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Date	September, 2024
Purpose	To ensure a consistent procedural approach to undertaking QAS Adult Deterioration Assessment.
Scope	Applies to Queensland Ambulance Service (QAS) clinical staff.
Health care setting	Pre-hospital assessment and treatment.
Population	Applies to patients ≥ 16 years of age.
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# QAS Adult Deterioration Assessment

Clinical deterioration is an acute medical event that is characterised by an unexpected change in a patient's baseline physiological status, resulting in haemodynamic instability and/or cognitive decline.[1] Failure to recognise and appropriately respond to clinical deterioration is an emergent risk to patient safety and is recognised as one of the leading causes of preventable in-hospital death.[2]

The Queensland Adult Deterioration Detection System (Q-ADDS) is a validated vital sign observation chart that is currently used at all public hospitals in Queensland. [3] Briefly, the chart assigns a numerical value to each of the patient's vital signs, with these individual numbers then combined to calculate the patient's total score. If this score reaches a predetermined threshold, the patient must be escalated for immediate review.

In collaboration with Queensland Health, an adapted version of the Q-ADDS form has been developed to assist ambulance clinicians in monitoring patients that are delayed offloading at public Emergency Departments. This tool is designed to identify clinical deterioration and provide a clear escalation process for clinicians to follow in instances that this occurs.

 All patients aged ≥ 16 years that are delayed offloading at a Queensland Health hospital facility.

- Patients that are immediately offloaded
- Patients that are delayed offloading at private hospital facilities
- Patients aged < 16

INCONTROLLED WHEN PRINTE!

• Nil in this setting

### **Procedure** – QAS Adult Deterioration Assessment

- 1. Determine the Australasian Triage Scale (ATS) category the patient has been allocated by asking the triage nurse.
- 2. As directed, proceed to the designated QAS waiting area and collect a hospital printed A3 QAS Q-ADDS form.
- 3. In the space provided on page one, affix the patient's identification label.
- In the space provided on **page two**, record the patient's ATS category.
- In the relevant spaces on **page two**, record the following vital signs by placing a dot (•) in the appropriate box:
  - Respiratory rate
  - Oxygen saturation
  - Oxygen flow rate (if on supplementary oxygen)
  - Systolic blood pressure
  - Heart rate
  - Cardiac rhythm (if clinically indicated)
  - Pain score
  - **Temperature**
  - Behaviour and consciousness
- 6. Use the Q-ADDS Score Legend to assign a score of **O-E** for each individual vital sign.
- 7. Add all of the individual scores together to calculate the patients Total Q-ADDS Score.

- 8. If the Total Q-ADDS Score is ≥ 3, notify a relevant Emergency Department clinician (i.e., Triage Nurse or Nursing Team Leader) and request the patient be clinically reviewed.
- 9. If an **E** score is recorded in any field, immediately initiate an Emergency Call to any hospital personnel and provide advanced life support interventions.
- 10. On page three, identify if the patient presents with any 'criteria of concern' and/or meets the 'could it be sepsis?' metrics. If either of these criteria are met, notify a relevant Emergency Department clinician (i.e., Triage Nurse or Nursing Team Leader) and request the patient be clinically reviewed.
- 11. If clinically indicated, document the neurological status and blood glucose level on page four. If the Glasgow Coma Score of the patient falls by  $\geq 2$  points, immediately initiate an Emergency Call to any hospital personnel and provide advanced life support interventions.
- 12. Repeat steps 5-11 at the following intervals until the patient is offloaded:
  - a. Patients allocated an ATS category 1-2 must be reassessed every **10 minutes**. If delayed > 1 hour, request the patient be clinically reviewed by relevant Emergency Department clinician or contact the QAS Clinical Hub (1300 315 218 option 3) to discuss modifying the frequency of observations.
  - b. Patients allocated an ATS category 3-5 must be reassessed every 30 minutes.

# **Procedure** – QAS Adult Deterioration Assessment

- 13. If the patient has been delayed for > 1 hour and meets **all** of the following criteria, request the patient be clinically reviewed for potential off-load:
  - Total Q-ADDS Score = 0
  - Clinical Frailty Score < 3</li>
  - ATS Category 3–5
- Upon clinical handover, complete the Q-ADDS Review procedure within the patients Digital Ambulance Report Form (DARF).
   Additionally, a photo of page 2 of the Q-ADDS must be captured as a clinical image.

