

Autonomic Dysreflexia - Wallet Card

- Print out on A4 paper
- Cut along dotted lines
- Fold along dashed grey line and glue so printed sides are facing out.
- Fold along solid grey lines to create wallet sized info leaflet

<p>MEDICAL EMERGENCY CARD</p> <p>Autonomic Dysreflexia</p> <p>A hypertensive crisis in people with spinal cord injury at or above the 6th thoracic level.</p> <p>Name _____</p> <p>NHI _____</p> <p>This person is susceptible to autonomic dysreflexia condition of reflex sympathetic overactivity which can cause extremely high blood pressure</p> <p>THIS DEMANDS IMMEDIATE ACTION</p>	<p>MEDICAL EMERGENCY</p> <p>And is a Spinal Hypertensive Crisis OR Autonomic Dysreflexia</p> <p>Tell the operator it is DIAL 111 If glyceryl trinitrate or nifedipine do not lower the blood pressure sufficiently, the cause of the autonomic dysreflexia has not been identified, or you need advice.</p>	<p>New Zealand Spinal Trust Te Tararāhi Manaaki Tūmanu</p> <p>Produidly Supplied by Spinal Cord Society Australian & New Zealand 19/02/2019</p> <p>Endorsed by the Australian & New Zealand Spinal Cord Society</p> <p>Supporting Positive Futures</p>	<p>Note: If glyceryl trinitrate is not available or is contraindicated (e.g. within 24 hours of sildenafil use), give one 10 mg nifedipine tablet (not a slow-release tablet) crushed, mixed with water and swallowed.</p> <p>Avoid sildenafil (Viagra), vardenafil (Levitra) and tadalafil (Cialis) for at least 48 hours after a severe episode of autonomic dysreflexia.</p> <p>All recommendations are for people with a spinal cord injury at the 6th thoracic level or above. Individual therapeutic decisions must be made by combining these recommendations with clinical judgement.</p> <p>Apply 5mg transdermal patch to chest and upper arm according to the manufacturer's instructions. Remove patch once BP settles or if the BP drops too low.</p> <p>The hypotensive response should begin within 2 to 3 minutes and may last up to 30 minutes. A second spray/tablet may be given in 5 - 10 minutes if the reduction in the blood pressure is inadequate or if the blood pressure rises again.</p>
<p>WHAT IS AUTONOMIC DYSREFLEXIA?</p> <p>This is a condition of sudden high blood pressure, which may continue to rise and may cause a brain haemorrhage or fits</p> <p>The normal BP for this group of people is commonly 90/60 - 100/60mm Hg lying and lower when sitting. A BP of 130/90 mm Hg is therefore high for them. If untreated the BP can rapidly rise to extreme levels e.g. 220/140 mm Hg.</p> <p>SYMPTOMS & SIGNS</p> <p>The person may present with all or some of the following:</p> <ul style="list-style-type: none"> • Pounding headache, which gets worse as the blood pressure rises. • Blurred vision • Flushing and blotching of the skin above the level of the spinal cord injury. • Profuse sweating • Goose bumps. • Chills without fever • Bradycardia (slow pulse rate). • Hypertension (high blood pressure) 	<p>COMMON CAUSES</p> <ul style="list-style-type: none"> • Bladder irritation e.g. distended bladder, urological procedure, urine infection • Bowel irritation e.g. constipation, chemically irritant suppositories, digital dilatation. • Skin irritation, e.g. pressure sore, ingrown toenail, burns. • Other, e.g. contracting uterus, fractured bones, acute intro abdominal disease. <p><i>Patients and carers know about this condition and often can suggest the cause.</i></p> <p>TREATMENT</p> <p><i>Ask if the patient has just taken a drug to control the autonomic dysreflexia</i></p> <p>Two people are required to control the situation.</p> <ol style="list-style-type: none"> 1) Sit upright or elevate the head of the bed. Loosen clothes and remove compression stockings and abdominal binder. 2) If the person has an IDC or SPC <ol style="list-style-type: none"> I) Empty leg bag and estimate volume. To determine whether or not the bladder is empty, ask if the volume is reasonable considering fluid intake and output earlier that day. 	<ol style="list-style-type: none"> ii) Check that the catheter or tubing are not kinked or flow is not impaired by a blocked inlet to the leg bag or perished valve in the leg bag. <i>If the blood pressure > 170mm Hg systolic, start drug therapy (see 5)</i> iii) If the catheter is blocked irrigate GENTLY with no more than 30 mls of sterile water. Drain the bladder slowly - 500 ml initially and 250 ml each 15 minutes afterwards to avoid a sudden drop in blood pressure. If this is unsuccessful, recatheterise, using a generous amount of lubricant containing a local anaesthetic, e.g. 2% lignocaine jelly. iv) If the blood pressure falls after the bladder is emptied the person still requires close observation as the bladder can go into severe contractions causing hypertension to recur. Consider giving an oral anticholinergic medication, e.g. oxybutynin HCl. v) <i>Monitor the blood pressure for the next 4 hours.</i> 	<ol style="list-style-type: none"> 3) If the person does not have a permanent catheter: If the bladder is distended, lubricate the urethra with a generous amount of local anaesthetic jelly, wait two minutes, then pass a catheter to empty the bladder. Drain the bladder slowly (see 2 iii). 4) If constipation is suspected, check the rectum for faecal loading: If the rectum is full, check the blood pressure before attempting manual evacuation. if it is more than 150 mm Hg systolic, start drug treatment (see 5). Gently insert a generous amount of lignocaine jelly into the rectum and gently remove the faecal mass. <i>Note: if symptoms are aggravated, stop immediately.</i> IF NO RESPONSE. i.e. if the elevated blood pressure does not start to fall within 1 minute of the above procedures, or the cause (see opposite) cannot be determined, treat as follows.

