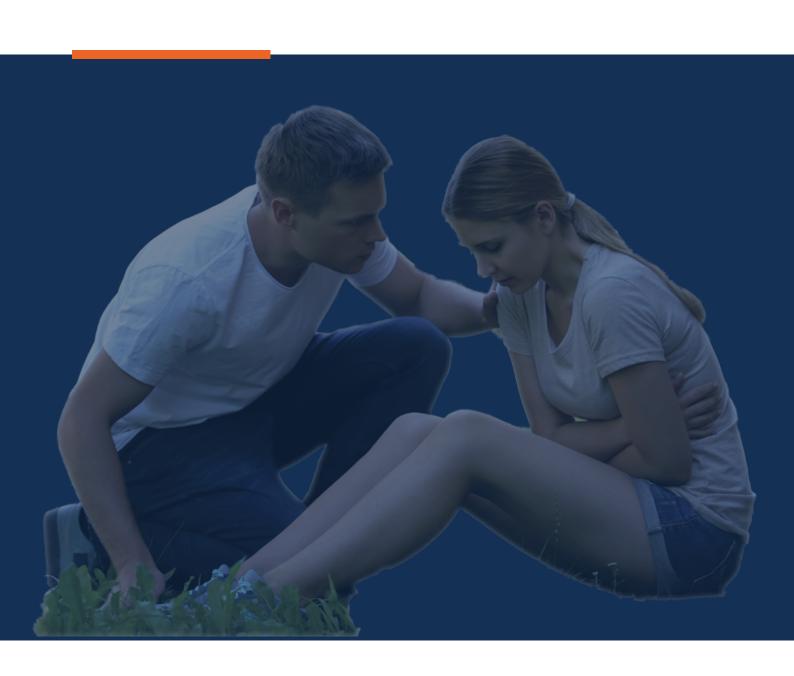


Comprehensive First Aid Manual





Welcome to our Comprehensive First Aid Manual

In these pages, you'll find a wealth of information designed to equip you with the knowledge and skills necessary to confidently and effectively respond in times of medical emergencies. As you navigate through this manual, you'll learn crucial steps for providing immediate, temporary care to those in need, while awaiting professional medical assistance.

This manual covers a broad range of topics, from understanding basic first aid principles to dealing with specific medical emergencies such as injuries, burns, cardiac arrest, heatstroke, and more. It also provides guidance on ageappropriate first aid, special considerations for infants and children, and the nuances of administering first aid in the workplace.

Remember, first aid is a first response, not a substitute for professional medical help. It's about acting swiftly and calmly to preserve life, prevent the situation from worsening, and promote recovery.

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Contents

Introduction	
What is First Aid?	6
Workplace First Aid	7
First Aid Kits	8
Duty of Care	9
Maintaining Dignity and Respect	10
Implied Consent	11
Resuscitation	
Chain of Survival	12
DRSABCD Action Plan	13
Assessing Danger	14
Use of PPE	15
Response	16
Send for Help	17
Airway	18
Airway - Children and Infants	19
Breathing	20
Recovery Position	21
Adult CPR	22
Child CPR	23
Infant CPR	24
Defibrillation	25
Stopping Resuscitation	26
Injuries	
Abdominal Injuries	28
Minor Wounds	29
Severe Bleeding	30
Hemostatic Dressing	31
Internal Bleeding	32
Burns	34
Choking - Adult	36
Choking - Child and Infant	38
Crush Injuries	40
Ear Injuries	41
Electric Shock	42
Eye Injuries	43
Fractures	44
Dislocations	45
Slings	46
Splints	48
Head Injuries	49
AVPU Scale	50

Motor Vehicle Accidents	51
Needle Stick Injuries	52
Soft Tissue Injuries	53
Spinal Injuries	54
Medical	
Agitated Person	56
Allergic Reaction/Anaphylaxis	57
Using an Anapen	59
Using an EpiPen	60
Asthma	62
Diabetes	64
Heart Attack	66
Heart Conditions (angina)	67
Rapid Breathing	69
Seizures	70
Shock	71
Stroke	72
Environment	
Bee Stings	74
Spider Bites- General	75
Funnel Web Spider Bites	76
Snake Bites	77
Tick Bites	78
Pressure Immobilisation Bandage	79
Blue Ring Octopus Bites	80
Cone Shell Stings	81
Fish Stings/Injury	82
Jellyfish Stings	83
Drowning	85
Hypothermia	86
Heat Illness	87
Hyperthermia	88
Poisoning	89
First Aid for Care Givers	
Physiological Differences	90
Communication and Distraction	91
Signs of Acute Illness	92
Febrile Convulsions	93
Croup	94
Skin Rashes	95

Additional First Aid

Secondary Survey	96
PILSDUCT	97
Triage	98
Debriefing	99
Emotions Involved in First Aid	100
Incident Report Forms	101



What is First Aid?

First aid is the immediate care provided to a person who has been injured or suddenly becomes ill. It includes self-care and care to others, as well as being an important initial step in the health care system. The main goals of first aid are to preserve life, prevent further harm, and promote recovery.

