

Ambulance Clinical Reference Book

Published 2022

Papua New Guinea Version

Ambulance Protocols

To view the full St John Clinical Protocols – Scan here → WWW.Clinical.stjohn.org.pg

Get clinical advice

Unsure what to do next? Need authority to give a medicine?

Just want to check something you've forgotten?

No worries. Call the Duty Clinical Advisor (ClinAdv).

These experienced doctors and paramedics are more than willing to be woken up at 2am to give you help and friendly advice. No question is stupid. **Available 24hrs.**





BASIC TREATMENT PROTOCOL



Assess	Check for Danger: to yourself, others and the patient. Primary survey: ABCDE Call for backup: call for clinician assistance and/or clinical advice if required Vitals: pulse, RR, SpO2, temp. Secondary survey: Complete head to toes assessment		
Oxygen	Give oxygen as indicated in the protocol to maintain SpO2 \geq 94%		
Position	Unconscious:put him lateral (recovery position)Potential spinal injury:put him lateral (recovery position)Other problem:allow him to get in most comfortable position		
Reassure & Respect	 Reassure the patient constantly. The best type of reassurance is calmly, confidently and competently performing your assessment and treatment. Give reassurance to the unconscious patient. Hold the patient's hand and look the patient in the eyes when talking to them. Treat the patient and their family with respect, kindness, consideration, and maintain their privacy and confidentiality. 		
Monitor	Continuously monitor and reassess your patient while you are with them. Measure vital signs every 20 minutes of more frequently.		



Focus area	Vitals	Consider urgent interventions
Airway	Patency	 Manual airway manoeuvres: jaw thrust Airways: OPA / NPA / LMA
Breathing	RR, auscultate, trachea, effort, SpO2	BVM / O2 therapyChest seal / decompression
Circulation	Pulse rate, Capillary refill	 CPR / defibrillation Arterial tourniquet Wound packing Pelvic binder IV / fluids (consider metaraminol / TXA)
Disability	GCS, pupils	- Immobilise spine / pelvis / femur fractures
Exposure	Temperature Look and feel	 Passively cool the patient if temperature high; Keep the patient warm and dry if temperature low.

SECONDARY SURVEY



Focus area		Consider urgent interventions
Full set of vitals	RR, PR, SpO2, BP, BGL	- Repeat RR, PR, BP, SpO2 every 5 – 10 mins.
Give comfort measures	Analgesia, reassurance	- Paracetamol +/- ibuprofen +/- fentanyl
History		Get a thorough historySAMPLE, PQRST
Head to toes		- Check patient from head to toes

Considerations

Management of a patient with a head injury or neurological illness depends on careful and ongoing assessment of the patient's general neurological function.

The first observations conducted pre-hospital provide the basis for monitoring changes in condition throughout the patient's care in hospital.

Document all findings including important negative findings, for example:

- No neck pain or tenderness.
- Pupils equal and reactive to light (PERL, size 4mm)
- No abnormalities detected (NAD) to Colour / Warmth / Movement / Sensation (CWMS) to distal extremities **Specific observations that could be helpful:**
- **Respirations**: observe adequacy, depth, frequency, regularity and any abnormal breath sounds.
- Face: any drooping of facial muscles which side? Can patient swallow?
- Speech: slurred or difficulty speaking?
- Movement: Observe whether all extremities move with equal precision and strength. Note any tremors.
- Sensation: Observe for absent, abnormal or normal sensation.

NERVOUS SYSTEM (CNS) SURVEY SECONDARY AND CENTRAL

Objective

but could become serious; uses precise responses to specific stimuli to always obvious and do not necessarily pose an immediate threat to life assess presence and extent of damage to the central nervous system. A systematic head-to-toe survey used to detect problems that are not

Head

Scalp: Run fingers over scalp without applying excessive pressure, assess for any deformities/abnormalities, bleeding.

Facial Structure: Assess for deformity different areas of the face and record asymmetry, swelling or bleeding and tenderness, check sensation to any irregularities

bleeding, check pupil size and ocular motor function. Check pupil reaction Eyes/nose/ears: Assess for CSF or about any hearing disturbances or to light with a pupil torch. Enquire abnormalities.

