Medical Reference Cards

github.com/alping/medical-reference-cards

Adrenal Venous Sampling

Introduction: Primary aldosteronism (PA) is more common than previously thought. Up to 15% of all hypertension is due to PA. PA can be caused by bilateral or unilateral hyperplasia, an adenoma, or by mutations in genes coding for enzymes involved in aldosterone (AS) synthesis. Adrenal venous sampling (AVS) is a procedure used to diagnose the source of the excess aldosterone (i.e. whether it is uni- or bilateral). Why is this important? Because unilateral PA is treated surgically, whereas bilateral PA is managed medically. AVS is, by far, the most reliable way of establishing the source of excess AS.

The procedure: With AVS, the difference between left and right adrenal AS excretion is measured by sampling blood from each adrenal vein (AV). This is more complicated than it sounds, mostly for anatomical reasons. The right adrenal vein is very short and originates directly from the inferior vena cava (IVC), making it very difficult to cannulate. The left AV originates from a common trunk with the inferior phrenic vein (IPV), which, in turn, originates from the left renal vein. The common trunk is easier to cannulate than the left AV itself, but dilution from the IPV must then be compensated for when interpreting the AS level (in the common trunk, left AV blood is mixed with IPV blood, which obviously has a lower AS concentration).

- 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	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

- 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

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
- 3. Antidote

Exposure

Check whole body Prevent hypothermia Prevent further injury

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

- Medicine -

Atrial Fibrillation

Types

Paroxysmal spontaneous termination within 7 days

Persistent requires cardioversion to restore sinus rhythm

Permanent sinus rhythm cannot be restored

Treatment

Freq. control goal <110/min

T Bisoprolol 2.5-5 mg

T Digoxin 0.13-0.25 mg if heart failure

Rhythm control if symtomatic

Paroxysmal T flekainid (Tambocor) 50-100 mg x2

Persistent Electrical cardioversion

AF <48 h \rightarrow no anticoagulants needed AF >48 h \rightarrow anticoagulants > 3 weeks before procedure (alternative: TEE)

Anticoagulants If CHA_2DS_2 -VASc > 2

- 1. NOAK, ex. dabigatran (Pradaxa)
- 2. Warfarin (Waran)
- 3. Long-term treatment with LMH

- General -

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

A

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

- 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
V A		1 1

*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)

- Endocrinology -

Adrenal Venous Sampling

Execution: The **right AV**, **IVC**, and **left AV** are cannulated, and blood is sampled for analysis of **AS** and **cortisol** levels. The AVs are catheterized through the percutaneous femoral vein approach. Gentle contrast injections are used to verify the position of the catheter tip.

• Why is blood sampled from the IVC? Why is the cortisol level analyzed? Aren't we only interested in the AS levels? These questions are answered in the interpretation section.

Interpretation: Ultimately, we're interested in whether there's a significant difference between AS levels in the two adrenal veins. So why cannulate the IVC? Because comparing the right AV and IVC cortisol levels tells us whether or not the difficult cannulation was successful – the cortisol level should be ≥3 higher in the right AV. If this is the case, we can trust subsequent measurements.

Before AS levels are compared, we must account for dilution. This is done by dividing the AS level with the cortisol level in each AV – the ratio will be the same regardless of dilution. These **corrected** values (A/C ratios) are the ones used in the final comparison.

If the A/C ratio of one adrenal vein is ≥4 times higher than that of the other, the source of AS is unilateral and should be treated **surgically**.

- 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

- Medicine - NYHA

Mortality % (untreated) after 1 resp. 5 years

NYHA	Symptoms	1 y	5 y
ı	Impaired heart function without symptoms	5	20
II	Shortness of breath and fatigue only during strenuous exercise	10	30
III a	Shortness of breath and fatigue during light to medium exercise	25	60
III b	III a, and cannot walk >200m		e as 'a
IV	Shortness of breath and fatigue at rest. Often confined to bed.	50	80

New York Heart Association (NYHA) Functional Classification

Diagnostics modalities for heart failure (HF)

Heart ultrasound (confirms the diagnosis)

ECG (normal ECG speaks strongly against HF)

Plain film X-ray (heart/lung, to exclude other conditions)

NT-proBNP (if low + ok ECG, rules out HF w. high certainty)

Lab tests (Hb, Na, K, Crea., PK, B-glucose, TSH, CRP, iron)

- Neurology -

Neurological exam.

