

SATS-N 4.0

Standardised emergency medicine assessment and prioritisation (triage) tool.

Version 4.0 – December 2019

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 - TEWS, baby 1–12 months
 - TEWS, children 1–3 years
 - o TEWS, children 4–6 years
 - TEWS, children 7–12 years
 - TEWS, adolescent 13–14 years

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1. Discriminator list, adults and children from the age of 15 years, version 4.0

Issue	RED	ORANGE	YELLOW
A Airways B Breathing	Allergic reaction; acute, AND stridor / dyspnoea or hypotensive / tachykard Airway at risk (ex. blockage, swelling, bleeding, injury) or intubated / assisted ventilaton ①	Allergic reaction; acute < 24 hours Dyspnea; acute ①	Dyspnea; moderate ①
C Circulation	Hemorrhage: Heavy and uncontrolled or heavy, vaginal in pregnant > 12 weeks (2) Cardiac arrest; current or resuscitated	Hemorrhage: Heavy, but controlled_or moderate, vaginal in pregnant ≥ 23 weeks ② Known adrenal failure and TEWS ≥ 3 ⑨	Hemorrhage: Moderate vaginal, in pregnant < week 23 Known adrenal failure and abdominal pain/nausea/vomiting (9)
D Consciousness Neurology	Unconscious ③ Stroke / TIA; symptoms < 6 hours or severe symptoms / neurological imparimentl < 24 hours④ Convulsions: current, or in pregnant, in labour or within two weeks after labour Suspected gas poisoning AND acute	Level of consciousness, reduced and TEWS ≥ 2 ⁽¹⁰⁾ Stroke/ TIA; symptoms 6 – 8 hours (4)	Level of consciousness, reduced and TEWS < 2 ⁽¹⁰⁾ Stroke/ TIA; symptoms 8 - 24 hours ⁽⁴⁾
	symptoms OR TEWS > 2 (5)	Intoxication or poisoning (1) Neurological deficit; acute (12)	Intoxication or poisoning > 6 hours since intake and TEWS < 2
E Injury	INJURY: Burn > 15 % or face/throat or inhalation, high voltage or circular injuries- see criteria of trauma footnote 7 Fracture with suspected vascular injury 6 Head trauma; with reduced GCS of 2 or more or abnormal pupils - see criteria of trauma footnote 7 Trauma, seriously injured patientt	INJURY: Fracture; compound or displaced. Luxated joint (13) Head trauma; see footnote (14) for classification of head trauma Abdominal trauma or abdominal pain in pregnant ≥ 23 weeks Eye injury, penetrating or caustic	INJURY: Fracture; diagnosed/suspected in ankle < 8 hours or femoral fracture close to the hip (13) Head trauma; see footnote (14) for classification of head trauma Abdominal trauma in pregnant, no pain
Pain	 PAIN: Chest pain with ST-elevation on EKG Abdominal pain; acute, strong and <u>constant</u> and/ or systolic BP < 90 and/or heart rate > 110 or pregnant - pain between contractions Abdominal pain, heavy, in woman that is/might be 	PAIN: Chest pain; current or changes in ECG or Suspicion of acute coronary syndrome (15) Headache: Hyper acute and intense (16) or headache and visual impairment, epigastric discomfort and increased BP in pregnant ≥ 20 weeks Pain, acute, heavy (17)	PAIN: Chest pain last 24 hours, currently pain free or respiratory chest pain (15) Pain; moderate (17)
Infection	pregnant and shows sign of circulatory failure Pain, acute, heavy, in scrotum < 10 hours INFECTION, suspected serious (8) and either: - at least two of: syst. BP \leq 100, RR \geq 22, change of mental status or - Patient with immune deficiency/chemotherapy and deviation in	 INFECTION, suspected serious (8) and either: TEWS ≥ 3 or Puerperal fever (tp > 38 °C for at least 2 of the first 14 days post-partum) 	INFECTION: Infection; suspected serious ⑧
Other	vital parameters or - Fever, headace, change in mental status, neck stiffness OTHER: Hypoglycemia; blood-glucose < 3 S-potassium > 6,5 and ECG changes	<u>OTHER:</u> Hyperglycemia; blood-glucose > 11 and RR ≥ 22 (18) S-potassium > 6,5 and normal ECG	<u>OTHER:</u> Hb < 7