Here are some examples of situations where first aid knowledge can be crucial:

- 1. Cardiac Emergencies: If someone is suffering from a heart attack or cardiac arrest, immediate first aid in the form of cardiopulmonary resuscitation (CPR) can significantly improve their chances of survival.
- 2. Breathing Emergencies: For conditions like asthma attacks, choking, or near-drowning incidents, first aid can help restore normal breathing and prevent further complications.
- 3. Trauma: In cases of injuries like fractures, burns, or wounds, first aid can help manage pain, prevent infection, and start the healing process.
- 4. Heatstroke or Hypothermia: Proper first aid can regulate the person's body temperature and prevent severe damage.





It's important to note that first aid does not replace professional medical help. It is a critical first step to help manage a medical emergency until professional medical help arrives. Regular first aid training is recommended to keep skills and knowledge up to date.

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Workplace First Aid

Workplace first aid requirements in Australia are governed by the Model Work Health and Safety (WHS) laws, which have been implemented in most states and territories. These laws require employers to ensure that their workplace has adequate first aid equipment and facilities, and that there are suitable arrangements in place for providing first aid.

The following factors are typically considered when determining what is 'adequate':

- 1. The nature of the work and workplace.
- 2. The type of hazards present.
- 3. The size and location of the workplace.
- 4. The number and composition of the workers and other people.

Each workplace's requirements can vary, but might include having a first aid kit, appointing a trained first aid officer, and/or having a dedicated first aid room, among other measures. Specifically, these might include:

- 1. First Aid Kits: Should be easily accessible, maintained in good condition and restocked as necessary. The type of kit required may vary depending on the workplace.
- 2. First Aid Officers: A sufficient number of workers should be trained to administer first aid at the workplace or have access to an external provider that can arrive at the workplace within a reasonable time.
- 3. First Aid Procedures: Procedures should be developed for managing emergencies and these should be communicated to all staff.
- 4. First Aid Rooms and Facilities: Depending on the size and risk of the workplace, a dedicated first aid room may be required.

The Safe Work Australia website provides a comprehensive guide to first aid in the workplace. This guide can help employers identify their specific requirements based on the nature of their workplace and work.

In addition to these general requirements, certain industries may have additional regulations that they need to follow. Therefore, it is advisable to refer to your specific state or territory's WHS regulator's website or contact them directly for more detailed and specific advice. It is also worth noting that employers are required to consult with their workers when making decisions about first aid in the workplace.

First Aid Kits

The contents of a first aid kit can vary depending on the specific needs of a workplace, home, or individual. However, a basic first aid kit often includes the following items:

- 1. Adhesive bandages of various sizes for minor cuts, blisters, and abrasions.
- 2. Sterile dressings and bandages for larger wounds and injuries.
- 3. Adhesive tape for securing dressings.
- 4. Antiseptic wipes or solution for cleaning wounds.
- 5. Tweezers for removing splinters or debris from wounds.
- 6. Scissors for cutting tape, clothing, or bandages.
- 7. Safety pins to secure bandages.
- 8. Disposable gloves for infection control.
- 9. Resuscitation mask for performing CPR.
- 10. Eye wash solution for flushing the eyes or as a general decontaminant.
- 11. A digital thermometer.
- 12. A first aid manual or instruction booklet.

The number and type of first aid kits you need can depend on several factors:

- 1. Workplace Size and Layout: In a larger workplace, or one spread over multiple floors or buildings, multiple kits may be necessary to ensure they're within easy reach in case of an emergency.
- 2. Number of Employees: More kits may be needed in workplaces with a larger number of employees.
- 3. Nature of Work: If your workplace has a higher risk of injury, such as a construction site, you may need more kits, and they may need to contain additional specific items.
- 4. Specific Needs: Certain environments or individuals may have specific first aid requirements. For example, a kit in a school might contain items like ice packs and sting relief solution, while a kit for an individual with severe allergies might include an adrenaline auto-injector.

Consult the Safe Work Australia's Code of Practice for First Aid in the Workplace for more specific guidance. However, always consider your specific circumstances and seek advice if necessary. It's also a good idea to regularly review your first aid requirements to ensure they continue to meet your needs as they change.

Duty of Care

In Australia, a duty of care is a legal obligation which is imposed on an individual requiring that they adhere to a standard of reasonable care while performing any acts that could foreseeably harm others. When it comes to first aid, anyone who undertakes to provide first aid care, whether they are a trained first aider in a workplace or a bystander at an accident, also undertakes a duty of care towards the injured person.

This means that once assistance has commenced, you have a legal duty to continue providing care until it is no longer required or until someone with equal or greater training takes over. It also means that care should be provided in a competent and reasonable manner.

Here are some key considerations:

Consent: Before providing first aid to a conscious victim, it's important to get their consent. If they're unable to provide consent due to their condition, consent is implied in an emergency situation.

Do No Harm: You should only provide care to the level of your training and capabilities. Attempting procedures or treatments beyond your competence could potentially cause more harm and may lead to legal issues.

Confidentiality: As a first aider, you may become aware of personal and medical information about the person you are helping. This information should be kept confidential and shared only with medical professionals who take over the care, or as required by law.

Negligence: If you agree to provide first aid, you must do so in a non-negligent manner. This means providing care in a competent and reasonable way according to the standard of a reasonably competent person with your level of training.

Abandonment: Once you start providing care, you should continue to do so until medical help arrives, the scene becomes unsafe, or you become too exhausted to continue.

