

# Patient assessment and transport

# Patient presentation - adult and child

## General principles<sup>1</sup>

- The first priority is to assess whether the patient is seriously ill + needs immediate management, or is less acutely sick giving time to get a full history
- Always ask open ended questions
- In children, pay particular attention to history from parent/carer where available

## Rapid assessment

- **D**anger
- **R**esponse
- **S**end for help if unresponsive
- **A**irway - compromised
- **B**reathing - not breathing, significant respiratory distress
- **C**irculation - pulse absent, slow, rapid or profuse bleeding
- **D**isability - **A**lert, **V**oice, **P**ain, **U**nresponsive
- Rapid history, allergies, alerts
- Vital signs - RR, SpO<sub>2</sub>, HR, BP, T - use appropriate Q-ADDS/CEWT/MEWT (Qld) or local EWARS
- Consider BGL

## Is patient immediately at risk

Yes

### Consult MO/NP as soon as circumstances allow

Perform immediate stabilising or life-saving measures. See [Basic life support, p. 44](#) [Advanced life support, p. 46](#) or other topic relevant to urgent presentation

No

**Note:** if trauma related eg fall/hit by an object/motor vehicle accident, promptly assess against [Criteria for early notification of trauma for interfacility transfer \(inside front cover\)](#)

If meets criteria contact ☎ RSQ 1300 799 127 or RFDS 1300 697 337

If outside Qld, refer to local early notification process

Get history and do physical examination as relevant. See [History and physical examination - adult, p. 17](#) or [History and physical examination - child, p. 464](#)

Form a clinical impression

Select appropriate topic to guide further assessment and management

# Adult presentation

## History and physical examination - adult

### Recommend

- If child, see [History and physical examination - child, p. 464](#)
- Always think **could it be Sepsis, p. 62** if signs of infection or history/evidence of fever or hypothermia
- For specific presentations, see:
  - [Traumatic injuries, p. 131](#)
  - [Chest pain assessment, p. 100](#)
  - [Mental health emergency, p. 328](#)
  - [STI/BBV assessment, p. 430](#)
- Ensure a culturally safe environment. As appropriate, be guided by local health workers
- Document your findings clearly, concisely and in logical sequence - use this section to assist
- Offer opportunistic health promotion, screening + brief intervention as appropriate.<sup>1,2</sup> See [Chronic Conditions Manual](#)

### Background

- The history is the most powerful tool for identifying the likely diagnosis in most cases<sup>1</sup>
- Types of history:<sup>2</sup>
  - **emergency** - urgent, rapid collection of crucial information compiled concurrently with life-threatening measures. Take a comprehensive history once patient is stabilised
  - **focused/problem centred** - shorter and specific to the patient's current presenting concern
  - **complete** - comprehensive history of the patient's past and present health status. Usually done at initial visit in a non-emergency situation
  - **follow up** - evaluation of problem from preceding visit

### Vital signs - adult approximate normal values<sup>1-4</sup>

Respiratory rate <b>RR</b>	12–20 breaths/minute
Heart rate <b>HR</b>	60–100 beats/minute
Temperature <b>T</b> - oral, tympanic	35.5–37.5
Blood pressure <b>BP</b>	Systolic < 130, diastolic < 85
O <sub>2</sub> saturation <b>SpO<sub>2</sub></b>	≥ 94%
Conscious level - <b>Alert, Voice, Pain, Unresponsive</b>	Alert
Capillary refill time <b>CRT</b>	≤ 2 seconds
Blood glucose level <sup>5</sup> <b>BGL</b>	4.0–7.8

**Step 1: Obtain history of the presenting concern/problem<sup>1,6</sup>**

- Taking the history is the first step in making a diagnosis
- Use the history to guide the physical examination/further investigations
- An accurately acquired history will usually suggest the diagnosis. The physical examination and investigations should be used to confirm your diagnostic impression

**History of the presenting concern/problem****Presenting concern/  
problem**

- Ask what the problem is
- Use open ended questioning

**For each symptom  
ask about  
(as relevant)**

- Ask about length of illness and details of each symptom(s). Use **SOCRATES** mnemonic
- **Site** - where is the symptom - localised or diffuse
- **Onset:**
  - gradual, rapid or sudden
  - continuous or intermittent
  - what were they doing when it started
- **Character** eg if pain:
  - sharp, dull, burning, stabbing, cramp like, crushing, tingling
- **Radiation** - (if localised) does it travel elsewhere
- **Alleviating factors** - does anything make it better eg sitting up, medicine(s), analgesia
- **Timing:**
  - when did it first begin, duration
  - have they had it before
  - any increase in severity
- **Exacerbating factors** - does anything make it worse eg movement, exercise
- **Severity:**
  - does it interfere with sleep or normal activities
  - if pain - mild, moderate or severe OR severity on scale of 1–10