Higher cerebral functions

Wakefulness, oriented to time/place/self, comprehension, attention, spatial function, dysarthria, dysphasia, dyslexia, dyspraxia, neglect, amnesia, right or left handed

Standing

	Symmetry	Strength		
Б		Squat and rise		
Ë	Normal/Toes/Heels	Jump on one leg		
	Arm movements	Coordination		
>	Step length	Romberg's test		
	Turning	Finger nose test		
_				

Sensory: Visual acuity, hearing

Sitting

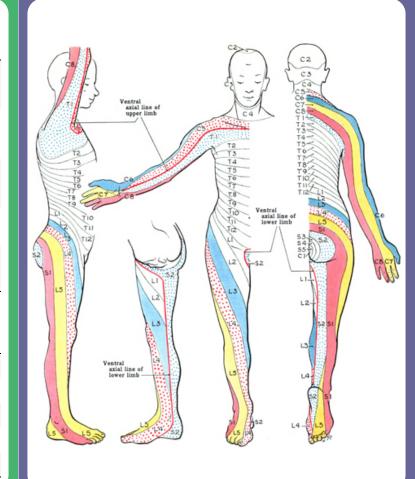
Oit	ung			
	Fundus examination (papillary stasis)		Symmetry	
s	Visual field (Donder's test)	Ð	Facial expressions	
Eyes	Movement (nystagmus, paresis, diplopia)	ဗ္ဗ	Sensibility	
Ш	Pupil (symmetry, size, reaction to light)	ш	Motor function	
	Corneal reflex		Ptosis	
	Muscle strength (arm/finger/shoulder)	_	Symmetry	
ests	Reflexes (brach.rad/bic/tric/patel./achill.)	主	Tongue motor function	
ĕ	Grasset's test	ě	Swallow reflex	
	Dysdiadochokinesis, finger play	~	Gingival hyperplasia	

Lying down

lm	portant: Neck stiffness		
	Strength – proximal, distal	>	Light touch
<u>e</u> s	Tonus* – hand/elbow/knee joint	Ī	Vibration
Muscles	Atrophies	sib	Temperature
₹	Fasciculation	en	Pain
_	Tremor	တ	Proprioception
	Heel-knee test	ă	Grasping reflex
Fests	Reverse Barré's test	reflex	Glabellar
ĕ	Straight leg raise	Prim.	Palmomental
·	Babinski's sign	4	Sucking

*Rigidity, gear phenomenon, spasticity

- Neurology - **Dermatomes**



- Obstetrics and Gynaecology -

Acute abdominal pain

Check vital signs, ABCDE
Lab: u-hCG, CRP, Hb, urinary dipstick
Gynaecological exam. and vaginal ultrasound (VU)

u-hCG positive

Spontaneous abortion: Localized pain over the uterus in combination with larger vaginal bleeding

Ectopic pregnancy (EctP): Localized pain over one side Occasionally minor vaginal bleeding Risk of intraabdominal haemorrhage

High probability of EctP if S-hCG does not double in 2 days or unable to find intrauterine pregnancy with VU when s-hCG >1000

u-hCG negative

Ovarian torsion: Acute onset of severe pain in intervals Often with cysts ≈ 5cm. Acute laparoscopic surgery

Rupture of cyst/Ovulation pain: Generalized pain in the lower abdomen (subsides within a few hours)

Infection: Pathological fluor/bleeding → Chlamydia sample + Wet smear. Doxycycline + Metronidazole

Endometriosis: Dysmenorrhea

Clinical diagnosis (laparoscopic verification if needed) Combined contraceptive hormone therapy (Neovletta/Prionelle), 2-4 menstruations/year