It's also worth mentioning that in Australia, all states and territories have some form of 'Good Samaritan' legislation, which generally protects individuals who provide assistance in an emergency situation in good faith and without expectation of payment from legal liability.

Maintaining Dignity and Respect

Maintaining the dignity and respect of a casualty is a fundamental aspect of first aid. It helps to build trust, reduces anxiety, and can improve the effectiveness of care. Here are detailed steps that a first aider can take to maintain the dignity and respect of a casualty they are treating:

- 1. **Obtain Consent:** Always seek consent before providing any first aid care. If the person is conscious and able to understand, explain what you plan to do and ask for their permission. For an unconscious casualty, it is generally understood that consent is given.
- 2. **Maintain Privacy:** As much as possible, protect the person's privacy. This might mean using a blanket or screen or asking others to move away, particularly when dealing with sensitive areas of the body or removing clothing.
- 3. **Communicate Clearly:** Speak to the casualty in a clear, calm, and respectful manner. Explain what is happening, what you are doing, and why. Use language they can understand and check that they have understood you.
- 4. **Respect Cultural Differences:** Be aware of and respect cultural, religious, or personal beliefs that may impact how care is given.
- 5. **Involve the Person:** Allow the person to do as much for themselves as they can, and involve them in decisions about their care where possible. This can help them feel more in control of the situation.
- 6. **Handle with Care:** When physical contact is necessary, be gentle and considerate. If you must touch or move a sensitive area, explain why and what you will do before you proceed.
- 7. **Promote Comfort:** Make the person as comfortable as possible. This might mean providing a blanket or cushion, giving reassurance, or adjusting their position carefully and safely.
- 8. **Maintain Confidentiality:** Personal and medical information that the casualty shares should remain confidential. Only share this information with medical professionals who need the information to provide further care.
- 9. **Be Professional:** Treat the person with kindness, patience, and empathy. Remain non-judgmental and focused on providing the best care you can.

By following these guidelines, a first aider can help to maintain a casualty's dignity and respect. This is not only ethically important, but can also help to reduce stress and anxiety, contributing to better health outcomes

Implied Consent

In a first aid context, consent is implied under specific circumstances when a casualty is unable to provide explicit consent. These situations generally include:

1. **Unconsciousness:** If a person is unconscious or incapacitated due to the severity of their condition, it is usually assumed they would want life-saving or stabilising treatment, so consent is implied.

2. **Severe Mental Alteration:** In cases where the casualty's mental state is severely altered due to illness, injury, or substance use, and they cannot understand the situation or the need for treatment, consent may be implied.

3. **Minors in Life-threatening Emergencies:** If a minor is in a life-threatening situation and a parent or legal guardian is not immediately available to give consent, it is generally

understood that implied consent applies.

Implied consent assumes that a reasonable person would wish to receive first aid care in a critical or life-threatening situation. It's important to note that when the person regains consciousness or capacity, they have the right to refuse further treatment, and their wishes must be respected.

However, it is always recommended to obtain explicit consent whenever possible. As always, laws and guidelines regarding implied

consent can vary based on location, so it is important for first aiders to familiarize themselves with the regulations in their specific region or

country.



Chain of Survival

The Chain of Survival is a term used in emergency medicine to describe a series of critical actions that, when implemented in a timely and sequential manner, can significantly improve the chances of survival following certain emergencies, particularly cardiac arrest. The concept is applicable in many emergency scenarios and is used to educate both the public and healthcare providers.



- 1. **Early Access:** The first link in the chain is recognising a medical emergency and calling for professional help as quickly as possible. This involves identifying the signs of cardiac arrest, such as unconsciousness and lack of normal breathing, and calling Triple Zero (000) for emergency assistance right away.
- 2. **Early Cardiopulmonary Resuscitation (CPR):** The second link involves initiating CPR immediately after recognising cardiac arrest. CPR is a combination of chest compressions and rescue breaths that help maintain the flow of oxygen-rich blood to the brain and other vital organs. This link is crucial as every minute without CPR reduces the chance of survival by approximately 10%.
- 3. **Early Defibrillation:** The third link is defibrillation, which involves delivering a controlled electrical shock to the heart through a device known as an automated external defibrillator (AED). Defibrillation can restore a normal heart rhythm in people experiencing certain types of cardiac arrest. Public access to AEDs in the community can significantly increase the rate of survival.
- 4. **Early Advanced Care:** The fourth link is the arrival of professional medical responders who can provide advanced life support. Paramedics, for instance, can provide advanced airway management, administer medications, and continue CPR and defibrillation. They can also begin to identify and treat the underlying cause of the cardiac arrest.

Remember that each step in the Chain of Survival is critical. The sooner each step is begun, and the more smoothly the transition from one step to the next, the greater the chances of a person surviving a cardiac arrest. Regular training in basic life support, including CPR and defibrillator use, can equip people to effectively initiate this chain and potentially save lives.