Abdomen

Palpate abdomen while assessing for Assess sensory function to touch, and get patient to verbally identify distension, rigidity, and deformity. any indication of discomfort. Assess for injury, bruising, area being touched.

Pelvis

 Check pelvis for stability, by applying gentle downward pressure.

Check for bleeding, tenderness,

deformity, and abnormal positioning of

 Check sensory function on opposite legs and hips sides.

Limbs

Palpate limbs, assess for deformities,

crepitus, swelling, bruising and needle marks

Test strength and motor functions by applying

gentle restraining force while instructing the

patient to push and/or pull against your hands. Assess range of movement.

Neck

tenderness, pain or obvious deformity. Assess if swallowing action is present Prevent movement when assessing Assess cervical spine for mid-line visually, by instructing patient to the neck of the patient. swallow.

him/her to shrug shoulders, assessing Apply gentle restraining force to the Palpate the shoulders bony parts and assess for deformity, crepitus, patient's shoulders, and instruct strength and equality of muscle bruising and swelling/pain. action

Chest

bruising and paradoxical movement, look for open/sucking chest wounds, Assess for deformity, tenderness, Get the patient to inhale deeply: palpate the chest wall.

- Auscultate all sites
- Check for injuries/bruising

touched without visualising the action patient to verbally identify area being Check sensory reaction to touch, comparing left to right side, ask

Back

 Palpate the back of the patient, with minimal movement, assess for injury, tenderness, bleeding, deformity • Assess sensory function







Pulse & Respiration

Indication

- Measure and document patient's pulse and respiration
- To verify correlation with 'heart rate' displayed on pulse-oximeter or monitor

Consideration

- Do NOT use your thumb to palpate the pulse
- Distract the patient's attention from respirations when measuring

Procedure

- All relevant infection control methods to be utilised.
- Locate the pulse best suited for assessment on the patient's body.

Pulse

- Explain the procedure to the patient.
- Palpate the site with the index and middle finger, ensuring not to apply too much pressure.
- Measure the pulse for a total of 15 seconds noting the rate, character and strength.
- The total obtained after 15 seconds is multiplied by 4 to obtain the pulse rate per minute.



Respirations

- Explain the procedure to the patient.
- Visualise the chest rise and fall.
- Measure the respirations for a total of 30 seconds noting the rate, rhythm, effort, depth and any accessory muscle use.
- The total obtained after 30 seconds is multiplied by 2 to obtain the respiration rate per minute.

Pulse Oximetry

Indication

• To monitor peripheral arterial oxygen saturation (SpO₂).

Consideration

- Compare the heart rate reading on the unit to a palpable Pulse AND the reading on the cardiac monitor (if attached) to ensure accuracy.
- It may be necessary to swap fingers on occasion to ensure accuracy.
- · False readings may occur with:
- · Excess ambient light
- Abnormal haemoglobins, (e.g. carbon monoxide poisoning, anaemia)
- Hypotension (poor peripheral perfusion)
- · Hypothermia (poor peripheral perfusion)
- · Nail polish, nicotine staining and dirt.
- · Using the same arm simultaneously with blood pressure monitoring

Procedure for pulse oximeter

- Apply the probe to the most appropriate finger.
- Pulse oximeter should turn on automatically (the pulse oximeter may also have a power button on the front of the unit)
- · Wait for the device to sense perfusion and stabilise the readings



Adult Vital Sign Reference Guide



<u>Vital</u>	Very low	Low	Normal	High	Very high
Respiration	Respiration <8 -		8 - 25	26+	35+
SpO2	<80	<94	95 -100%		
Pulse	<40	<60	60 - 100	100+	130+
BP Systolic	<80	<90	90 - 135	135+	-
BGL	<2	<3.5	3.5 – 8	8+	17
Temperature	<32	34.0	34.1 – 37.4	37.5+	40+

Red zone = potentially life threatening situation -

If red zone, you should call the authorised clinical advisor for clinical advice.

Basic Airway Management

Indications

Basic techniques to open and maintain a patent airway in patients without reflexes.

The **lateral position** is a form of basic airway management in the unconscious patient who is breathing adequately.



Suction units

Indications

To clear secretions in order to maintain a patent airway.