Non gynaecological: Appendicitis, urinary tract infection, gallstones

- Medicine -

Myotomes

Segment	Function
C1/C2	Neck flexion/extension
С3	Neck lateral flexion
C4	Shoulder elevation
C5	Shoulder abduction
C6	Elbow flexion/wrist extension
C7	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

- Obstetrics and Gynaecology -

Fever Post Partum

. <u>s</u>	Redness, tenderness, and increased heat, in a localized area. Palpable resistance. High fever. CRP↑				
Mastitis	Breast feeding (empty the breast) pump if needed Culture if wound Flukloxacillin (Heracillin) 1g x3 If abscess: Ultrasound drainage and culture.				
itis	Abd. pain. Tender uterus. Malodorous bloody discharge. CRP↑				
Endometritis	Cervical culture (streptococcus), blood culture Methergin + antibiotics: Within days: pip/tazo 4g x4 Late: amoxi/klav 500mg/125mg x3 + metronidazol 400mg x3 5-10d				
ndi	Redness, pus				
Wound	Wound culture Debridement				
nonia	Coughing, pleural pain				
Pneumonia	Clinical examination, X-ray if needed If uncomplicated: PcG				
ary inf.	Urinary urgency and tenderness over kidneys or bladder				
Urinary tract inf.	Urine culture Antibiotics, e.g. Selexid (CAVE Furadantin)				
osis	Signs of pulmonary embolus or DVT				
Thrombosis	Ultrasound legs Pulmonary CT if needed				
Swedish Bl	Swedish BESLUT = Bröst, Endometrit, Sårinfektion, Lunginflammation, Urinvägsinfektion, Trombos				

Heart Failure Treatment

NYHA	Treatment when EF <45%
ı	ACE inhibitor* If symptomatic oedema Diuretic
II	Beta-blocker (slow increase in dose) If EF <35% Aldosterone receptor antagonist If EF <35% and QRS >120 ms Assess need for CRT and/or ICD
III + IV	Advanced treatment/palliative care.

*If not toler	ated → Angiotens	in II receptor a	ntagonist, EF =	Ejection Fraction

Drug class	Example	Start (mg)	Target (mg)
ACE-Inhibitor	Enalapril	2.5 x 2	10-20 x 2
Diuretic	Furix	20 - 40	40 - 240
Beta-blocker	Bisoprolol	1.25 x 1	10 x 1
Aldosterone antagonist	Spironolakton	25 x 1	25-50 x 1
Angiotensin II antagonist	Candesartan	4-8 x 1	32 x 1

Acute heart failure (left ventricle)

Heart position

Oxygen (target SaO2 >90%) or CPAP if severe lung oedema

Furosemid (10 mg/ml 2-4 ml i.v.)

Nitroglycerin i.v. (0.25-0.5 mg) or

spray (0.4 mg) sublingually *if systolic BP* >100

- Neurology -

Glasgow Coma Scale

	Respone	Score
ng	Spontaneously	4
ons(To speech	3
Eye opening response	To pain	2
Д,	No response	1
	Oriented to time, place, and person	5
rbal Ise	Confused	4
Best verba response	Inappropriate words	3
Bes	Incomprehensible sounds	2
	No response	1
	Obeys commands	6
J (i)	Moves to localized pain	5
note onse	Flexion withdrawal from pain	4
Best motor response	Abnormal flexion (decorticate)	3
Ω.	Abnormal extension (decerebrate)	2
	No response	1
– φ	Best response	15
Total score	Comatose patient	≤8
— ഗ	Totally unresponsive	3

- Obstetrics and Gynaecology -

Bishop's index

0	1	2
Above or at pelvis entrance	Above spinae	At or below spinae
≤ 0,5	0,5< d <1,5	≥ 1,5
0	< 50	≥ 50
Firm	Medium	Soft
Posterior	Middle	Anterior
	Above or at pelvis entrance ≤ 0,5 0 Firm	Above or at pelvis entrance ≤ 0,5 0,5< d <1,5 0 < 50 Firm Medium Posterior Middle