DRSABCD Action Plan

In a first aid emergency, the priorities can often be remembered using the acronym 'DRSABCD', which stands for:

- 1. **Danger:** Check the area for any potential dangers to you, bystanders, or the casualty. Your own safety is the first priority, because if you become injured, you won't be able to help others.
- 2. **Response:** Check if the casualty is responsive. Ask them guestions like "Are you OK?" to assess their level of consciousness.
- 3. **Send for help:** If needed, call emergency services (in Australia, dial Triple Zero 000). Give clear, concise details about the location and condition of the patient.
- 4. **Airway:** Check the casualty's airway to ensure it's clear. If the person is unconscious, turn them onto their side and open their mouth to allow any fluid to drain, which will help keep the airway clear.
- 5. **Breathing:** Check if the casualty is breathing normally. Look, listen, and feel for breathing by watching the chest, listening for breath sounds, and feeling for breath on your cheek.
- 6. **CPR:** If the person isn't breathing, start cardiopulmonary resuscitation (CPR) immediately. This involves giving 30 chest compressions followed by 2 rescue breaths.

7. **Defibrillation:** If the person's heart has stopped (cardiac arrest) and a defibrillator is available, follow its voice prompts to give a shock. Defibrillation is an essential step in the chain of survival for a cardiac arrest.

burns, or supporting a broken limb. Always stay with the patient until medical help arrives. It's important to keep them calm and reassured while monitoring for any changes in their condition.



Assessing Danger

Assessing danger is a crucial first step in the DRSABCD (Danger, Response, Send for help, Airway, Breathing, CPR, Defibrillation) action plan used in first aid. The main purpose of assessing danger is to ensure the safety of both the rescuer and the casualty from any potential risks in the environment. This can be broken down into a few detailed steps:

- 1. Evaluate the Surrounding Environment: Before rushing in to help, take a moment to survey the scene from a safe distance. Look out for hazards such as traffic, fire, hazardous materials, unstable structures, or electrical equipment.
- 2. Determine the Nature of the Incident: This can help you identify potential dangers. For instance, if a person has fallen from a height, there may be a risk of loose debris. If the casualty is in water, there may be risks associated with entering the water to reach them.
- 3. Consider Other Factors: Are there any other potential threats? This could include aggressive or distressed bystanders, dangerous animals, or extreme weather conditions.
- 4. Control Identified Hazards: If safe to do so, remove or mitigate hazards. This might mean turning off electricity, moving objects, or diverting traffic.
- 5. Use Appropriate Personal Protective Equipment (PPE): If available, use gloves, masks, or other PPE to protect yourself from exposure to bodily fluids and potential infectious diseases.

Remember, your own safety is the priority. If the scene is not safe, do not approach. Instead, call emergency services and wait for professional help. You will be no help to the casualty if you become a casualty yourself.

Once you've ensured the scene is safe, you can then continue with the next steps of the DRSABCD action plan - checking the casualty's response, sending for help, and so on. Regular first aid training is crucial to ensure you're able to accurately assess danger and respond appropriately in a first aid situation.



Use of PPE

In a first aid situation, Personal Protective Equipment (PPE) is vital to protect yourself and others from potential hazards and infections. Here are some commonly used PPE items and how to use them:

- 1. **Gloves:** Medical gloves create a protective barrier between you and the patient, reducing the risk of transmission of infectious diseases through contact with blood or other body fluids. They should be worn whenever there is a possibility of coming into contact with body fluids or broken skin. To apply, simply pull the gloves onto your hands, ensuring all areas of the skin are covered. After use, gloves should be removed without touching the outside and disposed of properly.
- 2. **Face Masks:** A mask protects both you and the patient from potential respiratory droplets, reducing the risk of transmission of diseases such as COVID-19 or influenza. To apply, ensure the mask covers both your nose and mouth completely. Secure the mask using ear loops or ties, and make sure it fits snugly against your face without gaps on the sides. Remember to avoid touching the front of the mask when removing it, and discard it properly after use.
- 3. **Eye Protection:** Goggles or face shields protect your eyes from splashes or sprays of body fluids or other hazardous substances. They should be used when there is a risk of splashes, such as when dealing with severe bleeding or during CPR. To apply, position the protection over your eyes, ensuring it fits securely. After use, clean and disinfect reusable eye protection according to the manufacturer's instructions, or dispose of single-use items.
- 4. **Gowns or Aprons:** These provide a barrier protecting your clothes and skin from body fluids or harmful substances. They should be used in high-risk situations where splashes are likely. To apply, put your arms through the sleeves (if applicable), and secure the gown at the back. After use, remove it without touching the front, and dispose of it properly.

Remember, all PPE should be applied and removed in a way that avoids contaminating your skin or clothing. It's also important to perform hand hygiene by washing your hands with soap and water, or using an alcohol-based hand sanitiser, before putting on and after taking off PPE.

The types of PPE required can vary based on the specifics of the situation and the level of potential risk. Therefore, having a well-stocked and accessible first aid kit, including PPE, is crucial. Regular training in its use is also recommended to ensure you can effectively protect yourself and others when providing first aid.

Response

As part of the DRSABCD (Danger, Response, Send for help, Airway, Breathing, CPR, Defibrillation) action plan, the second step after ensuring the area is safe (Danger) is to check for a Response from the individual.

This step aims to determine the person's level of consciousness and whether they can respond to external stimuli. To check for a response:

- 1. **Get Down to Their Level:** Position yourself at the same level as the person so you can comfortably assess them without causing further harm.
- 2. **Call Out to Them:** Ask loudly but calmly, "Can you hear me?" or "Are you okay?" This tests their ability to hear, understand, and respond.
- 3. **Tap and Squeeze:** If there is no response to your verbal communication, gently tap on their shoulder or squeeze their hand and observe for any reaction. This checks their physical responsiveness.
- 4. **Check for Other Signs of Response:** This could include groaning, movement, or opening of the eyes. Any reaction can be an indication of consciousness.