NeVac Suction

- oxygen powered
- single use cannister.
- replace cannister every use
- no filter required

EcoVac Suction

- oxygen powered
- reusable cannister
- change the filter every time

Spencer Jet Suction

- battery powered
- reusable cannister
- clean between use
- keep battery recharged

Never turn a cannister upside down when it has fluid in it. The fluid will damage the filters.

Bag Valve Mask Ventilation



Success

Successful ventilation of a patient can be confirmed by factors such as:

- Rise and fall of chest
- Auscultation of lung bases and apexes, with air movement throughout
- Rise in oxygen saturation (SpO₂)
- Reduction of cyanosis
- Waveform capnography

Ventilation Rate

The following ventilation rates are a guide for normal respiration values. **DO NOT EXCEED.**

Age	Breaths per minute
Newborn	40 - 60
< 1 yr	30 - 40
1 - 2 yrs	25 - 35
2 - 5 yrs	25 - 30
6 - 12 yrs	20 - 25
> 12 yrs	15 - 20
Adult	10 - 12



Giving Oxygen



Management principles when giving oxygen

- Aim for target saturations of between 94 98%.
- If target saturations cannot be maintained with chosen mask, then consider a higher level mask, e.g. if nasal cannula not achieving desired result, move to Hudson mask or non-rebreather mask with higher flow.
- Remember that some conditions can affect SpO2 readings, e.g. carbon monoxide poisoning and cold fingers or bright light.

Mask	Fraction of inspired air (FiO2)	Flow rate
Nasal cannula	24 – 35%	1 – 4 litres per minute (only for inter-hospital patient transfer)
Hudson mask (simple face mask)	40 – 60%	5 - 15 litres per minute
Non-rebreather	60 – 80%	10 – 15 litres per minute
Bag-valve-mask (Ambu-bag)	100%	15 litres per minute

Giving Oxygen



Protocol for SJA staff giving oxygen - St John's Guideline

NEW GUIDELINES 21 Dec 2022

Mask	SpO2	Flow Rate (litres per minute
Nasal cannula For Clinician Use Only		Clinician decision
	SpO2 <94%	6
Hudson mask	SpO2 <90%	8
(simple face mask)	SpO2 <85%	10
	SpO2 <80%	15
Nebuliser Not applicable		8
Non-rebreather SpO2 <85%		10 or 15
Bag-valve-mask (Ambu-bag)	Patient in critical respiratory failure or respiratory arrest.	10 or 15

Notes: If you are unsure what flow rate to use call for clinical advice.

Face mask must always give more than 6Lpm. Non-rebreather must give more than 10Lpm.

Relief of Pain



Appropriate pain management is important for patient comfort and recovery.

Measure vital signs before giving pain relief, and measure regularly to confirm effectiveness and checking for possible adverse effects.

Ask the patient for their pain score before and after giving pain relief to assess effectiveness.

Pain level	Medication	Dose	Route	Repeat	Max. dose	Conditions
Mild to	Paracetamol	> 12 years: 1,000mg	РО	4 hrs	Not to exceed 4,000mg over 24hr period	- Can be given for severe pain if no alternative available - Ibuprofen and paracetamol
moderate	lbuprofen	> 12 years: 400mg	РО	4 hrs	Not to exceed 1,600mg over 24hr period	have better effect when given together - Check protocols for contraindications and cautions.
Moderate to severe	Fentanyl	< 70 years: 100mcg > 70 years: 50mcg	IM	20 mins		Repeat doses only if required for analgesia. Consider paracetamol and ibuprofen in addition.
Moderate to severe	Fentanyl	< 70 years: 50mcg > 70 years: 25mcg	IV	5 mins		IV for HEO / Paramedic use only.
Severe	Ketamine	1mg/kg	IM	0.5mg /kg		For sovere traumatic pain if
Severe	Ketamine	10-20mg	IV	10mg Every 5 mins		For severe traumatic pain if unresponsive to IV fentanyl. Repeat as needed.

IM Medicines (<u>Age >12 year</u>)



Authority: SJA Intern RNs are endorsed by the SJA Chief Medical Officer to give certain <u>intramuscular</u> emergency medicines to patients aged over 12 years according this chart.

