	Elbow flexion/wrist extension
<b>C7</b>	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
<b>S2</b>	Knee flexion
S3 <b>–</b> 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)

# **Glasgow Coma Scale**

	Respone	Score
Du e	Spontaneously	4
Eye opening response	To speech	3
e op	To pain	2
— Д.	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
o o	Moves to localized pain	5
note	Flexion withdrawal from pain	4
Best motor response	Abnormal flexion (decorticate)	3
Ψ.	Abnormal extension (decerebrate)	2
	No response	1
<b>–</b> o	Best response	15
Total score	Comatose patient	≤8
<b>—</b>	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

### **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	$ \stackrel{\cap}{\scriptstyle}$ W. (kg)	♀ 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)	A. (y) ml/kg/hour
	2-8	150	<b>0-1</b> 2-4
	6-10	115-120	<b>&gt;1</b> 1-2
<b>.</b>	0-10	100	<b>▲</b> Urine / Oliguri ▼
Holliday- Segar	10-20	50	<b>0-1</b> <1
¥"	>20	20	<b>&gt;1</b> <0.5

# **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