Bishop's index is a modified Bishop's score

Score < 6 = Immature cervix →
High probability of long labour if induced

Techniques used to induce labour

Intravenous prostaglandin E₁ or E₂ (Cytotec)

Vaginal prostaglandin E2

Amniotomy

Intrauterine balloon putting pressure on the cervix

Oxytocin i.v. to potentiate contractions (Syntocinon)

Local guidelines on which method to use differ between hospitals

- Orthopaedics -

Distal Status - Hand

Inspection				
Hematomas / Wounds				
Malalignment / Tonus				
Palpation				
Fossa tabatière				
Distal radioulnar joint				
Circulation				
Allen's test – Ulnar / Radia	l loss of circulation			
Capillary refill Dig I-V				
Passive movement (tend	ons)			
Finger extension, each sep	parately			
Flexor digitorum superficila	is et profundus, separately			
Neurology 1.	Radialis 2. Medianus 3. Ulna	aris		
1. Dig I, radially 2. Dig II, distal of PIP 3. Dig V, ulnar side	Extension of fingers Opposition, Dig I & V F.spread / Dig V flex.	Motor		
Stability				
Dig I, MCP, UCL, Distal radioulnar joint				
Watson's test – Instability, scaphiodeum - lunatum				
Specific tests				
Tinel's and Phalen's tests: carpal tunnel syndrome				
Finkelstein's test: Morbus of	de Quervain			
Pain in wrist should resu	lt in plain film x-ray			

- Orthopaedics -

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 5th 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 exercises 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

- Paediatrics -

Developmental Milestones

Age (m)	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, 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 in a straight line, jump on one leg	Button clothes	Answer questions, understand prepositions

Well's DVT Score

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

- Paediatrics -

Reflexes

Primitive		Postural	
Moro		Labyrinthine rigthing	

Sudden extension of the head causes symmetrical extension, followed by flexion of the arms

Grasp

Flexion of fingers when an object in placed in the palm

Rooting

Head turns to the stimulus when touched near the mouth

Stepping response

Stepping movements when held vertically and dorsum of feet touch a surface

Assym. tonic neck reflex Lying supine, the infant adopts an outstretched arm to the side to which the head is turned

Head moves in opposite direction to which the body is tilted

Postural support

When held upright, legs take weight and may push up (bounce)

Lateral propping

In sitting, the arm extends on the side to which the child falls as a saving mechanism

Parachute

When suspended face down, the arms extend as though to save theme self

The primitive reflexes present at birth gradually disappears as postural reflexes develop, which are essential for independent sitting and walking

- Obstetrics and Gynaecology -

	Base HR	Base HR Variab		Decelerations	Contractions
	110-150	5-25		5-25 None	
Normal		≥2 a	cc/60 min	Uniform early	
Z				Variable uncompl. <30 s, <60 beats	
al*	100-110	<5 for >40 min, with no acc		Variable uncompl. 30-60 sec OR >60 beats	>5/10min
Abnormal*	150-170		>25		
¥	<100 for <3 min	<2 acc/60 min			
ji	>170	<5 for >60 min, with no acc		Variable complicated >60 sec	
Pathologic	<100 for >3min	Sinus	oidal pattern	Uniform late	
ш			Combined		
Prete	rminal No v	ariability	/ (<2/min) an	d no accelerations	
* ≥2 =	suspected patl	nological			
Acceleration			Increase in	heart rate of >15, for >	•15 s
Uniform deceleration			Shaped like	e a U	
Early			With the co	ntraction	
		Late	After the co	ntraction	
	Va	riable	Variable for	rm (see above table)	