2. Footnotes, adults and children from the age of 15 years, SATS-N version 4.

1

AIRWAY AT RISK / ASS VENTILATION / INTURATED and/or		MODERAT SHORTNESS OF BREATH
 DYSPNOEA with one or more of the following: Pronounced dyspnea at rest/during speech, unable to speak Cyanosis Reduced level of consciousness Gurgling respiration and, if relevant, frothy sputum Very tired/exhausted patient Little or no effect of treatment 	 Acute change (minutes/hours) from normal chronic condition. Dyspnea during speech Wheezing Use of accessory respiratory muscles 	 Dyspnea on exertion Is capable of speaking in complete sentences, no use of accessory respiratory muscles Subjective feeling of shortness of breath

(2) Hemorrhage can be caused by INJURY or DISEASE (such as esophageal varices, hematemesis/vomiting fresh blood, rectal hemorrhage, tonsillar hemorrhage). Patient with hemorrhage and sign of circulatory failure (elevated RR, tachycardia, hypotensive, affected level of consciousness) shall always have red priority level.

③ **Unconscious:** patient who is **unresponsive (U)**, or who only responds to pain (**P**), unable to perform motor actions on command. This applies regardless the cause of unconsciousness.

(4) **Stroke/TIA**; one or more of the following symptoms (B-FAST):

- B EYES EYE DEVIATION TOWARDS ONE SIDE F – FACE – FACIAL PARESIS
- A -ARM ARM AND/OR LEG PARALYSIS
- S SYN LOSS OF VISION IN ONE EYE/VISUAL FIELD LOSS
- T –TALE APHASIA OR SLURRED SPEECH

Symptoms can be either persistent or transient – the patient can be asymptomatic at examination. The priority level is assessed from the severity of the symptoms the patient had when medical emergency alarm.

Red priority if:		Orange priority if:	Yellow priority if:
•	Symptoms < 6 hours Pronounced symptoms/deficit such as eye deviation (B), paralysis in arm or/and leg (A) <i>or</i> aphasia/slurred speech/difficulty of speech (T) < 24 hours	 Moderate symptoms/deviations with a duration of 6 – 8 hours 	 Easy symptoms/deviations with a duration 8 – 24 hours

For patients with pronounced/serious symptoms the window for treatment can be up to 24 hours (thrombolysis < 4,5 timer, thrombectomy < 24 hours), while it for patients with easier symptoms is shorter (thrombolysis < 4,5 timer). This severity of the symptoms will because of this affect the priority level, but within 6 hours, the priority level shall always be red. The transition towards an orange or yellow priority level is fluent.

For patients who woke up with stroke symptoms/TIA (wake-up stroke), the limits are the same (from the time of wake-up). If in doubt of the priority level, always consult a neurologist.

Patients with symptoms of stroke/TIA shall have a direct transport to hospital.

- If the patient has:
- Eye deviation and at least one FAST symptom or
- Pronounced symptoms/deficit (high priority level) and more than 4,5 hours since symptom debut.

The patient shall have a transport to a centre that performs thrombectomy.

(5) **Gas poisoning:** most people will have symptoms immediately/short time after exposure, but there are exceptions, where symptoms occur after several hours. The symptoms can vary and come from different organs (eyes, upper respiratory tract, lungs, heart, skin, CNS, abdomen/intestines). Check the Norwegian national guidelines for treatment of CBRNE – incidents with personal injury, chapter 3: https://helsedirektoratet.no/Lists/Publikasjoner/Attachments/1346/IS-

2593%20Nasjonal%20faglig%20retningslinje%20for%20håndtering%20av%20CBRNE-hendelser%20med%20personskade.pdf

6 Fracture with suspected vascular injury – signs of distal ischemia distal to the site of injury: PAIN – PALE/POORLY PERFUSED SKIN – REDUSED or ABSENT SENSATION – NO PULSE. An unstable pelvic fracture is by definition a suspected vascular injury.