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MEDICAL EMERGENCY CARD

Autonomic Dysreflexia

A hypertensive crisis in people with spinal cord injury at or above the 6th thoracic level.

Name

NHI

This person is susceptible to autonomic dysreflexia condition of reflex sympathetic overactivity which can cause extremely high blood pressure

THIS DEMANDS IMMEDIATE ACTION

If glyceryl trinitrate or nifedipine do not lower the blood pressure sufficiently, the cause of the autonomic dysreflexia has not been identified, or you need advice.

DIAL 111

Tell the operator it is Autonomic Dysreflexia

or Spinal Hypertensive Crisis

And is a **MEDICAL EMERGENCY**

Note: If glyceryl trinitrate is not available or is contraindicated (e.g. within 24 hours of sildenafil use), give one 10 mg nifedipine tablet (not a slow-release tablet) crushed, mixed with water and swallowed.

Avoid sildenafil (Viagra), vardenafil (Levitra) and tadalafil (Cialis) for at least 48 hours after a severe episode of autonomic dysreflexia

All recommendations are for people with a spinal cord injury at the 6th thoracic level or above. Individual therapeutic decisions must be made by combining these recommendations with clinical judgement.

Endorsed by the Australian & New Zealand Spinal Cord Society 19/02/2019

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WHAT IS AUTONOMIC DYSREFLEXIA?
This is a condition of sudden high blood pressure, which may continue to rise and may cause a brain haemorrhage or its lower normal BP for this group of people is commonly 90/60 - 100/60mm Hg (systolic and diastolic). A BP of 130/90 mm Hg is therefore high for them. If untreated the BP can rapidly rise to extreme levels e.g. 220/140 mm Hg.

SYMPTOMS & SIGNS
The person may present with all or some of the following:
• Founding headache, which gets worse as the blood pressure rises.
• Blurred vision
• Flushing and blotching of the skin above the level of the spinal cord injury.
• Profuse sweating
• Goose bumps
• Chills without fever
• Bradycardia (slow pulse rate).
• Hypertension (high blood pressure)

COMMON CAUSES
• Bladder irritation e.g. distended bladder, urinary procedure, urine infection
• Bowel irritation e.g. constipation, chemically irritant suppositories, digital dilatation.
• Skin irritation, e.g. pressure sore, ingrown toenail, burns.
• Other, e.g. contracting uterus, fractured bones, acute intro abdominal disease.
TREATMENT
Patients and carers know about this condition and often can suggest the cause.

control the autonomic dysreflexia
Two people are required to control the situation.
(1) Sit upright or elevate the head of the bed. Loosen clothes and remove compression stockings and abdominal binder.
(2) If the person has an IDC or SPC (1) Empty leg bag and estimate volume. To determine whether or not the bladder is empty, ask if the volume is reasonable considering fluid intake and output earlier that day.

hours.
v) Monitor the blood pressure for the next 4 hours.
iv) If the blood pressure falls after the bladder is emptied the person still requires close observation as the bladder can go into severe contractions causing hypertension to recur. Consider giving an oral anticholinergic medication, e.g. oxybutynin HCl.
iii) If the blood pressure > 170mm Hg systolic, start drug therapy (see 5)

ii) Check that the catheter or tubing are not kinked or flow is not impaired by a blocked inlet to the leg bag or perished valve in the leg bag.
iii) If the blood pressure is blocked irrigate GENTLY with no more than 30 mls of sterile water. Drain the bladder slowly - 500 ml initially and 250 ml each 15 minutes afterwards to avoid a sudden drop in blood pressure. If this is unsuccessful, recatheterise, using a generous amount of lubricant containing a local anaesthetic.
iv) If the blood pressure falls after the bladder is emptied the person still requires close observation as the bladder can go into severe contractions causing hypertension to recur. Consider giving an oral anticholinergic medication, e.g. oxybutynin HCl.

3) If the person does not have a permanent catheter.
If the bladder is distended, lubricate the urethra with a generous amount of local anaesthetic jelly, wait two minutes, then pass a catheter to empty the bladder.
4) If constipation is suspected, check the rectum for faecal loading.
If the rectum is full, check the blood pressure before attempting manual evacuation.
If it is more than 150 mm Hg systolic, start drug treatment (see 5).
Gently insert a generous amount of lignocaine jelly into the rectum and gently remove the faecal mass.
Note: If symptoms are aggravated, stop immediately.
IF NO RESPONSE, i.e. if the elevated blood pressure does not start to fall within 1 minute of the above procedures, or the cause (see opposite) cannot be determined, treat as follows.

5) Glyceryl trinitrate.
Note: if the patient has been on PDE5 Inhibitors (Viagra, Cialis, Levitra) in the last 24 hours, instead of GTN give Nifedipine 10mg sublingual or a crushed tablet under the tongue.
OR
Place a glyceryl trinitrate tablet (Anginine) under the tongue.
OR
Apply 5mg transdermal patch to chest and upper arm according to the manufacturer's instructions. Remove patch once BP settles or if the BP drops too low.
The hypotensive response should begin within 2 to 3 minutes and may last up to 30 minutes. A second spray/tablet may be given in 5 - 10 minutes if the reduction in the blood pressure is inadequate or if the blood pressure rises again.