**Associated/other  
symptoms**

- Ask specifically about **fever/rigors, pain, shortness of breath (SOB), diarrhoea, weight loss**
- Eg nausea, vomiting, photophobia, headache, appetite, urine, bowels, energy

**Treatment ±  
medicine(s) taken  
during this illness**

- What, how much, when, how often, effectiveness

- Ask if there are any other concerns
- Consider possible differential diagnosis
- Subsequently use closed ended questions to confirm or refute your differential diagnoses

**Step 2: Ask about past history<sup>1,6</sup>**

- Review and update past history in medical record each visit. As appropriate, check *My Health Record* <https://www.myhealthrecord.gov.au>
- Consider past history that may assist with differential diagnosis this visit
- Always ask about allergies and medicines

Past history	
<b>Past medical and surgical history</b>	<ul style="list-style-type: none"> <li>• Significant illnesses in the past</li> <li>• Ask about - diabetes, hypertension, angina and myocardial infarcts, epilepsy, asthma, mood or mental health problems</li> <li>• Previous hospital admissions, operations or injuries - where, when, why</li> <li>• Is patient immunocompromised eg:               <ul style="list-style-type: none"> <li>– diabetes, chronic kidney disease or hepatitis, alcoholism, no spleen, lupus, multiple sclerosis, rheumatoid arthritis, HIV, Down syndrome, corticosteroids, chemotherapy, immunosuppressants<sup>7</sup></li> </ul> </li> </ul>
<b>Family history</b>	<ul style="list-style-type: none"> <li>• Health problems in siblings and parents eg diabetes, hypertension, heart disease, stroke, epilepsy, asthma, cancer, mental health</li> </ul>
<b>Social history</b>	<ul style="list-style-type: none"> <li>• Usual GP + contact details if available</li> <li>• Job, living conditions, who else lives at home and what responsibilities do they have in the family. Means of communication for contact/follow up eg phone</li> <li>• Who their partner is or if they are in a relationship</li> <li>• Gender identification + pronouns eg her/him</li> <li>• Smoking/ever smoked - how many a day, ever tried giving up; vapes</li> <li>• Alcohol - what, how much/often. Express in standard drinks/day or week</li> <li>• Recreational drugs</li> <li>• Recent overseas travel (if infectious disease possible) - where/when</li> <li>• Diet, exercise</li> <li>• Risk factors + indicators for <a href="#">Domestic and family violence, p. 232</a></li> </ul>
<b>Medicines</b> Also see <a href="#">Best possible medication history, p. 548</a>	<ul style="list-style-type: none"> <li>• Regular and prn medicines - prescribed/over-the-counter, complementary, alternative, bush medicines, vitamins, oral/other contraceptive (females):               <ul style="list-style-type: none"> <li>– generic name, dose, route, frequency</li> <li>– explore adherence and any barriers to taking medicines as prescribed</li> <li>– recently changed/course completed</li> </ul> </li> <li>• If patient has medicines with them, check against medical record</li> </ul>
<b>Allergies</b> <b>Adverse medication reactions</b>	<ul style="list-style-type: none"> <li>• Allergies/reactions + type of reaction (anaphylaxis, skin reaction, other) to:               <ul style="list-style-type: none"> <li>– medicines</li> <li>– other eg honey bee stings, sticking plaster, food</li> <li>– is adrenaline (epinephrine) autoinjector used eg EpiPen®</li> </ul> </li> <li>• Check medical record + document allergies/adverse reactions<sup>8</sup></li> <li>• Check medical alert jewellery/accessories eg key ring, USB, shoe tag, anklet, watch, tattoo<sup>9</sup></li> </ul>
<b>Immunisations</b>	<ul style="list-style-type: none"> <li>• Check if up-to-date, including COVID-19 vaccination status</li> <li>• Offer opportunistic <a href="#">Immunisations, p. 542</a> as appropriate</li> </ul>
<b>Opportunistic health checks</b> (offer or refer as appropriate)	<ul style="list-style-type: none"> <li>• Check if due for routine health checks eg <a href="#">STI/BBV check, p. 430</a>, Cervical Screening Test, mammogram, bowel screening</li> <li>• See <a href="#">Chronic Conditions Manual</a> for <b>adult health checks</b></li> </ul>