(7)Trauma – criteria for trauma team activation (Norwegian National trauma plan 2016, https://traumeplan.no/index.php?action=showtopic&topic=mxkjMqkD)

Criteria for trauma team activation (Norwegian National trauma plan):



(8) Infection, suspected serious, include infection, includes infection of the airways, abdomen, urogenital system, soft tissue, CNS and infection with unknown focus.

(9) Adrenal failure – in patients with a known adrenal insufficiency, an acute illness or stress can experience acute adrenal failure – Addison's crisis. Symptoms might be dehydration, nausea, vomiting, abdominal pain, hypotension, fever

(1) Reduced level of consciousness is a patient who is somnolent/confuse, but who responds to vocal stimuli: (V)

(1) Intoxication: tablet intoxication the last six hours (with or without symptoms), contact medical attention or call the Norwegian poison information Centre (Giftinformasjonssentralen) (tlf. 22 59 13 00) for advice about upgrading to RED priority level.

(12) Neurological deficits:

- Loss of sensation or movement following trauma, see trauma criteria in footnote 7.
- Loss of sensation or movement in cancer patient/suspected spinal cord lesion
- Back pain with paralysis and distal loss of sensation in the legs, urinary retention and/or fecal incontinence, loss of sensation in and around the genitalia, anus and the buttocks and inner thighs (saddle block anesthesia)

(3) Fractures and luxations: major displacements, luxated joints and compound fractures gives an orange priority level

- Suspected femoral fracture symptoms: ROTATIONAL DISPLACEMENT, ANGULATION, SHORTENING, or PATHOLOGICAL MOVEMENT. PAIN OVER THE FRACTURE, i.e. no pain in the groin areas as with hip fractures. Such fractures can cause significant hemorrhage (1-2 liters), and result in swelling of the soft tissues.
- **Hip fracture:** If a patient has and **fallen**, has **groin pain** and an **externally rotated and shortened leg**, there is reason to suspect a hip fracture (**not** to be assigned to orange priority despite displacement).

(14) Head trauma AND:

GCS ≤ 13 – see criteria for	GCS 14 – 15 and 1 of following:	GCS 14 – 15	GCS 15 and no risk factors
trauma team activation,			
footnote 7	Posttraumatic epileptic seizure	 Patient > 65 years on 	
	Focal neurological deficit	anticoagulation therapy ²	
or	Clinical sign of skull fracture	GCS 14 and no risk factors	
	Shunt treatment for		
	hydrocephalus	GCS 15 and 1 of the following:	
	• Anticoagulation therapy ¹		
pupillary abnormalities	Coagulation disorder	 suspected/confirmed loss of 	
		consciousness	
		 repeated vomiting 	

Note! Head injury in children under 18 years shall be assessed using SATS Norge version 4.0 CHILDREN, footnote 15

(15) Chest pain:

If chest pain and one or more of: radiating / shortness of breath / cold sweat / clammy / pale / vomiting, upgrade priority level to RED.

If chest pain and syncope / paralysis / ischemia of the extremities (NB! dissecting aortic aneurysm), upgrade priority level to RED.

(b) Headache – hyper acute and intense – out of the blue – reason to suspect subarachnoid hemorrhage.

(17) Pain:

Acute and heavy pain: the worst pain the patient has ever experienced (almost unbearable). Often accompanied by symptoms such as paleness, sweaty skin, distressed patient and altered level of	Moderate pain: Intense pain, but bearable. The pain affects normal activities. No need for acute pain relief.	Mild pain: Pain, but these do not affect normal activities.
consciousness (Patient assessment: NRS 8 – 10)	(Patient assessment: NRS 4 – 7)	(Patient assessment: NRS 1 - 3)

(⑧ Hyperglycemia: Blood glucose level > 11 and elevated RR ≥ 22 are reasons to suspect ketoacidosis (particularly in diabetes type 1 patient).