- Orthopaedics -

- Empty -

- Paediatrics -

Nutrition

0-4 months
Breast milk or formula
4-6 months
Breast milk or formula
Start to introduce small amounts of vegetables, cereals
6-8 months
Breast milk or formula or gruel or cereals
Complete meal (potatoes, meat, vegetables, fruit, berries)
Cow's milk can be used in cooking, but not as a beverage
8-12 months
Two cooked meals a day
From 10-12 months of age milk as a beverage
1-2 years
1-2 years Regular food
•
Regular food
Regular food No low-fat products and/or high-fibre foods
Regular food No low-fat products and/or high-fibre foods Vitamin D supplement
Regular food No low-fat products and/or high-fibre foods Vitamin D supplement 5 drops every day (400 IE/day)
Regular food No low-fat products and/or high-fibre foods Vitamin D supplement 5 drops every day (400 IE/day) All children from 1 month up to at least 2 years of age
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Regular food No low-fat products and/or high-fibre foods Vitamin D supplement 5 drops every day (400 IE/day) All children from 1 month up to at least 2 years of age Low intake/sun exposure may need suppl. till school age Salt intake No extra salt added to food for children below 1 year

- Paediatrics - Vaccinations (Swe)

Age	Vaccination	Dose
3 m	Diphtheria, Tetanus, Pertussis, Polio, Hib, S. Pneumoniae	I
5 m	Diphtheria, Tetanus, Pertussis, Polio, Hib, S. Pneumoniae	II
12 m	Diphtheria, Tetanus, Pertussis, Polio, Hib, S. Pneumoniae	III
18 m	Measles, Mumps, Rubella	ı
5–6 y	Diphtheria, Tetanus, Pertussis, Polio	IV
6–8 y	Measles, Mumps, Rubella	II
10–12 y	HPV (girls born 1999 or later)	1,11,111
14–16 y	Diphtheria, Tetanus, Pertussis	V
patients	Hepatitis B x 3 Tuberculosis at 6 m before and during 2001 follow another schedule from 5-	• 6 years of age

- Paediatrics - Normal Physiology

Age	RR	(/min)	HF	R (/m	in)	SBP (n	nmHg)
0-1 m	30	- 60	11	0 - 1	60	65 -	90
1-12 m	30	- 40	11	0 - 1	60	70 -	90
1-2 չ	25	5 - 35	10	0 - 1	50	85 -	95
2-5 y	25	5 - 30	9	5 - 1	40	80 -	110
5-12 y	20	- 25	80	0 - 1	20	90 -	110
>12 y	15	5 - 20	60	0 - 1	00	100 -	120
Age	e ♀W.	(ka)	♀ H. (cm	Λ.	♂ W. (kg	ı\	Н. (cm)
0 m			46 - 54		2.9 - 4.4		7 - 55
3 m			56 - 64		4.8 - 7.5		7 - 66
6 m	_	-	62 - 71		6.4 - 10		3 - 73
1)			70 - 80		8.5 - 13		1 - 82
5 y			102 - 120		15.5 - 25		0 - 112
18 \			156 - 180		55 - 94		7 - 194
	_						
	Age (m)	1-2	2-4	4-6	6-8	8-10	10-12
W. ga	ain (g/w)	175	150	125	100	75	50
w	(kg) F	luida (A (14)		
***			nl/kg/24h)		A. (y)		g/hour
		50	_		0-1		
	·····	10 - 12				1-2	
ar ar	0-10 10					ne / Oli	guri ▼
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<0.5

Addiction

	Drug	Half-life	Equivalent dose (mg)
	Oxazepam (Sobril)	Short	15.0 - 25.0
ţ	Zopiklon / Zolpidem	Short / Short	7.5 / 10.0
leu	Nitrazepam (Mogadon)	Short	2.5
Equivalents	Lorazepam (Temesta)	Short	1.0
먎	Flunitrazepam	Short	0.5
	Alprazolam (Xobril)	Short	0.25-0.5
Benzo.	Triazolam (Halcion)	Short	0.25
B	Diazepam (Stesolid)	Long	5.0
	Klonazepam (Iktorivil)	Long	0.25