# Additional information

- There is no requirement to document the patients' vital signs within DARF following hospital triage as they are recorded within the Q-ADDS form.
- The frequency of observations mandated in the Q-ADDS form were adopted from the College of Emergency Nursing Australasia and Australia College for Emergency Medicine joint statement on Vital Signs Monitoring in Emergency Departments.<sup>[4]</sup>
- In instances where there are delays in offloading a patient at a healthcare facility, ambulance clinicians have a continuing responsibility to ensure patient safety.



## Additional information (cont.)

- While the overall primacy of care transitions to the healthcare facility upon triage, ambulance clinicians must adhere to the following principles while awaiting offloading:
  - a. The administration of medications or provision other clinical interventions must be undertaken if clinically required. This should occur in consultation and collaboration with medical/ nursing staff.
  - b. The physical needs and personal cares of patients must be closely monitored. This includes holistic cares such as the prevention of pressure related injuries, toiletry requirements and ensuring access to food and water (if clinically appropriate).
- This CPP has been informed by the Australia Commission on Safety and Quality in Health Care National Consensus Statement on recognising and responding to acute deterioration.
- The supply and availability of Q-ADDS forms at hospital are managed at a local level with oversight from the District Director.

Facility:

		(Affix identification label here)
f	URN:	
nd	Family name:	
on	Given name(s):	
	Address:	

Given name(s):			
Address:			
Date of birth:	Sex:	$\square$ M	

### **General Instructions**

This form must be completed for all adult patients (>16 years) that are not immediately off-loaded at a Queensland Health Facility

To complete the form, follow the instructions below.

- 1. Record the patient's vital signs as clinically appropriate to their ATS category. Using the Q-ADDS Score legend, assign a score of 0-E for each individual vital sign. Add the individual scores together to calculate the patients Total Q-ADDS Score. The Total Q-ADDS Score = Respiratory Rate + O<sub>2</sub> Saturation + O<sub>2</sub> Flow Rate + Systolic Blood Pressure + Heart Rate + Temperature + Behaviour and Consciousness.
- 2. When graphing observations, place a dot (●) in the appropriate box and join to the preceding dot (e.g. ► For blood pressure, use the symbols indicated ( ; ). You must write any observation outside the range of the graph as a number.
- 3. If the patient's Total Q-ADDS Score is ≥3–7, request the patient be immediately reviewed by the Triage Nurse or Nursing Team Leader and notify an on-duty QAS supervisor. Document the date and time of this escalation in the DARF using the Q-ADDS Procedure.
- Document Neurological observations on page 4 if clinically indicated. Initiate an Emergency Call if GCS falls by ≥2 points.