Indication	Medicine	Dose	Route	Repeat	Max. dose	Presentation	Preparation
PAIN Moderate to severe	Fentanyl	<mark>50 m<u>cg</u> (</mark> 1mL)	IM	10 mins up to <u>3x</u>	200 m <u>c</u> g	100mcg in 2mL	Draw up 50 mcg (1ml) in a 1ml syringe.
SEIZURES >5 mins duration.	Midazolam	5 mg (1mL)	IM	10 mins up to <u>3x</u>	20 mg	5mg in 1mL	Draw up 5 mg (1ml) in a 1ml syringe.
ANAPHYLAXIS	Adrenaline	300 m <u>cg</u> (0.3mL)	IM	5 mins	No max dose	1,000mcg in 1ml	Draw up 300 mcg (0.3mL) in a 1ml syringe
POST PARTUM	Oxytocin	10 units (1mL)	IM	No repeat	-	10 units in 1mL	Draw up 10 units (1mL) in a 1mL syringe.

Notes:

Paediatric doses: Repeat dose: Oral Medicines: Help:

Interns shall seek authority from duty doctor/paramedic for paediatric medicine administration.
 Repeat means repeat only if indicated, e.g. only if the patient is still in pain or having seizure.
 For oral medicines see: www.clinical.stjohn.org.pg

If clinician uncertain about patient care, seek help from the duty doctor/paramedic.

Intern RNs are not permitted to perform IV cannulation, nor give intravenous medicines or fluids unless specifically authorised.



Massive haemorrhage

- M Stop massive bleeding
 - blood sweep

Airway

- A Maintain open airway
 - OPA / NPA

Respiration

- **R** 02
 - Chest seal / decompress

Circulation

- C IV*
 - TXA

H Head / Hypothermia

- Keep warm and dry

*ALS take note: **PERMISSIVE HYPOTENSION IN TRAUMA**

- 1. Bleeding trauma patients need blood, not normal saline (N/S).
- 2. Only setup IV fluids (e.g. N/S) if radial pulse can not be felt.
- 3. If giving fluids, only give to maintain palpable radial pulse.
- 4. Once radial pulse is palpable, slow fluids to TKVO rate.

Advanced Life Support for Adults



During CPR Airway adjuncts (LMA / ETT) Oxygen Waveform capnography IV / IO access Plan actions before interrupting compressions (e.g. charge manual defibrillator) Drugs Shockable * Adrenaline 1 mg after 2nd shock (then every 2nd loop) * Amiodarone 300mg after 3 shocks Non Shockable * Adrenaline 1 mg immediately (then every 2nd loop) **Consider and Correct** Hypoxia Hypovolaemia Hyper / hypokalaemia / metabolic disorders Hypothermia / hyperthermia Tension pneumothorax Tamponade Toxins Thrombosis (pulmonary / coronary) **Post Resuscitation Care Re-evaluate ABCDE** 12 lead ECG Treat precipitating causes

Aim for: SpO2 94-98%, normocapnia and normoglycaemia Targeted temperature management





Giving IV Fluids

[updated 04 JUN 2022]

Ambulance Service Stoom Papua New Guinea

IV Fluids are an important part of rehydration and resuscitation, but must be given carefully and only when required. Oral fluids are preferred to IV fluids when the patient can tolerate oral rehydration.

Indication	Conditions	Volume
To Keep Vein Open (KVO)	Used for critically ill patient that has (or at risk of) significant deterioration .	20 drops per minute (20 drops = 1ml)For the latest protocol go to clinical.stjohn.org.pg
Shock states and DKA	E.g. sepsis , dehydration, anaphylaxis, neurogenic, DKA	Adult: 250ml boluses to a maximum of 2,000ml Paediatric: 10ml/kg over 5 – 10 minutes. Repeat once.
Cardiac arrest	If hypovolaemia is believed to be the cause of the cardiac arrest	Adult/Paediatric: 20ml/kg Neonate: 10ml/kg
Post ROSC	Reassess between each bolus dose	Adult: 250ml boluses to a maximum of 500ml Paediatric: 10ml/kg once, reassess between infusions
Burns	Adult: TBSA >25% Paediatric: TBSA >10%	Adult: 1 litre stat, followed by 1 litre over 1 hour Paediatric: 10ml/kg over 1 hr
Haemorrhage (Trauma)	 To maintain a palpable radial pulse or to maintain Systolic BP >70mmHg. Reassess between each bolus dose. 	Adult: 250ml boluses (max. 2,000ml) Paediatric: 10ml/kg (max. 250ml bolus)
Crush Injury	Patient remains trapped	20ml/kg bolus doses titrated to effect. (max. 60mL/kg/hr)