**Step 3: Do physical examination<sup>1,6</sup>**

- Most information will be gained from history taking. Use this information to guide examination
- **In an adult who is not sick:**
  - examine the relevant system first
  - proceed to further examination if required. Be guided by your findings
- **In a sick adult:**
  - examine the relevant system first followed by ALL other systems
- Use a systematic approach to physical examination

**Physical examination - adult**

<b>Vital signs</b>	<ul style="list-style-type: none"> <li>• RR, HR, BP, T, SpO<sub>2</sub></li> <li>• Conscious state - <a href="#">GCS/AVPU, p. 550</a></li> <li>• If indicated:           <ul style="list-style-type: none"> <li>– BGL</li> <li>– capillary refill time (<math>\leq 2</math> seconds)</li> </ul> </li> <li>• <b>Document on appropriate Q-ADDS (QId) or local EWARS:</b> <ul style="list-style-type: none"> <li>– if pregnant/postnatal, use appropriate Q-MEWT rural + remote</li> <li>– <b>calculate score. Act on score if indicated + consider screening for <a href="#">Sepsis, p. 62</a></b></li> </ul> </li> </ul>
<b>General appearance</b>	<ul style="list-style-type: none"> <li>• Do they look sick/not sick</li> <li>• Observe:           <ul style="list-style-type: none"> <li>– posture, mobility</li> <li>– any <math>\uparrow</math> work of breathing (WOB), breathlessness</li> <li>– conjunctiva and nail beds - are they pale</li> <li>– lips, tongue and fingers - are they blue</li> <li>– general skin colour - pale/jaundiced</li> <li>– agitation, distressed</li> <li>– sweating</li> <li>– are they well nourished</li> </ul> </li> <li>• Weight <math>\pm</math> height, BMI and waist measurement</li> </ul>
<b>Hydration</b>	<ul style="list-style-type: none"> <li>• Eyes - normal or sunken</li> <li>• Mouth and tongue - wet or dry</li> <li>• Skin turgor - normal or reduced. Pinch skin - normal skin returns immediately on release (normal can be reduced in elderly)</li> <li>• Dry axillae</li> <li>• Recent weight loss/gain</li> <li>• Also see <a href="#">Hydration assessment - adult, p. 202</a></li> </ul>

## Physical examination - adult (continued)

Skin	<ul style="list-style-type: none"> <li>• Check the whole body in a sick patient:               <ul style="list-style-type: none"> <li>– consider removing clothing to underwear</li> </ul> </li> <li>• Look for:               <ul style="list-style-type: none"> <li>– rashes - vesicular, macular, papular, petechiae, purpura</li> <li>– signs of infection - redness, swelling, tenderness, warmth</li> <li>– bruising, unexplained or unusual marks</li> <li>– general pigmentation - areas where skin is lighter or darker</li> </ul> </li> <li>• Any skin lesions or sores:               <ul style="list-style-type: none"> <li>– colour, shape, size, location, distribution on body</li> <li>– non-blanching, erythema/redness</li> <li>– vesicles present</li> <li>– exudate eg clear, pus, bloody, malodorous</li> <li>– any family members/close contacts with similar lesions</li> </ul> </li> <li>• Palpate/feel skin:               <ul style="list-style-type: none"> <li>– temperature, dryness/moisture, clamminess</li> <li>– any tender/enlarged lymph nodes in the neck, axillae or groin</li> </ul> </li> <li>• See <a href="#">Rash, p. 286</a> as needed</li> </ul>
Cardiovascular system	<ul style="list-style-type: none"> <li>• Also see <a href="#">Chest pain assessment, p. 100</a></li> <li>• Any:               <ul style="list-style-type: none"> <li>– pain/pressure in neck, chest, arms, or radiating pain</li> <li>– SOB on exertion</li> <li>– evidence of oedema, particularly feet, hands, face or sacrum</li> </ul> </li> <li>• Check skin:               <ul style="list-style-type: none"> <li>– colour - pink, white, grey, mottling. Compare trunk with limbs</li> <li>– temperature - hot, warm, cool or cold. Compare trunk with limbs</li> </ul> </li> <li>• Central perfusion - blanch skin over the sternum with your thumb for 5 seconds. Time how long it takes the colour to return in seconds</li> <li>• Peripheral perfusion - blanch the skin on a finger or toe for 5 seconds. Time how long it takes for the colour to return in seconds</li> <li>• Look for distended neck veins</li> <li>• If skilled listen to heart sounds - any murmur</li> </ul>
Respiratory system	<ul style="list-style-type: none"> <li>• Most information is gained from simple observation</li> <li>• Inspect anterior/posterior chest - equal chest expansion, abnormal chest movement, ↑ WOB, use of accessory muscles, tracheal tug</li> <li>• Can they talk in full sentences, single words or unable to talk at all</li> <li>• Measure RR over 1 minute - note rhythm, depth and effort of breathing</li> <li>• Listen for extra noises - cough (loose, dry, muffled ± sputum), wheeze, stridor, hoarseness</li> <li>• Auscultate for air entry into both lung fields:               <ul style="list-style-type: none"> <li>– equal, adequate</li> <li>– any wheeze or crackles - on inspiration or expiration</li> </ul> </li> <li>• Percuss lung fields - dull, resonant, hyper-resonant</li> <li>• Can they lie flat without breathlessness</li> </ul>