PAGE 2

QAS TRANSFER OF CARE

**EMERGENCY Q-ADDS** 

		Date													Name:
Adult  Australian Triage S  Clinical Frail		Time													URN: DOB:
Australian Triage S	Sca	le (ATS) Category													
Clinical Frail	ty :	Scale Score													Q-ADDS Score Legend
	E														0 Score 0
Respiratory Rate	2	31–35 25–30	4	4	4	4	4	4	4	4	4	4	4	4	1 Score 1
(breaths / min)	1	21–24													2 Score 2
Measure for a	0	17–20													3 Score 3 Score 4
Total minute	L	13–16													
A / I	1 E	9–12													E Emergency call
<del>\ /\ /  </del>		≤8 ≥98				-									Clinical Frailty Scale Legend
	0	95–97				$\vdash$									(See other page for further information)
O <sub>2</sub> Saturation	L	92–94													1 Very Fit
(%)	1	90–91													2 Well
0	2	85–89 ≤84	Δ	1	Δ	4	Δ	Δ	4	Δ	Δ	Δ	Δ	Λ	3 Managing well
~ V 0/	E		-				-				-		-		4 Vulnerable >5 Frail
Oxygen*	4	>11–14	4	4	4	4	4	4	4	4	4	4	4	4	25 Fraii
(L/min)	2	>5–11													
1887	0	2–5 <2													Q-ADDS table:
FM Face mask NP N	1 -	prongs Mode	$\vdash$			$\vdash$			$\vdash$					+	Record the patient's vital signs by
r doc mask HF N	4	profigs Mode ≥200	4	Λ	4	Α	1	Α	Λ	4	4	1	1	4	placing a dot (•) in the appropriate bo and join the preceding dot (`\(\sime\)). For
A.	-	190s	-	-	-	7	-	-	7		-	-	-		BP use the symbol indicated ( ; ).
V	2	180s													Q-ADDS Score:
Blood		170s				_									Using the legend, assign a score of
1 / / / / / /	1	160s 150s													0- <b>E</b> for each individual vital sign.
Pressure (mmHg)		140s				$\vdash$									Total Q-ADDS Score:
(mining)	0	130s													Add all the individual scores together
٨		120s													to calculate the Total Q-ADDS Score.
	1	110s													
Score systolic BP	2	100s 90s													ATS Category 1–2:
	4	80s	4	4	4	4	4	4	4	4	4	4	4	4	10 minute intervals.
	E	70s													If delayed >1 hour, discuss the
		60s	_	-		┞		-	┡						required frequency of observations
	4	≥160 150s	4	4	Δ	4	4	4	4	4	4	4	4	4	with an ED clinician. If ongoing clinical concerns exist, call the QAS Clinical
	4	140s	4	4	4	4	4	4	4	4	4	4	4	4	Hub on 1300 315 280 (Option 3).
	3	130s													ATS Category 3–5:
	2	120s	L	-		├		-	₩		_	_			30 minute intervals.
Heart Rate	1	110s 100s		-		$\vdash$									
(beats / min)	<u> </u>	90s												-	
(550.67 11111)		80s													Total Q-ADDS Score ≥3:
	0	70s													<ul> <li>Request the patient be immediately reviewed by the Triage Nurse or</li> </ul>
	B	60s 50s				$\vdash$		-	$\vdash$					+	Nursing Team Leader.
GV MA	2	40s													Notify an on-duty QAS supervisor.
	E	30s													E score in any field:
Cardiao	R	hythm													Provide advanced life support
Pain Sc									П			П			interventions.
	Т	≥39.5													Immediately initiate an Emergency Ca
	2	38.5–39.4													
	1	38–38.4 37.5–37.9													• If the patient has been delayed for >1
Temperature	0	37.5–37.9	$\vdash$	$\vdash$		$\vdash$		-	$\vdash$					$+ \parallel$	hour <b>AND</b> meets the following criteria
(°C)	ľ	36.1–36.9												$\parallel \parallel$	request a clinical review be performed
	1	35.1–36													to discuss off-load:
	2	34.1–35								4			-		Total Q-ADDS Score 0
<del>\/ \/  </del>	4	≤34 Changing behaviour	4	4	4	4	4	4	4	4	4	4	4	4	AND
Behaviour and	4	or New confusion	4	4	4	4	4	4	4	4	4	4	4	4	Clinical Frailty Score <3
Consciousness	0	Alert													
If necessary, wake	1	Voice Pain													AND
patient before scoring	E	Unresponsive													ATS Category 3–5
TOTAL 0-4															
TOTAL Q-A	IJL	OS SCORE	L		L					L					Complete Q-ADDS procedure in DAR
Parame	dic	Initials													Capture a photo of this page in DARF
						Р	age:	2 of 4	4						