If the person responds, they are conscious and you can continue to provide assistance as necessary. Make sure they remain comfortable and help them to stay calm until further medical help arrives.

If the person does not respond, they are unconscious and it is critical to call for emergency help immediately. In Australia, you would call Triple Zero (000) and then continue with the DRSABCD action plan, checking their airway, breathing, starting CPR if necessary, and preparing for defibrillation.



Send for Help

In the DRSABCD (Danger, Response, Send for help, Airway, Breathing, CPR, Defibrillation) first aid action plan, "Send for help" is the third step, immediately following "Danger" and "Response". The step "Send for help" is crucial in getting the person the advanced medical care they may need as quickly as possible.

Here is a detailed guide on how to "Send for help":

- 1. Dial Emergency Services: In Australia, you would dial Triple Zero (000) to reach emergency services. When you dial, stay on the line until you are instructed to hang up.
- 2. Communicate Clearly: When connected, you'll be asked for specific details about the situation. Speak clearly and calmly. Provide your exact location first, so even if the call disconnects, help can still be sent. Also, describe the condition of the person needing assistance, including whether they're conscious or unconscious, whether they're breathing, and any known injuries or medical conditions.
- 3. Follow Instructions: The operator on the line will guide you through steps to assist the casualty while help is on the way. These instructions may include how to perform CPR or use an Automated External Defibrillator (AED). Listen carefully and follow these instructions to the best of your ability.
- 4. Have Someone Flag Down Help: If possible, have another person nearby stand out front to flag down the arriving emergency responders. This can expedite the process, ensuring that the person gets the help they need as quickly as possible.
- 5. Do Not Hang Up: Stay on the line with the emergency operator until professional help arrives, unless the operator tells you to hang up. They can provide vital support and instructions during this critical time.

Remember, in an emergency situation, every second counts. The sooner you send for help, the sooner the person can receive advanced medical care. It is essential that everyone knows their country's emergency number and understands the importance of not delaying this call when someone's health is in immediate danger.

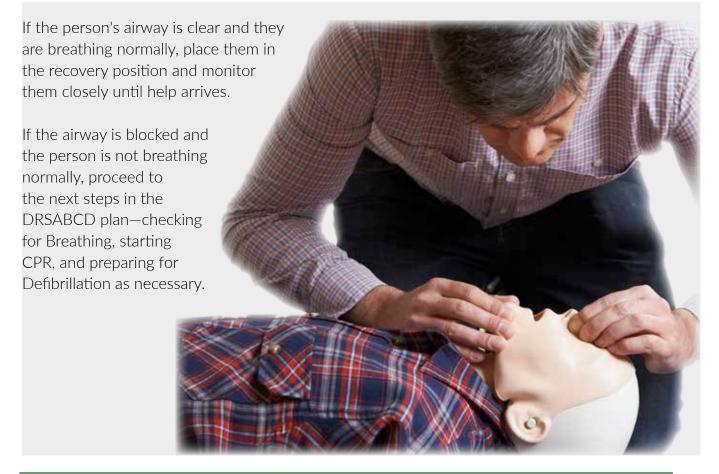
In addition, consider taking a first aid course to learn more about the DRSABCD action plan and other life-saving skills. Proper training can give you the knowledge and confidence to act effectively and promptly in an emergency.

Airway

In the DRSABCD (Danger, Response, Send for help, Airway, Breathing, CPR, Defibrillation) first aid action plan, the fourth step is to check the person's Airway.

Ensuring a clear airway is essential, as an obstructed airway can prevent oxygen from reaching the lungs and the rest of the body, leading to serious complications or even death. Here's how to check the airway:

- 1. Position the Person: If the person is unconscious and unresponsive, carefully roll them onto their back if they are not already in that position. Ensure their head and neck are straight. If you suspect a neck injury, try to limit the movement of the neck as much as possible.
- 2. Open the Airway: Tilt the person's head back slightly by placing one hand on their forehead and gently lifting the chin with two fingers of the other hand. This is called the head-tilt, chin-lift maneuver, and it helps to open the airway by moving the tongue away from the back of the throat.
- 3. Check for Obstructions: Look inside the mouth. If you see any obvious blockage (such as food, vomit, or a foreign object), promptly roll the person into the recovery position to clear the airway. Avoid a blind finger sweep which may push the obstruction further down.



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Airway - Children and Infants

While the general principles of checking the airway in the DRSABCD (Danger, Response, Send for help, Airway, Breathing, CPR, Defibrillation) action plan remain the same, there are specific considerations to keep in mind for children and infants:

For Children:

- 1. Gentle Movements: A child's body is smaller and more fragile than an adult's, so you'll need to be more gentle when positioning them and performing the head-tilt, chin-lift maneuver.
- 2. Age-appropriate head-tilt: In younger children, be careful not to tilt the head back too far as this can actually block their airway. A neutral position or very slight tilt is usually sufficient.