## Physical examination - adult (continued)

<p><b>Gastrointestinal/ reproductive system</b></p> <p>Consider cultural safety/sensitivity</p>	<ul style="list-style-type: none"> <li>• Inspect abdomen for scars, distension, hernias, bruising, masses</li> <li>• Auscultate bowel sounds in all 4 quadrants - present or absent</li> <li>• Palpate abdomen:               <ul style="list-style-type: none"> <li>– soft or firm</li> <li>– obvious masses</li> <li>– tender to touch. Identify abdominal quadrant and exact area</li> <li>– guarding or rigidity even when the patient is relaxed</li> <li>– rebound tenderness - press down and take your hand away very quickly, is pain greater when you do this</li> </ul> </li> <li>• Change of bowel habits</li> <li>• Ask women:               <ul style="list-style-type: none"> <li>– date of last normal menstrual period</li> <li>– abnormal vaginal bleeding or discharge, itch</li> </ul> </li> <li>• Do pregnancy test if reproductive age with abdominal pain</li> <li>• In men:               <ul style="list-style-type: none"> <li>– if relevant check the testes - any redness, swelling, tenderness, itch, lesions</li> <li>– ask about penile discharge</li> </ul> </li> <li>• See <a href="#">Abdominal examination, p. 199</a> for detailed assessment</li> </ul>
<p><b>Nervous system</b></p>	<ul style="list-style-type: none"> <li>• Assess conscious state. See <a href="#">GCS/AVPU, p. 550</a></li> <li>• Any dizziness, spinning, fainting, blackouts, problems with speech, vision, weakness in arm/leg, altered sensation, neck stiffness</li> <li>• Assess orientation to time, place and person. Ask:               <ul style="list-style-type: none"> <li>– name, date of birth, location, time, date, year</li> </ul> </li> <li>• Check:               <ul style="list-style-type: none"> <li>– pupils - size, symmetry, reaction to light</li> <li>– for asymmetry of tone and power - compare each side of the face and limbs</li> <li>– if indicated, test touch and pain sensation - using cotton wool and the sharp end of the percussion hammer</li> <li>– test finger nose coordination and if possible observe the patient walking</li> </ul> </li> <li>• See <a href="#">Dizziness/vertigo, p. 124</a> as needed</li> </ul>
<p><b>Musculoskeletal system</b></p>	<ul style="list-style-type: none"> <li>• Ask if any painful or stiff joints or muscular pain</li> <li>• Observe gait</li> <li>• Inspect joints for redness, swelling, warmth or lacerations over or near a joint</li> <li>• See <a href="#">Musculoskeletal injuries, p. 150</a> as needed</li> </ul>
<p><b>Eyes</b></p>	<ul style="list-style-type: none"> <li>• Check <a href="#">Visual acuity, p. 265</a> of each eye as indicated</li> <li>• Inspect:               <ul style="list-style-type: none"> <li>– eyes and surrounding structures - any redness, discharge or swelling</li> <li>– pupils - equal in size, regular in shape, reaction to light</li> <li>– eye movements</li> </ul> </li> <li>• See <a href="#">Eye assessment, p. 263</a> for detailed assessment</li> </ul>