¹ For example: warfarin, NOAKs (dabigatran, rivaroksaban, apiksiban)

² For example acetylsalisylic acid, dipyridamol, clopidogrel

3. Discriminator list, children under 15 years of age, SATS-N version 4.0

Issue	RED	ORANGE	YELLOW
A Airways B Breathing	Allergic reaction; acute, AND stridor / dyspnea or hypotensive / tachycardia Airway at risk (ex. blockage, swelling, bleeding, injury) or intubated / assisted ventilation ①	Allergic reaction; acute < 24 hours	Durante (1)
	apnoea (1)		Dyspnea; moderate (1)
C Circulation	Hemorrhage: Heavy and uncontrolled ② Cyanosis, central (SpO2< 90%) Cardiac arrest; current or resuscitated	Hemorrhage: Heavy, but controlled 2 Dehydration; No urine last 12 hours 1	Dehydration; small urine output last 24 hours (1) Vomiting or diarrhea , persistent (1)
D Consciousness Neurology	Unconscious ④ Stroke / TIA; symptoms < 6 hours or severe symptoms / neurological impairment < 24 hours ⑤ Convulsions: current Suspected gas poisoning AND acute symptoms OR TEWS > 2 ⑥	Level of consciousness, reduced 4 Stroke/ TIA; symptoms 6 – 8 hours 5 Intoxication <i>or</i> poisoning 1 Neurological deficit; acute 1	Stroke/ TIA; symptoms 8 - 24 hours (5) Convulsions: currently alert
E Injury	INJURY: Burn > 10 % or face/throat or inhalation, high voltage or circular injuries- see criteria of trauma footnote (8) Fracture with suspected vascular injury (7) Head trauma; with reduced GCS of 2 or more or abnormal pupils - see criteria of trauma footnote (7) Trauma, seriously injured patient (8)	INJURY: Battery; swallowed Fracture; compound or displaced. Luxated joint (4) Head trauma; see footnote (15) for classification of head trauma Eye injury, penetrating or caustic	INJURY: Fracture; compound Head trauma; see footnote (15) for classification of head trauma
Pain	PAIN: Pain, acute, heavy, in scrotum < 10 hours	PAIN: Chest pain; current Headache: Hyper acute and intense (7) Pain; acute, heavy, or inconsolable	PAIN: Pain; moderate 18
Infection Other	INFECTION, suspected serious (9) and either: • TEWS ≥ 3 or • Limp or irritable, reduced level of consciousness, neck stiffness Fever ≥ 38,1 °C in neutropenic, immune deficient, or baby < 3 months (10)		
	OTHER: Hypoglycemia; blood-glucose < 3	OTHER:Hyperglycemia; blood-glucose > 11and deep and rapid RR (19)	OTHER: Baby < 2 months

4. Footnotes, children under 15 years of age, SATS-N version 4.0

1 Airway at risk/ assisted ventilation / intubated/labored respiration

AIRWAY AT RISK / ASSISTED VENTILATION / INTUBATED and/or LABOURED	SHORTNESS OF BREATH: SOMEWHAT			
RESPIRATION ; severe labor/obstructive and one or more of following:	LABOURED/OBSTRUCTIVE			
 Apnea (episodes of cessation of breathing) Severe inspiratory and/or expiratory stridor Obstructive with significantly forced exhalations (wheezing, drawn-out expiration) Severe retractions or significant use of accessory respiratory muscles Tired and exhausted, too tired to speak, cry or resist Dyspnoea during speech 	 Slight inspiratory stridor Panting or obstructive with somewhat forced exhalation (wheezing, drawn-out expiration) Slight retractions Good general state of health, resists 			
 2 Hemorrhage can be caused by INJURY or DISEASE (such as esophageal varices, hematemesis/vomiting fresh blood, rectal hemorrhage, tonsillar hemorrhage). Patient with hemorrhage and sign of circulatory failure (elevated RR, tachycardia, hypotensive, affected level of consciousness) shall always have red priority level. 3 Cyanosis, central – in case of a blue/cyanotic child, suspect congenital heart defect or severe circulatory failure/oxygenation failure 				
④ Unconscious; patient who is unresponsive to vocal or pain stimuli (U), and is unable to perform motor actions on command. This applies regardless the cause of unconsciousness. Reduced level of consciousness/limp: Patient who is drowsy, limp or irritable, but who responds to touch/vocal stimuli.				
 Stroke/TIA; one or more of the following symptoms (B-FAST): B - EYES - EYE DEVIATION TOWARDS ONE SIDE F - FACE -FACIAL PARESIS A -ARM - ARM AND/OR LEG PARALYSIS S - SYN - LOSS OF VISION IN ONE EYE/VISUAL FIFLD LOSS 	Symptoms can be either persistent or transient – the patient can be asymptomatic at examination. The priority level is assessed from the severity of the symptoms the patient had when medical emergency alarm.			