CARDIAC ARREST PREHOSPITAL ALS PRIORITIES	Always refer to ALS algorithm. Do ABCDE Assessment as indicated.			
1. Compressions	Continuous, about 1/3 chest depth Aim for 100 – 120 compressions / min			
2. Defibrillation	Check & charge every 2 minutes. Shock when shockable rhythm and indicated in ALS algorithm.			
3. Airway	Use manual or OPA / NPA <u>or</u> LMA			
4. Ventilation	Manual/OPA/NPA : give 2 ventilations every 30 compressions. LMA : give 1 ventilation every 15 compressions (do not stop compressions to give ventilations when LMA in situ)			
5. IV Access	Obtain IV access when possible. (Do not compromise compressions / defibrillation to obtain IV.)			
6. Adrenaline IV	Give as early as you possible, according to the ALS algorithm.			
7. Reversible causes	Treat reversible causes where indicated and within your scope.			
Refer to the St John Ambulance approved ALS Algorithm in the SJAPNG Clinical Resources				



	Action	Description
	Primary Survey	 Do ABCDE. Treat as you go. Call for Backup if severe or life-threatening
ļ	Airway	RR, auscultate, effort, trachea, SpO2, – listen for wheezes
	Position	- Position patient appropriately (sitting upright or position of comfort)
	Consider oxygen	- Titrate SpO2 to target (92 – 95% adult) (>95% children)
	Consider salbutamol if bronchospasm and SOB associated with wheeze	Salbutamol (nebulised with 6 – 8L/min oxygen) <u>Adult/Child >6yo:</u> 5mg in 2.5ml, repeat a every 5 minutes as clinically required. <u>Paediatric <6yo:</u> 2.5mg in 2.5ml, repeat every 5 minutes as clinically required.
	Transport to hospital	Urgent transport if serious or life-threatening.



Caution	Description
Contraindications for salbutamolDo not give salbutamol if 1. you suspect patient has cardiogenic pulmonary oeden 2. the patient is less than 12 months old	
Use of a puffer	The metered-dose inhaler (puffer) is equally as effective as nebulisation, in all asthma situations, where the patient is still able to adequately inhale.
When to use Nebuliser	Nebuliser is recommended where the patient loses the ability to inhale adequately.
Be very careful leaving patients at home	Always recommend asthma patient be transported to hospital for observation. Some patient may experience rebound asthma after receiving salbutamol. This means the patient feels better after the first salbutamol dose. After a while effects of the first salbutamol wears off and the patient has another exacerbation of asthma. This can happen after the ambulance leaves.

[updated 04 JUN 2022]

Parameter	Mild/moderate	Severe	Life-threatening
Body position	Sits upright	Sits hunched forwards	Sits hunched forwards
Speech	Speech Talks in phrases		Talks in words
Level of consciousness	Normal	Agitated	Drowsy / confused
Respiratory rate	Increased but <30 breaths/min	> 30 breaths/min	>30 breaths/min
Accessory muscle use	No	Yes	Paradoxical breathing
Heart rate	100 – 120 bpm	>120 bpm	> 120 bpm or bradycardia
SpO2			

Source: Asthma exacerbation severity assessment criteria according to the Global Initiative for Asthma 2018

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[updated 04 JUN 2022]

	Action	Description	
	Primary Survey	 Basic Treatment Protocol Do ABCDE. Treat as you go. Call for Backup if suspected acute myocardial infarction 	
Y	Reassurance	Patient may feel very scared and need you to comfort them.	
	Limit exertion	By carrying the patient to reduce his/her cardiac workload	
	Give Aspirin	Give 300mg aspirin as indicated (only if patient <u>></u> 12YO)	
J	Consider Oxygen	Titrate oxygen to achieve SpO2 of <u>></u> 94%	
	Obtain IV Access		
	Consider Analgesia	- Paracetamol - Fentanyl	
	Transport to hospital	Urgent transport.	