## Physical examination - adult (continued)

Ears, nose and throat	<p><b>Ears</b></p> <ul style="list-style-type: none"> <li>Inspect/check:             <ul style="list-style-type: none"> <li>pinna - any redness, swelling, nodules</li> <li>behind the ear (mastoid) for redness, swelling, pain</li> </ul> </li> <li>Any obvious swelling or redness of the ear canal. If there is, looking with an otoscope will be painful</li> <li>Using otoscope, inspect:             <ul style="list-style-type: none"> <li>canal - any redness, swelling, discharge, foreign bodies (insects/objects)</li> <li>eardrum - normal, redness, dullness, bulging/retraction, fluid, bubbles, perforations or discharge</li> </ul> </li> <li>See <a href="#">Ear assessment, p. 505</a> for detailed assessment</li> </ul> <p><b>Nose</b></p> <ul style="list-style-type: none"> <li>Feel for facial swelling (sinuses), pain</li> <li>Any discharge or obvious foreign body</li> </ul> <p><b>Throat</b></p> <ul style="list-style-type: none"> <li>Inspect - lips, buccal mucosa, gums, palate, tongue, throat for:             <ul style="list-style-type: none"> <li>colour changes, swelling, bleeding, pus, fissures</li> <li>tonsils - redness, enlargement, pus</li> <li>teeth and gums</li> </ul> </li> </ul>
Urine	<ul style="list-style-type: none"> <li>Check urine in all sick patients and if:             <ul style="list-style-type: none"> <li>abdominal pain (+ do pregnancy test if reproductive age)</li> <li>urinary symptoms</li> <li>diabetes</li> </ul> </li> <li>Do urinalysis</li> <li>Note colour - normal, dark or blood stained, cloudy</li> </ul>

**Step 4: Consider differential diagnosis**

- If unsure, collaborate with MO/NP
- Always consider [Sepsis, p. 62](#)

**Step 5: Select *Health Management Protocol (HMP)* or *Clinical Care Guideline (CCG)***

- To guide further assessment and management
- Document the page number of the HMP/CCG referred to in the medical record

**Step 6: Order/collect pathology if indicated**

- RIPRN:**<sup>20</sup>
  - may order pathology as per the PCCM
  - name and signature of the MO, NP or RIPRN must be on pathology form or follow local protocol for electronic ordering
  - if RIPRN orders pathology, they are responsible for following up the result
  - consult MO/NP if results are abnormal/concerned about results
- Other clinical staff may be able to request pathology if there is a local agreement in place between the director of the clinical unit and Pathology Qld or local health service
- Write or record on electronic request 'copy of report to...' RFDS/other collaborative health provider on the pathology form as appropriate

- Point-of-care testing (PoCT) is available in some facilities eg i-STAT
- See [Pathology Qld](#) for:
  - pathology test list
  - rural and remote pathology request forms
- If outside Qld, refer to local pathology services

**Step 7: Collaborate with MO/NP as needed**

- Always consult MO/NP if you are unsure
- Have Q-ADDs/CEWT/MEWT score completed
- Use [ISBAR, p. 25](#) to guide your communication
- Check your local facility guidelines to find out who to contact - during and after hours:
  - **if in doubt call the retrieval service in your State/Territory eg RSQ**

Qld contacts may include		
Local/on-site MO/NP	<ul style="list-style-type: none"> <li>• <b>Check contact details/on call roster at your workplace or contact DON</b></li> </ul>	
<p><b>RSQ</b> Retrieval Services Qld</p>	<ul style="list-style-type: none"> <li>• 24 hour telehealth, coordination and emergency medical advice</li> <li>• For critically unwell, high acuity patients eg if local doctor not available, or if RSQ is your first point of contact</li> <li>• Early notifications eg trauma, STEMI</li> <li>• Neonatal, paediatric, adult + obstetric patients</li> </ul>	<p><b>1300 799 127</b></p> <p>Keep your video conferencing equipment switched on at all times. RSQ will make a video conference call. No need to use remote control</p> <p><a href="https://qheps.health.qld.gov.au/rsq">https://qheps.health.qld.gov.au/rsq</a></p>
<p><b>RSQ</b> Telehealth</p>	<ul style="list-style-type: none"> <li>• 24 hour, 7 days/week emergency clinical support + advice for rural and remote clinicians</li> <li>• Video conference consultations with clinicians eg clinical nurses, senior midwifery advisors, emergency NPs/physicians</li> </ul>	<p><b>1800 11 44 14</b></p> <p><a href="https://qheps.health.qld.gov.au/rsq/rsqtelehealth">https://qheps.health.qld.gov.au/rsq/rsqtelehealth</a></p>
<p><b>RFDS</b> Royal Flying Doctor Service (Qld Section)</p>	<ul style="list-style-type: none"> <li>• 24 hours, 7 days/week statewide services to Qld Health rural + remote facilities where RFDS provide primary care, including:                             <ul style="list-style-type: none"> <li>– phone + video clinical support by primary care/rural generalist and critical care physicians</li> <li>– emergency aeromedical retrieval</li> </ul> </li> </ul>	<p><b>1300 697 337</b> (1300MYRFDS)</p>

- **If outside of Qld, my contacts are:**

– .....