Cardiac Rhythm Legend	(Affix identification label here)								
AF = Atrial Fibrillation	URN:								
AFL = Atrial Flutter	Ortiv.								
HB = Heart Block	Family name:								
JR = Junctional Rhythm	Given name(s):								
SB = Sinus Bradycardia									
SR = Sinus Rhythm ST = Sinus Tachycardia	Address:								
SVT = Sinus rachycardia	Date of birth: Sex: M F I								
·									
Could it be Sepsis?	the column or accompated infection, who are of the following clinic								
eatures:	nt has a known or suspected infection, plus any of the following clinic								
Respiration Rate >20 breaths per minute	Not passed urine in the last 12 hours								
Heart Rate >90 beats per minute	• Lactate ≥2mmol/L								
Systolic Blood Pressure <100mmHg	Non-blanching rash/mottled/ashen/cyanotic								
Systolic Blood Pressure drop >40mmHg	Acute deterioration in functional ability								
Temperature <35.5°C	Taking an immunomodulator								
Temperature >38.4°C	Recent chemotherapy      Full dames of new or all trend mental state.								
New oxygen requirement to keep oxygen saturation >9									
New dysrhythmia	Family members/carers concerned about mental state								
Any Criteria of Concern Identified?									
Notify Triage Nurse or Nursing Team Leader, if the patien	nt has any of the following clinical features:								
Threatened airway	Ischaemic limb								
New neurological deficits	Haemorrhage that is not controlled by direct pressure								
Chest pain with acute ischaemic ECG changes	Family or carer are concerned about patient								
Uncontrolled pain requiring analgesia every 10 minutes	You are concerned about the patient								
or less									
Clinical Frailty Scale*	11/1/80								
Scoring frailty in people with dementia:									
	e of dementia. Common <b>symptoms in mild dementia</b> include mbering the event itself, repeating the same question/story and social								
n <b>moderate dementia</b> recent memory is very impaired, They can do personal care with prompting.	even though they seemingly can remember their past life events we								
n severe dementia they cannot do personal care withou	it help.								
1 VERY FIT: People who are robust, active, energetic and motivated. They tend to exer regularly and are among the fittest for their and the state of	rcise with all outside activities and with keeping								
2. WELL: People who have no active diseas symptoms but are less fit than category 1. Often, they exercise or are very active occasionally (e.g. seasonally).									
MANAGING WELL: People whose medical problems are well controlled, but often all regularly active beyond routine walking.									

meal preparation.

5. MILDLY FRAIL: People who often have more evident slowing, and need help with high order IADLs (finances, transportation, heavy housework). Typically, mild frailty progressively impairs shopping and walking outside alone,

### PAGE 4

IV Cannul	а							(	Affix ic	lentifica	ation la	abel I	nere)				
Site 1:	Gauge:	Site 2:	Site 2: Gauge:			(Affix identification label here)											
Inserted by:	Inserted by:			1	URN: Family name:												
Date:	Time: Date: Time:				1	-											
Removed by:					Given name(s):												
Date:	Time:	Date:	Time:		Address:												
Date.	Tillie.	Date.	Tillie.		Date	of birth	1:					Sex	C [	M	F I		
Neurologi	cal		_												4		
			Date			_											
			Time														
			Tillie														
-10	1	Spontan	eous 4			1											
Eyes		To sp	eech 3														
open		То	pain 2														
		No resp	onse 1														
100		Orien	tated 5			1									1		
		Conf	used 4														
Best verbal		Inappropriate w	ords 3														
response	Incor	mprehensible so	unds 2														
		No resp	onse 1														
MA		ETT / Tracheos	tomy														
		Obeys comm	ands 6														
		Localises to	pain 5														
Best motor		Withdraws from	pain 4														
response	Flexion	to pain (decortion	cate) 3												Pupil sizes		
	Extension	to pain (decereb	rate) 2												(mm) • 1		
	1111	No resp	onse 1												• 2		
			Total												3 4		
	$\mathbf{V}_{\mathbf{I}}$				Initiate	an En	orgon	CV Ca	II if GO	CG falls	e hy >	2 20	inte		5		
M			Size (left)		miliate		lergen	cy ca		Jo Talls	S Dy E	.z poi	IIIS				
			tion (left)								$\dashv$				6		
Pupils			ze (right)			+									7		
			on (right)			+					$\dashv$			+	8		
	15	Norm	al power			+					$\dashv$			$\top$			
		Mild w	eakness		_	$\top$					$\neg$				Pupil		
Limb		Severe w	eakness		_	$\top$					$\neg$			$\top$	reaction + Brisk		
movements: Arms		Spast	ic flexion			$\top$					$\neg$			$\top$	X Nil S Sluggish		
		E	xtension			$\top$					$\neg$			$\vdash$	C Eye closed by swelling		
		No r	esponse												- 5, 5, 5, 5, 1		
$\mathbf{T}$	7		al power														
1/1			eakness			1									-		
Limb movements:		Severe w				1	+										
Legs		E	xtension			+	+				$\dashv$			+	-		
		No r	esponse		+	+					$\dashv$		<u> </u>	+	-		
				4	1	1	1	1			- 1		1	1	I		

<sup>\*1.</sup> Canadian Study on Health & Aging, Revised 2008. 2. K.Rockwood et al. A global clinical measure of fitness and frailty in elderly people. CMAJ 2005;173:489–495. © Rockwood. Version 1.2, 2019. Page 3 of 4