For Infants (Under 1 Year Old):

- 1. Positioning: When checking an infant's airway, it can often be easiest to place them on your forearm, face down, while you are seated. This allows gravity to help clear the airway, and you can support their head and neck easily in the crook of your arm.
- 2. Modified Techniques: Do not perform a full head-tilt, chin-lift maneuver on an infant as you might with an adult or older child. Instead, place your hand on the infant's forehead while gently lifting the chin with your other hand to keep the airway open. Again, the goal is a neutral or slightly extended position, not a full tilt.
- 3. Finger Sweep: Never perform a blind finger sweep in an infant's mouth. If you see a visible obstruction and you believe you can remove it safely without pushing it further down, you may use a little finger to remove it.

Remember that children and infants may be more prone to certain types of airway obstruction, such as choking on small toys or food, so always check the airway carefully.



Breathing

In the DRSABCD (Danger, Response, Send for help, Airway, Breathing, CPR, Defibrillation) first aid action plan, the fifth step is checking for Breathing.

Once you've checked the person's airway and ensured it's clear, you'll need to check if they're breathing. This is critical because if someone isn't breathing or isn't breathing normally, they will require immediate medical assistance, including potentially CPR (Cardiopulmonary Resuscitation). Here's how to check for breathing:

- 1. **Look, Listen, and Feel:** Put your face close to the person's mouth and nose, looking down towards their chest. Look for regular chest movements, listen for breath sounds, and try to feel the person's breath against your cheek.
- 2. Check Breathing for up to 10 Seconds: Take no more than 10 seconds to do these checks. In adults and children, you're looking for normal breathing (regular, consistent, and more than occasional gasps). For infants, you're looking for effective regular breathing.
- 3. **Evaluate the Breathing:** If the person is not breathing or not breathing normally, begin CPR. 'Not breathing normally' often refers to agonal gasps, which are irregular, infrequent, and inadequate breaths that can be present for a short while after the heart stops.
- 4. **Unresponsive and Breathing:** If the person is unresponsive but breathing normally, manage the casualty by placing them in the recovery position, continue to monitor vitals and wait for help to arrive.

Remember that the way you check for breathing may be different in children and infants. For example, in infants, you should also observe for movement, as infants may have periodic breathing.



Recovery Position

The recovery position is used to help keep an unconscious person's airway clear if they are breathing and have no other life-threatening conditions. It helps ensure that any vomit or fluid will not cause choking.

Here are the steps to place an adult in the recovery position:

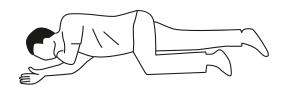
- 1. **Safety First:** Ensure that both you and the person are safe. Make sure there's no immediate danger in your surroundings that can harm either of you.
- 2. **Kneel Down:** Kneel beside the person who is lying on their back.
- 3. **Position Arms:** Place the person's arm that's nearest to you at a right angle to their body. The elbow should be bent with the hand pointing upwards. Then, take their far arm, and cross it over their chest so the back of their hand is against their near cheek.
- 4. **Raise Knee:** Get hold of the person's far knee and pull it up so that their leg is bent.
- 5. **Roll Over:** While keeping their hand pressed against their cheek, pull on their bent knee to roll them towards you. They should now be lying on their side, facing you, with their body weight distributed between their side and arm.
- 6. **Adjust the Leg:** The top leg should be bent at the knee, with the back of the knee touching the ground to help stabilize the position.
- 7. **Tilt the Head:** Gently tilt the head backward to keep the airway open. Make sure the mouth is facing downward so any fluid can drain.
- 8. Call for Help: If you have not already done so, call emergency services.

Please note, the method may need to be adjusted depending on the person's injuries.









Adult CPR

Cardiopulmonary Resuscitation (CPR) is a lifesaving technique that is used when someone's heartbeat or breathing has stopped. Here are the steps to perform CPR on an adult casualty.

- 1. Follow the initial steps of DRSABCD
- 2. **Position Your Hands:** Kneel beside the person. Place the heel of one hand on the centre of the person's chest (on the lower half of the sternum, or breastbone). Put your other hand on top of the first. Interlock your fingers, ensuring that your fingers are not on the ribs.
- 3. **Compressions:** Lean over the person with your arms straight, and press down hard and fast, compressing the chest at least one-third the depth of the chest, approximately 5cm to 6cm. The compression rate should be 100 to 120 compressions per minute. Allow the chest to recoil (rise) completely between compressions.
- 4. **Rescue Breaths:** After 30 compressions, give two rescue breaths. To do this, open the person's airway by tilting the head back and lifting the chin. Pinch the person's nose shut, take a normal breath, and cover the person's mouth with yours, creating an airtight seal. Give a breath over one second that makes the person's chest rise. Repeat for the second breath.
- 5. **Repeat Cycles:** Continue with cycles of 30 chest compressions and 2 rescue breaths until professional help arrives, an automated external defibrillator (AED) is ready to use, the person shows signs of life like moving, opening their eyes or breathing normally, or until you are too exhausted to continue.

Remember to minimise interruptions to chest compressions. If you are not confident with, or physically unable to perform rescue breaths, perform compression-only CPR. This should be continuous at a rate of 100-120 per minute.

Child CPR

CPR for children (aged 1 to 9 years old) involves similar steps to adult CPR, but with some important differences to cater for their size and physiological differences. Ensure Safety: Ensure the area is safe for both you and the child.