– .....

## Clinical consultation

### Consulting with MO/NP/retrieval coordinator<sup>1</sup>

- Be clear and methodical
- Write your findings down first, time permitting
- **Advise early if you think the patient may need retrieval**
- Say what you think is wrong. Your assessment is important

### I

**Identify** yourself **AND** identify name and spelling of receiving MO/NP

- I am ... (your name and role)
- I am calling from ... (location)
- The best contact number for me is ...

### S

**Situation and status - why are you calling**

- I have a patient ... (name, age and gender)
- Who is ... (stable/unstable/deteriorating/improving)
- Any immediate clinical needs eg attend the hospital, urgent retrieval
- I think the patient is/has ... (clinical impression/suspected diagnosis/unsure but worried) eg I have a critically unwell man with sepsis; I have a well female with diabetic foot ulcer
- Most recent vital signs and Q-ADDS/MEWT/CEWT score, or local EWARS

### B

**Background**

- History of presenting problem, relevant past history
- Evaluation - physical examination, findings, investigation findings
- Allergies
- Current medicines
- I have ... (taken the following actions eg given O<sub>2</sub>, inserted IVC, started IV sodium chloride 0.9%)

### A

**Assessment and actions**

- General appearance
- Weight + additional observations
- I am wanting ... (advice, orders, retrieval)
- Level of urgency is ...
- Agree on plan of action with MO/NP/retrieval coordinator

### R

**Recommendations and read back**

- Confirm:
  - shared understanding of what needs to happen - who is doing what and when
  - contact details - name, number to be called back on
  - follow up requirements and referrals
  - medication orders
- Read back critical information
- Identify parameters for review or escalation (any concerns - follow normal/local escalation pathway)
- Identify any risks

# Patient retrieval

## 1. Who to contact<sup>1,2</sup>

- Usually the MO/NP, or Director of Nursing (DON) if possible, will arrange retrieval if required
- Be guided by local facility policy as to which retrieval service to contact:
  - RSQ 1300 799 127
  - RFDS 1300 697 337 if the community is normally serviced by the RFDS (for advice and retrieval). RFDS will advise RSQ of retrieval requirement
- **If you think a patient may need retrieval, contact the relevant retrieval service EARLY:**
  - even if transport requirement not confirmed
  - this helps allocate resources
- Notify change of clinical condition of patient if worsening or improving:
  - flight priority can always be reassessed

## 2. Retrieval preparation<sup>1,2</sup>

Retrieval preparation	
<b>Documentation</b>	<ul style="list-style-type: none"> <li>• Complete retrieval/<b>RFDS Aeromedical retrieval checklist</b></li> <li>• Ensure documentation goes with the patient including:                             <ul style="list-style-type: none"> <li>– pre-hospital documentation</li> <li>– discharge summary - medical/surgical letter from referring facility</li> <li>– observations forms, including all recent observations + current vital signs, neurological status, BGL, neurovascular</li> <li>– current medication chart, with prn analgesia + cardiac medications (as required)</li> <li>– IV fluid orders and fluid balance chart</li> <li>– ECGs, including ECG recorded on day of transfer</li> <li>– pathology results</li> <li>– x-rays - if digital radiology available, electronically transfer x-ray(s) to receiving facility</li> <li>– ARP/AHD - copy of current</li> <li>– optional - bariatric chart completed if &gt; 120kg; PTSS forms</li> </ul> </li> </ul>
<b>Handover location</b>	<ul style="list-style-type: none"> <li>• Handover location will be determined during the retrieval coordination process</li> <li>• If patient stabilised and prepared, handover at airport/airstrip may occur</li> <li>• Critical and unstable patients will be reviewed at the referring facility by the retrieval team prior to transport</li> </ul>
<b>Patient escort and baggage</b> Space and weight restrictions apply	<ul style="list-style-type: none"> <li>• If room, an escort may be carried at the discretion of the pilot:                             <ul style="list-style-type: none"> <li>– name + weight of escort required</li> </ul> </li> <li>• Maximum baggage allowance is 1 small bag ≤ 5 kg</li> <li>• Medical aids/additional baggage at the pilot's discretion</li> <li>• Confirm no cigarette lighters, vapes, spare batteries and aerosol cans in luggage</li> <li>• Inform family/carers of plans/expectations</li> </ul>