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[updated 04 JUN 2022]

Action	Description (always refer to latest protocols online)
Primary Survey	 Basic Treatment Protocol Do ABCDE. Treat as you go. Call for Backup if hypoglycaemic
Check vital signs	- Check BGL, temperature & SpO2
Consider glucose if BGL <u><</u> 3.5 mmol/L	First preference: Oral glucose if patient can swallow and obey commands. <i>Glucose gel PO 15g.</i> Second preference: IV glucose if patient cannot swallow and obey commands. <i>IV Glucose 10% - 150ml undiluted in normal saline as per</i> <i>protocols</i>
Notes:	 Oral glucose is preferred if possible as it is better tolerated and less invasive. Only give IV glucose if you measured BGL <3.5mmol/L
Transport to hospital	Urgent transport. Code 3 to hospital if seizures continue.





	Action	Description
	Primary Survey	- Basic Treatment Protocol - Do ABCDE. Treat as you go. - Call for Backup
	Airway	 Remove all foreign objects from the patient's airway Consider nasopharyngeal airway (NPA)
	Check vital signs	- Check BGL, temperature & SpO2
	Consider sedation if seizures greater than <u>10min</u>	- Adult : Midazolam 5mg IM repeat <u>once</u> after 10 mins. - Paediatric : Midazolam 0.2mg/kg (max 5mg), repeat <u>once</u> after 10 mins.
	Consider treatable causes of seizure	 hypoglycaemia, eclampsia, hyperthermia treat as appropriate
	Transport to hospital	Urgent transport. Code 3 to hospital if seizures continue.

SEPSIS



Sepsis needs rapid intervention

Priorities	More information	Scope
Give O2	If SpO2 <94%	Pasia
Start transport to hospital urgent		Basic
Obtain IV access		Advanced
Consider IV fluid therapy	Check SJA PNG Clinical Protocols if indicated	RN / HEO
Give antibiotics		
Urinary tract, abdomen, post- partum, <u>or</u> unknown	 1.2g amoxicillin + clavulanic acid IV, <u>AND</u> Gentamycin IV (do NOT give Gentamycin if pregnant) 400 mg if > 80kg 320 mg if 60 – 80kg 240 mg if <60 kg 	
Chest <u>or</u> suspected meningococcal septicaemia	2g ceftriaxone IV	
Pregnant sepsis	1.2g amoxicillin + clavulanic acid IV	

SEPSIS



Sepsis is a life-threatening condition caused by the body's immune system responding to a bacterial infection.

How can you identify sepsis? An adult with sepsis may present with <u>one</u> or more of the following:

Criteria Amber flags		Red flags	
Mental state Family concerned about mental status		New altered mental state	
Systolic BP	<90mmhG (or drop of >40 from normal)	91 – 100mmHg	
Heart rate	>91 per minute	>130 per minute	
Temperature	35.1 – 36°C or >38°C	<35℃	
Respiratory rate	21 – 24 per minute	>25 per minute	
SpO2	Needs O2 to keep SpO2 >94%	Non-blanching rash	
	Acute deterioration in functional ability	Not passed urine in 18hrs	
Other	Trauma / surgery / procedure last 8 weeks	Lactate >2mmoL/L (if available)	
	Immunosuppressed		
	Clinical signs of wound infection		



Action	Description
Primary Survey	Do ABCDE. Treat as you go.
Use Situational Awareness	 Is the patient suicidal? Does patient have dangerous objects?
Call for backup	 Police Clinical Support
Check Vital Signs	- Check BGL & pulse oximetry
Address organic causes (medical reasons)	Consider medical causes for behavioural disturbance, e.g., sepsis, malaria, meningitis, encephalitis
Transport to hospital	Use police assistance if required.

[updated 04 JUN 2022]





[updated 04 JUN 2022]

Action	Advanced actions	
Primary Survey	Basic Treatment Protocol	
Measure vital signs	IV Access + cardiac monitoring	
Give Oxygen if needed	Not routinely required unless indicated	
BIRTH IMMINENT >>	 Refer to Childbirth Clinical Skills Do NOT pull on umbilical cord Prepare for Newborn Resuscitation 	
 BIRTH NOT IMMINENT >> Monitor closely Document observations Stable: do observations every 10 mins Time Critical: do observations every 5 minutes 		
AFTER BIRTH >>	TRANSPORT TO HOSPITAL <if bleeding=""> • Apply direct pressure • Encourage baby to breast-feed + skin-to-skin contact • Consider fundus massage • Consider NASG</if>	