- 1. Follow the initial steps of DRSABCD
- 2. **Position Your Hands:** Kneel beside the child. For a child, you may only need to use one hand. Place the heel of your hand on the centre of the child's chest (on the lower half of the sternum, or breastbone). If needed, place your other hand on top of the first. Ensure that pressure is not being applied to the child's ribs.
- 3. **Compressions:** Lean over the child with your arm(s) straight, and press down at least one-third the depth of the child's chest, approximately 5cm. The compression rate should be 100 to 120 compressions per minute. Allow the chest to fully recoil (rise) between compressions.
- 4. **Rescue Breaths:** After 30 compressions, give 2 rescue breaths. Open the child's airway by tilting the head and lifting the chin. Pinch the child's nose shut, take a normal breath, and cover the child's mouth with yours, making an airtight seal. Give a breath over one second that makes the child's chest rise. Repeat for the second breath.
- 5. **Repeat Cycles:** Continue with cycles of 30 chest compressions and 2 rescue breaths until professional help arrives, an automated external defibrillator (AED) is ready to use, the child shows signs of life like moving, opening the eyes or breathing normally, or until you are too exhausted to continue.

Minimise interruptions to chest compressions. If you are not confident with or unable to perform rescue breaths, perform compression-only CPR. This should be continuous at a rate of 100-120 per minute.

Infant CPR

Performing CPR on an infant (under 1 year of age, excluding newborns) requires extra care due to their size and fragility.

- 1. Follow the initial steps of DRSABCD
- 2. **Position Your Hands:** Place the infant on a firm surface. Locate the centre of the baby's chest. Use only two fingers (the middle and index fingers) of one hand to give compressions, just below the nipple line.
- 3. **Compressions:** Press down approximately one-third of the chest depth, roughly 4cm, at a rate of 100 to 120 compressions per minute. Allow the chest to fully recoil (rise back) between compressions.
- 4. **Rescue Breaths:** After 30 compressions, give 2 rescue breaths. Open the infant's airway by placing one hand on the forehead and gently tilting the head back while lifting the chin. Cover the baby's mouth and nose with your mouth and give two gentle breaths, each lasting about 1 second and sufficient to make the chest visibly rise.
- 5. **Repeat Cycles:** Continue with cycles of 30 chest compressions and 2 rescue breaths until professional help arrives, an automated external defibrillator (AED) is ready to use, the infant shows signs of life like moving or breathing normally, or you're too exhausted to continue.

Minimise interruptions to chest compressions. If you are not confident in giving rescue breaths, perform compression-only CPR at a rate of 100-120 compressions per minute.

Defibrillation

An Automated External Defibrillator (AED) is a life-saving device used in situations of sudden cardiac arrest, a condition where the heart abruptly stops beating effectively. The AED works by analysing the heart's electrical activity and delivering a shock if necessary to restore a normal heart rhythm.

Here is how an AED fits into the DRSABCD action plan:

- **D Danger:** Ensure that the area is safe for both yourself and the casualty.
- R Response: Check for responsiveness. If there is no response...
- **S Send for help:** Dial Triple Zero (000) for an ambulance in Australia.
- A Airway: Open the airway by tilting the head with chin lift.
- **B Breathing:** Check if the person is breathing. If the person is not breathing or not breathing normally, start CPR (30 compressions : 2 breaths).
- **C Compressions/CPR:** Start chest compressions and rescue breaths at a ratio of 30:2. After each set of 30 chest compressions, give 2 rescue breaths.
- **D Defibrillation:** This is where the AED comes in. As soon as the AED is available, it should be used. Here is a step-by-step guide:
 - 1. Turn on the AED: This usually involves opening the lid or pressing the 'on' button.
 - 2. **Attach the pads:** Expose the casualty's chest. Attach the AED pads to the casualty's bare chest as indicated in the diagrams on the back of the pads. One pad should be placed to the right of the sternum, below the collarbone. The other should be placed to the left of the sternum, side of the chest, just below the armpit. For children under 8 years or less than 25kg, paediatric pads should be used if available.
 - 3. **Let the AED analyse:** Make sure no one is touching the casualty. The AED will analyse the casualty's heart rhythm. Follow the voice prompts of the AED.
 - 4. **Deliver the shock:** If the AED advises a shock, ensure everyone is clear of the casualty and say loudly "stand clear". Then, press the shock button as directed by the AED.
 - 5. **Continue CPR:** Immediately after the shock, resume CPR starting with chest compressions. Continue until the person shows signs of life or professional help arrives.

In Australia, anyone can use an Automated External Defibrillator (AED), and you are not legally required to have completed AED training. The AED is designed to be used by the general public and provides voice prompts to guide the user through the process.