Principles for dose-lowering

>20

20

S	Change drug to equivalent dose of Oxazepam (Sobril)
pine	Split previous total daily dose into 5 evenly distributed doses over one day
aze	Decrease total daily dose by 10% per week
zodi	Start by reducing the middle-of-the-day dose, leave morning/evening till last
Benzodiazepines	Never increase the dose! If there is an increase of withdrawal symptoms, stay on the current dose until the symptoms have stabilised
	Change drug to equivalent dose of Kodein (Citodon)
	Split previous total daily dose into 5 evenly distributed doses over one day
qs	Decrease total daily dose by 20% / week
Opiods	Start by reducing the middle-of-the-day dose, leave morning/evening till last
ō	Never increase the dose! If there is an increase of withdrawal symptoms, stay on the current dose until the symptoms have stabilised
	When only 4 pills left, terminate treatment

- Paediatrics -

Physical examination

General condition / appearance

- Tiredness / Movement / Speech / Adeq. devel. for age / Temperature
- Pallor / Cyanosis / Icterus / Petechiae / Turgor

Head

- Size / Shape / Fontanelle (<8-12 months) / Sutures

Eyes and Ears

- Movement / Pupil size/reflex/ Red reflex / Squint / Sunset gaze

Mouth and Throat

- Cleft lip/palate / Teeth / Tongue / Tonsils / Sucking

Lymph nodes

- Neck / Axilla / Groin

Circulation

- Heart rate & rhythm / Murmurs / Capillary refill time / Femoral pulses

Respiration

- Resp. rate / Recessions / Nasal flaring / Wheezing / Crackling / Stridor

Neurology

- Spontaneous movement / Tonus / Neck stiffness / Babinski's sign
- Reflexes: Moro / Suck / Grasp

Abdomen

- Liver (<1 cm below costal ridge) / Kidneys / Spleen / Umbilicus

Genitalia

- Outer genitalia / Discharge / Testicles / Cremaster reflex

Hips

- Symmetry / Ortolani's test / Barlow's test / Abduction test (>60-70°)

Back: Entire spinal column and Anus

<2-3 months: supine position / otherwise in parents lap / Remember growth charts

- Pharmacology

- Empty -

- Paediatrics -

Apgar score

Apgar Sign	2	1	0
Heart Rate	>100/min	>100/min	Absent
Breathing Rate and effort	Cries well	Irregular	Absent
Grimace Responsiveness or reflex irritability	Pulls away, sneezes, coughs, or cries with stimulation	Facial movement only with stimulation	Absent
Activity Muscle tone	Active, spontaneous movement	Arms and legs flexed with little movement	No movement, floppy tone
Appearance Skin colouration	Normal colour (also hands and feet are pink)	Normal colour (but hands and feet are bluish)	Bluish-grey or pale all over

This test is done to determine whether a newborn needs help breathing or is having heart trouble

Normal Results: 7-10

10 is unusual, almost all newborns lose 1 point for blue hands and feet

Abnormal results: 0-6

Signals that the baby needs medical attention

Low Apgar score is often caused by:

Difficult birth, C-section, Fluid in the baby's airway

A baby with a low Apgar score may need:

- Oxygen and clearing out the airway to help with breathing
- Physical stimulation to get the heart beating at a healthy rate

Most of the time, a low score at 1 minute is near-normal by 5 minutes

A lower Apgar score does not mean a child will have serious or long-term health problems The Apgar score is not designed to predict the future health of the child

- Paediatrics -

Check-ups (Swe)

Age	Profession	Assessment/Action
0-10 d	Nurse	Home visit
2-8 w	Nurse	Growth assessment and counselling, once a week
6-8 w	Doctor, nurse	Psychomotor development
3 m	Nurse	Vaccination
3-5 m	Nurse	Growth assessment and counselling, every other week
5 m	Nurse	Vaccination
6 m	Doctor	Check-up
6-12 m	Nurse	Growth assessment and counselling, once a month
10/12 m	Doctor	Check-up
12 m	Nurse, dentist	Vaccination Dental health care information
18 m	Nurse	Vaccination
3 y	Nurse	Language development Child security information
4 y	Nurse	Vision, hearing, language, and psychomotor development Child security information
5.5 y	Doctor, nurse	Vaccination School assessment

Child security information