	•
T –TALE – APHASIA	OR SLURRED SPEECH

Red priority if:	Orange priority if:	Yellow priority if:	
 Symptoms < 6 hours Pronounced symptoms/deficit such as eye deviation (B), paralysis in arm or/and leg (A) <i>or</i> aphasia/slurred speech/difficulty of speech (T) < 24 hours 	 Moderate symptoms/deviations with a duration of 6 – 8 hours 	 Easy symptoms/deviations with a duration 8 – 24 hours 	

For patients with pronounced/serious symptoms the window for treatment can be up to 24 hours (thrombolysis < 4,5 timer, thrombectomy < 24 hours), while it for patients with easier symptoms is shorter (thrombolysis < 4,5 timer). This severity of the symptoms will because of this affect the priority level, but within 6 hours, the priority level shall always be red. The transition towards an orange or yellow priority level is fluent.

For patients who woke up with stroke symptoms/TIA (wake-up stroke), the limits are the same (from the time of wake-up). If in doubt of the priority level, always consult a neurologist.

Patients with symptoms of stroke/TIA shall have a direct transport to hospital.

- If the patient has:
 - Eye deviation and at least one FAST symptom
 - or
 - Pronounced symptoms/deficit (high priority level) and more than 4,5 hours since symptom debut.

The patient shall have a transport to a centre that performs thrombectomies.

(6) Gas poisoning: most people will have symptoms immediately/short time after exposure, but there are exceptions, where symptoms occur after several hours. The symptoms can vary and come from different organs (eyes, upper respiratory thract, lungs, heart, skin, CNS, abdomen/intestines).

Check the Norwegian national guidelines for treatment of CBRNE – incidents with personal injury, chapter 3: https://helsedirektoratet.no/Lists/Publikasjoner/Attachments/1346/IS-2593%20Nasjonal%20faglig%20retningslinje%20for%20handtering%20av%20CBRNE-hendelser%20med%20personskade.pdf

(7) Fracture with suspected vascular injury – signs of distal ischemia distal to the site of injury: PAIN – PALE/POORLY PERFUSED SKIN – REDUSED or ABSENT SENSATION – NO PULSE. An unstable pelvic fracture is by definition a suspected vascular injury.

(8) **Trauma** – criteria for trauma team activation (Norwegian National trauma plan 2016, <u>https://traumeplan.no/index.php?action=showtopic&topic=mxkjMqkD</u>)

Criteria for trauma team activation (Norwegian National trauma plan):



(9) Infection, suspected serious, include infection, includes infection of the airways, abdomen, urogenital system, soft tissue, CNS and infection with unknown focus.

(1) Fever in neutropenia or immunocompromised or baby < 3 months

- Baby under 3 months may have septicemia. **NB!** If the baby is older than 4 weeks from estimated term date and have a significant upper air ways infection or bronchiolitis, it shall not be prioritized from this symptom in the discriminators list.
- Fever in neutropenia (neutrophile granulocytes < 0,5), or immunocompromised often in a cancer patient or patient undergoing immunocomprised treatment these patients have an increased risk of rapidly developing septicemia.

(1) **Dehydration, vomiting or diarrhea:** persistent vomiting or diarrhea increases the risk of severe dehydration. Check the child's urinary output and assess the priority level due to *Dehydration: no urine last 12 hours* or *Dehydration: low urinary output last 24 hours* (less than to wet diapers or two times to the toilet to urinate for the last 24 hours).

(1) Intoxication: call the Norwegian poison information Centre (Giftinformasjonssentralen), telephone 22 59 13 00, for advice on priority level after intake of medicines, plants, chemicals or other potentially poisonous substance.