Radio information

Talk Group	Position	LTE	UHF	VHF
National1 (command & AME)	1	Yes		
NCD	2	Yes		Yes
Hospital - PMGH	3	Yes		
Regional	4	Yes		
Clinical Support	5	Yes		
Administration	7	Yes	Yes	
Event	8	Yes		
Major Incident	9	Yes		

Code	Meaning
Code 1	SJA member in immediate danger. Need police and security urgently
Code 2	Cardiac arrest
Code 3	Transporting critical patient to hospital
Code 4	Patient deceased

Location Talk Group		Position	Location prefix
NCD	NCD/Southern	2	POM
Central	NCD/Southern	2	Central
Gulf	Gulf NCD/Southern		Gulf
ENB	Regional	4	Rabaul
Morobe	Regional	4	Lae
Simbu	Regional	4	Simbu
Goroka	Regional	4	Goroka
Mt Hagen	Regional	4	Hagen

Your responsibilities at start of shift

Driver	Treating officer
 Check the ambulance is safe tyres (pressure and wear/tear) oil fuel seatbelts 	 Get ready / sign-out radio/s and tablet medicines and kits pulse oximeter/thermometer, BGL
Radio check and sign-on to NACCdo this 1 minute before shift start time	Check ambulance kits using checklist.
Clean the ambulance interior - wipe surfaces, then mop floor. - front to back - ceiling to floor	 Check the stretcher chest harness waist belt clean stretcher from top to bottom

Your responsibilities during the shift

Driver	Treating officer
Drive the ambulance	Assess the patient - measure vital signs, pulse, respiration rate
Keep the ambulance interior clean	Give patient care and reassurance
Listen to the radio at all times	Ensure seatbelts worn by patient
Operate the stretcher - make sure all occupants wearing seatbelt	Document care given - ensure case times are accurate: scene, depart, destination, treatment times
 Give very brief scene report pt serious / not serious / mild injuries pt's key problems any abnormal vital signs 	Handover to hospital - handover to receiving doctor / nurse
 Restock & clean between patients change linen clean equipment restock 	Seek clinical support - contact the duty authorised clinical advisor for medical support

Your responsibilities at end of shift

Driver	Treating officer
Check the ambulance - report any defects to fleet@stjohn.org.pg	 Complete documentation ensure AMII tablet synchronised to cloud ensure case times are right for each case
Sign-off over the radio to NACC	 Sign back radio/s and tablet medicines and kits pulse oximeter/thermometer, BGL
Thoroughly clean the ambulance interiorwipe surfaces, then mop floor.front to backceiling to floor	Restock ambulance kits
Wipe patient care equipment - pulse oximeter, BP, stethoscope	Clean the stretcher - clean the stretcher mattress and seatbelts

Ambulance Urgent Duty Rules

- Activate red/blue lights when on urgent duty.
- Activate siren when travelling above the <u>normal</u> speed limit for road you on which you are situated (day and night)
- Urgent response speed limit is:
- Intersection speed limit is: 20k
 When approaching red light / intersection, slow to below 20kmph
- Transporting patient speed limit is: 70kmph

St John

100kmph

20kmph

How to clean your ambulance

Area	Cleaning product	When
Front compartment	Detergent wipes	Shift start and finish
Surfaces : draws, handles, knobs, walls, seatbelts	Detergent wipes	Shift start, AND whenever contaminated
Floor	Mop with diluted detergent	Shift finish, AND whenever contaminated
General equipment e.g., radio, pager, tablet	Detergent wipes (or, alcohol wipes)	Regularly
Medical equipment including mattress cover	Preferred: Clinell wipes Secondary: alcohol wipes	Shift start and finish, AND whenever contaminated
Fabrics e.g., ceiling and seats	Spray-vacuum with approved detergent liquid	Every Monday, and as needed

What is the right cleaning product?

Area	Product
General areas passenger seatbelt radio, pager, tablet general surfaces medical kits 	Best: Detergent wipes wipes (Second best: Alcohol wipes)
Patient equipment - medical devices (e.g. SpO2 probe; BP; stethoscope) - stretcher seatbelts	Best: Clinell wipes

AMBULANCE

PROTOCOL

POCKET

BOOK



www.clinical.stjohn.org.pg