General preparation		
Consideration	Requirements	Rationale
<b>Allergies/ identification</b>	<ul style="list-style-type: none"> <li>Apply ID bands if available</li> </ul>	<ul style="list-style-type: none"> <li>Rapid correct identification</li> </ul>
<b>Weight, height + widest point</b>	<ul style="list-style-type: none"> <li>If &gt; 120 kg, measure width at widest point eg shoulder or hips as per <b>RSQ Bariatric sizing chart</b> (Qld) <a href="https://qheps.health.qld.gov.au/rsq/forms">https://qheps.health.qld.gov.au/rsq/forms</a> (Qld Health intranet only)</li> </ul>	<ul style="list-style-type: none"> <li>Assists transport planning</li> </ul>
<b>Analgesia</b>	<ul style="list-style-type: none"> <li>Give analgesia as clinically indicated prior to transfer</li> <li>See <a href="#">Acute pain, p. 32</a></li> </ul>	<ul style="list-style-type: none"> <li>Movement of the patient may exacerbate pain</li> </ul>
<b>Antiemetic</b>	<ul style="list-style-type: none"> <li>Antiemetic essential if:               <ul style="list-style-type: none"> <li>head, spinal, or penetrating eye injury</li> </ul> </li> <li>Consider for history of motion sickness or general nausea</li> <li>Give 30 minutes prior to transfer</li> <li>See <a href="#">Nausea and vomiting, p. 40</a></li> </ul>	<ul style="list-style-type: none"> <li>Vomiting may exacerbate certain clinical conditions by raising ICP and intraocular pressure (IOP)</li> <li>Puts airway at risk</li> <li>Motion sickness common in aeromedical environment</li> </ul>
<b>IVC</b>	<ul style="list-style-type: none"> <li>Ensure most patients have at least 1 IVC</li> <li>IVC x 2 in critically ill/disturbed patients</li> </ul>	<ul style="list-style-type: none"> <li>IV access may be difficult during flight due to space restrictions and turbulence</li> </ul>
<b>IDC</b>	<ul style="list-style-type: none"> <li>Get patients to empty their bladder prior to transfer</li> <li>Insert IDC if is/may be incontinent</li> </ul>	<ul style="list-style-type: none"> <li>No toilet facilities on aircraft</li> <li>Use of bedpans is avoided due to limitations of space and waste disposal</li> </ul>
<b>Infusions</b>	<ul style="list-style-type: none"> <li>Prior to transfer prepare infusions using compatible equipment, if possible, when using RFDS or other retrieval services</li> </ul>	<ul style="list-style-type: none"> <li>Time is saved if infusions are prepared prior to RFDS arrival</li> </ul>
<b>NGT/OGT</b>	<ul style="list-style-type: none"> <li>Ensure NGT/OGT inserted in:               <ul style="list-style-type: none"> <li>all ventilated patients</li> <li>patients with bowel obstruction</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Allow for drainage of stomach contents and reduce risk of vomiting and aspiration</li> </ul>
<b>Nicotine patch</b>	<ul style="list-style-type: none"> <li>Offer to patients who are smokers</li> </ul>	<ul style="list-style-type: none"> <li>Patient comfort</li> </ul>