(13) Neurological deficits:

- Loss of sensation or movement following trauma, see trauma criteria in footnote 8.
- Loss of sensation or movement in cancer patient/suspected spinal cord lesion
- Back pain with paralysis and distal loss of sensation in the legs, urinary retention and/or fecal incontinence, loss of sensation in and around the genitalia, anus and the buttocks and inner thighs (saddle block anesthesia)

(4) Fractures and luxations: major displacements, luxated joints and compound fractures give an orange priority level

 Suspected femoral fracture – symptoms: ROTATIONAL DISPLACEMENT, ANGULATION, SHORTENING, or PATHOLOGICAL MOVEMENT. PAIN OVER THE FRACTURE, i.e. no pain in the groin areas as with hip fractures. Such fractures can cause significant hemorrhage (1-2 liters), and result in swelling of the soft tissues.

15 Head trauma AND:

GCS ≤ 13 – see criteria	GCS 14 – 15 and at least 1 of following:	GCS 14	or	GCS 15 and no
for trauma team				risk factors
activation, footnote 7	Posttraumatic seizures	GCS 15 and at least 1 of follo	wing:	
	Focal neurological deicitl			
	Clinical sign of skull fracture or	 Suspected/confirmed lo 	ss of consciousness <	
or	depressed fracture	1 minute		
	Loss of consciousness> 1 minute	Posttraumatic amnesia		
	Patient on anticoagulation	 Severe/increasing heada 	ache	
	therapy ³	 Hydrocephalus with shu 	nt treatment	
pupillary abnormalities	Coagulation disorder ⁴	Abnormal behavior (acc	ording to	
		parents/family)		
		 Ifs under 2 years: 		
		 Large hemorrh 	nage (hematoma) in	
		temple or crov	wn	
		 Irritability 		

NB! This footnote applies for children up to 17 years only.

(6) Chest pain: If STEMI (ST-elevation infarction) or heart rate > 200 \rightarrow RED priority level. See SATS Norge 4.0 for adults.

(17) Headache – hyper acute and intense – out of the blue – reason to suspect subarachnoid haemorrhage

(18) Pain:

Acute and heavy pain: Includes acute pain of any reason, included severe abdominal pain/acute abdomen. The worst pain the patient has ever experienced (almost unbearable). Often accompanied by symptoms such as paleness, sweaty skin, distressed patient and altered level of consciousness.	Moderate pain: Intense pain, but bearable. The pain affects normal activities. No need for acute pain relief.	Mild pain: Pain, but these do not affect normal activities.	
(Patient assessment: NRS 8 – 10)	(Patient assessment: NRS 4 – 7)	(Patient assessment: NRS 1 - 3)	

(9) Hyperglycaemia: Blood glucose level > 11 and dep and/or elevated RR are reasons to suspect ketoacidosis (particularly in diabetes type 1 patient).

³ For example: marevan, acetylsalicylic acid, NOAKs, heparin, different platelet inhibitors (plavix, persantin etc)

⁴ Condition which leads to increased risk of haemorrhage

5. TEWS, Adults and children ≥ 15 years

TEWS Adults	3	2	1	0	1	2	3
Resp. rate		< 9	9–11	12–21		22–29	≥ 30
SpO ₂	< 90% with O ₂	≥ 90% with O₂	< 95 % without O ₂	≥ 95% without O ₂			
Heart rate		< 41	41–50	51–90	91–110	111–129	≥ 130
Syst. BP	< 71	71–80	81–100	101–199		Above 199	
AVPU		Confusion, new		A: Alert	V: Responds to voice	P: Responds to pain	U: Unresponsive
Temp.		Cold or < 36		36°–38°	38.1°–39°	≥ 39.1°	
Injury				No	Yes		
Mobility?*				Yes	No		

*is capable of walking unaided, walking with support or with crutches/walking frame

6. TEWS - newborn to 14 years of age, SATS-N

- \circ TEWS, newborn < 1 month
- \circ TEWS, baby 1–12 months
- \circ $\;$ TEWS, children 1–3 years $\;$
- TEWS, children 4–6 years
- TEWS, children 7–12 years
- TEWS, adolescent 13–14 years