Specific medical conditions		
Consideration	Requirements	Rationale
<b>Mental illness/disturbed behaviour</b>	<ul style="list-style-type: none"> <li>Reliable IV access. If possible IVC x 2</li> <li>A risk assessment will be completed by the retrieval service</li> <li>Sedation and physical restraint may be required. Seek medical advice</li> <li>Documentation of SAT score + any interventions/response</li> </ul>	<ul style="list-style-type: none"> <li>For aviation safety, special requirements apply to transportation of patients showing signs of disturbed behaviour, or regarded as being a danger to themselves or others</li> </ul>
<b>Infectious conditions</b>	<ul style="list-style-type: none"> <li>Always notify retrieval coordinator of:                             <ul style="list-style-type: none"> <li>infectious conditions ± precautions</li> <li>if immunocompromised</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Facilitate decision-making regarding the aeromedical transport of infectious patients in order to minimise risk to other patients and staff</li> <li>Limited ability to isolate patients in aircraft</li> </ul>
<b>Spinal injury</b>	<ul style="list-style-type: none"> <li>Transport on vacuum mattress</li> <li>Insert IDC</li> <li>Insert NGT if have altered LOC</li> </ul>	<ul style="list-style-type: none"> <li>To maintain stabilisation</li> </ul>
<b>Bowel obstruction</b>	<ul style="list-style-type: none"> <li>Insert NGT - leave on free drainage or attach anti-reflux valve (do not spigot)</li> <li>Give parenteral antiemetic and adequate analgesia prior to transfer</li> </ul>	<ul style="list-style-type: none"> <li>Trapped gas will expand in volume at altitude and cause pain. NGT will allow gas to escape and reduce vomiting</li> </ul>
<b>Pneumothorax</b>	<ul style="list-style-type: none"> <li>Ensure intercostal catheter in place</li> <li>Connect to ambulatory chest drain system eg Rocket®</li> <li>Suspected pneumothorax should be excluded, if possible, by appropriate imaging</li> </ul>	<ul style="list-style-type: none"> <li>Trapped gas in the pleural cavity will expand at altitude and may result in respiratory compromise</li> <li>Underwater seal drains are avoided due to the risk of retrograde flow during transfer</li> </ul>
<b>Penetrating eye injury</b>	<ul style="list-style-type: none"> <li>Give antiemetic to all patients with proven or suspected eye injury</li> <li>Patients may be transported at reduced cabin altitude</li> </ul>	<ul style="list-style-type: none"> <li>Trapped gas in the globe will expand at altitude and potentially worsen the injury</li> <li>Vomiting may also exacerbate injury by raising intraocular pressure</li> </ul>



# RFDS Aeromedical Retrieval Checklist

<p><i>Patient ID Label - Stick here</i></p>	<p>Diagnosis: _____</p> <p>Referring Facility: _____</p> <p>Receiving Facility: _____</p>
<p><input type="checkbox"/> Patient ID Checked and Correct</p>	

Next of Kin: \_\_\_\_\_ NOK notified of transfer Yes / No  
 NOK Phone Number: \_\_\_\_\_

## Patient Transport Requirements – to prepare, please consider the following:

<ul style="list-style-type: none"> <li><input type="checkbox"/> Pt wearing comfortable clothing (hospital gown only if clinically required)</li> <li><input type="checkbox"/> Fear of flying: Yes/No</li> <li><b>Consider pre-flight medications.</b></li> <li><input type="checkbox"/> Behavioural Concerns: Yes/No</li> <li><input type="checkbox"/> Mobility:       <ul style="list-style-type: none"> <li><input type="checkbox"/> walk up and down 6 stairs: Yes/No</li> <li><input type="checkbox"/> requires stretcher: Yes/No</li> </ul> </li> <li><input type="checkbox"/> Luggage less than 5kg       <ul style="list-style-type: none"> <li><input type="checkbox"/> use RFDS patient bag for belongings</li> </ul> </li> <li><input type="checkbox"/> Nil flammables or cigarette lighters permitted</li> <li><input type="checkbox"/> Empty all draining bags (e.g., IDC)</li> <li><input type="checkbox"/> Toileting prior to departure</li> </ul>	<p><b>IV access</b> (as indicated)</p> <p>IVC in situ - size &amp; site _____</p> <p>IVC in situ -size &amp; site _____</p> <p><b>Pre-Flight Medication Considered:</b></p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Analgesia</td> <td><input type="checkbox"/> Antiemetic</td> </tr> <tr> <td><input type="checkbox"/> Sedative</td> <td><input type="checkbox"/> Other</td> </tr> </table> <p><b>Infectious Conditions</b> e.g., MRSA, VRE</p> <p>Yes/No</p> <p>If yes, specify _____</p>	<input type="checkbox"/> Analgesia	<input type="checkbox"/> Antiemetic	<input type="checkbox"/> Sedative	<input type="checkbox"/> Other
<input type="checkbox"/> Analgesia	<input type="checkbox"/> Antiemetic				
<input type="checkbox"/> Sedative	<input type="checkbox"/> Other				

## Required Documentation

- Discharge summary - Medical/Surgical letter from referring Facility
- Observation Forms (including all recent observations)
- Current Observations (including Vital Signs, Neurological status, BGL, Neurovascular)
- Current Medication Chart (with PRN analgesia and cardiac medications, as required)
- IVT Orders & Fluid Balance Chart
- ECG's (including ECG recorded on day of transfer)
- Pathology Results
- ARP/AHD - Copy of Current
- Other: \_\_\_\_\_

## Optional Documentation

- Bariatric Chart – complete if weight >120kg
- PTSS Forms