TEWS < 1 mth	3	2	1	0	1	2	3
Resp. rate	< 25		25–39	40–55	56–64	65–79	≥ 80
SpO ₂	< 90% with O ₂	> 90% with O ₂	< 95 % without O ₂	<u>></u> 95% without O ₂			
Heart rate	< 85		85–99	100–160	161–169	170–189	≥ 190
Capillary refill time				1–2 sec.	3 sec.		≥ 4 sec.
AVPU				A: Alert, normal contact	V: Reacts to voice	P: Reacts to pain	U: Unresponsive
Temp.		Cold or < 36°		36°–38°		≥ 38.1°	
Mobility				Normal for age		Unable to move as normal	

TEWS, newborn < 1 month

TEWS, baby 1–12 months

TEWS 1–12 mths	3	2	1	0	1	2	3
Resp. rate	< 20		20–34	35–45	46–54	55–69	≥ 70
SpO ₂	< 90% with O ₂	> 90% with O ₂	< 95 % without O ₂	<u>></u> 95% without O ₂			
Heart rate	< 80		80–99	100–160	161–169	170–189	≥ 190
Capillary refill time				1–2 sec.	3 sec.		≥ 4 sec.
AVPU				A: Alert, normal contact	V: Reacts to voice	P : Reacts to pain	U: Unresponsive
Temp.		Cold or < 36°		36°–38°	38.1°–39°	≥ 39.1°	
Mobility				Normal for age		Unable to move as normal	

TEWS, children 1–3 years

TEWS 1–3 yrs	3	2	1	0	1	2	3
Resp. rate	< 20		20–24	25–35	36–44	45–59	≥ 60
SpO ₂	< 90% with O ₂	> 90% with O ₂	< 95 % without O ₂	≥ 95% without O ₂			
Heart rate	< 70		70–89	90–130	131–139	140–159	≥ 160
Capillary refill time				1–2 sec.	3 sec.		≥ 4 sec.
AVPU		Acute confusion		A: Alert, normal contact	V: Reacts to voice	P: Reacts to pain	U: Unresponsive
Temp.		Cold or < 36°		36°–38°	38.1°–39°	≥ 39.1°	
Mobility				Normal for age		Unable to move as normal	

TEWS, children 4–6 years

TEWS 4–6 yrs	3	2	1	0	1	2	3
Resp. rate	< 15		15–19	20–24	25–29	30–44	≥ 45
SpO ₂	< 90% with O ₂	> 90% with O ₂	< 95 % without O ₂	≥ 95% without O ₂			
Heart rate	< 60		60–69	70–120	121–129	130–149	≥ 150
Capillary refill time				1–2 sec.	3 sec.		≥ 4 sec.
AVPU		Acute confusion		A: Alert, normal contact	V: Reacts to voice	P: Reacts to pain	U: Unresponsive
Temp.		Cold or < 36°		36°–38°	38.1°–39°	≥ 39.1°	
Mobility				Normal for age		Unable to walk as normal	

TEWS, children 7–12 years

TEWS 7–12 yrs	3	2	1	0	1	2	3
Resp. rate	< 14		14–18	19–22	23–29	30–39	≥ 40
SpO ₂	< 90% with O ₂	> 90% with O ₂	< 95 % without O ₂	<u>></u> 95% without O ₂			
Heart rate	< 60		60–69	70–110	111–119	120–139	≥ 140
Capillary refill time				1–2 sec.	3 sec.		≥ 4 sec.
AVPU		Acute confusion		A: Alert, normal contact	V: Reacts to voice	P: Reacts to pain	U: Unresponsive
Temp.		Cold or < 36°		36°–38°	38.1°–39°	≥ 39.1°	
Mobility				Normal for age		Unable to walk as normal	

TEWS, adolescent 13–14 years

TEWS 13–14 yrs	3	2	1	0	1	2	3
Resp. rate	< 9		9–13	14–19		20–29	≥ 30
SpO ₂	< 90% with O ₂	> 90% with O ₂	< 95 % without O ₂	<u>></u> 95% without O ₂			
Heart rate	< 45		45–54	55–95	96–114	115–129	≥ 130
Syst. BP	≥ 70	71–80	81–100	101–179		≥ 180	
AVPU		Acute confusion		A: Alert, normal contact	V: Reacts to voice	P: Reacts to pain	U: Unresponsive
Temp.		Cold or < 36°		36°–38°	38.1°–39°	≥ 39.1°	
Mobility				Normal for age		Unable to walk as normal	