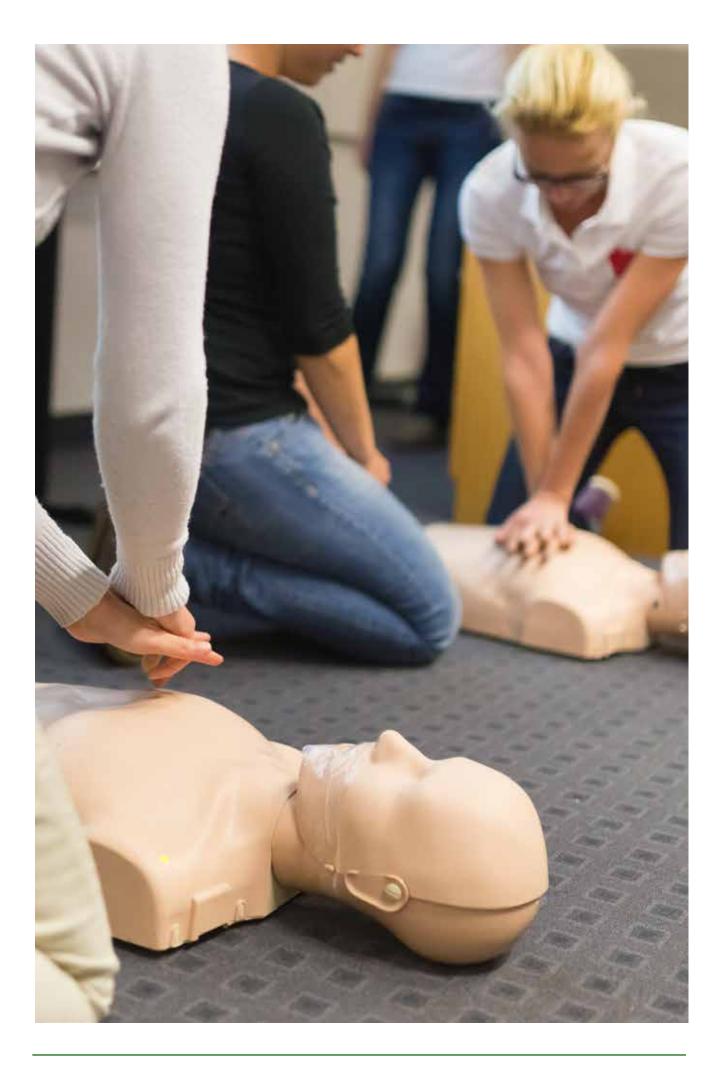
It's important to remember that in a cardiac arrest, the sooner CPR and defibrillation are initiated, the better the person's chance of survival. Therefore, do not hesitate to use an AED if one is available, even if you have not received formal training.

Stopping Resuscitation

The decision to stop CPR can be challenging, but there are a few circumstances where it would be considered acceptable to stop,

- 1. The casualty shows signs of life: If the person begins to breathe normally, move, or respond, you can stop CPR.
- 2. An automated external defibrillator (AED) is ready to be used: If an AED becomes available, you can pause CPR to set it up and deliver a shock if advised by the AED. However, CPR should be resumed immediately after the shock is delivered, until the person shows signs of life or the AED prompts you to re-analyse the rhythm.
- 3. A healthcare professional takes over: If paramedics, a doctor, or other healthcare professional arrives and takes over, you can stop performing CPR.
- 4. You become too exhausted to continue: CPR is physically demanding, and it might reach a point where you're too tired to continue. In such a case, if there's another person present who can take over, they should do so to prevent any interruptions to the chest compressions.
- 5. The scene becomes unsafe: If for any reason, the area you are in becomes dangerous, you must consider your own safety.

Please note that you should never decide on your own that a person is beyond help. Always initiate CPR if someone is unresponsive and not breathing normally, and continue until one of the circumstances above occurs.



Abdominal Injuries

Abdominal injuries can occur from trauma such as a fall, motor vehicle accident, assault, or sports injury. They can be categorized as blunt or penetrating. Blunt trauma occurs when the force of the injury does not break the skin, such as a punch or a car crash. Penetrating trauma is when an object pierces the skin and enters the abdominal cavity, such as a gunshot or stab wound.

The abdomen houses many vital organs, including the liver, spleen, kidneys, intestines, and stomach. Depending on the severity of the injury, it can lead to internal bleeding, organ damage, or peritonitis (inflammation of the lining of the abdomen), which can be lifethreatening.

Signs and Symptoms of Abdominal Injuries:

- Pain or tenderness in the abdomen
- Bruising, swelling, or visible wounds in the abdominal area
- Signs of internal bleeding, such as low blood pressure, rapid heart rate, dizziness, or shock
- Nausea or vomiting
- Blood in the urine or stool
- Abdomen feels hard or rigid

First Aid Management:

- 1. Call emergency services immediately if severe abdominal injury is suspected.
- 2. Try to keep the person calm. Have them lie down and reassure them that help is on the way.
- 3. If the injury is penetrating and an object is impaled in the abdomen, do not attempt to remove it. This could lead to more damage or increased bleeding. Instead, stabilize the object with bulky dressings to prevent movement.
- 4. If there's a wound but no object, apply a clean bandage to the area and apply gentle pressure to help stop or slow down any bleeding.
- 5. Try to keep the person still to avoid causing more damage.
- 6. Monitor the person's condition until emergency services arrive.
- 7. If the person becomes unresponsive, perform CPR.

Remember, abdominal injuries can be serious due to the possibility of internal bleeding and organ damage. Therefore, it's important to get professional medical help as soon as possible. Don't give the person anything to eat or drink, as this could cause complications if surgery is needed.

29

Minor Wounds

Minor wounds, such as scrapes, small cuts, or minor burns, are common and usually not severe. They only involve the skin's surface and do not extend to deeper tissues. These wounds can still pose a risk for infection if not properly cared for, as the skin's integrity, which usually acts as a barrier against bacteria, is broken.

Signs and Symptoms of Minor Wounds:

- Visible abrasion, cut, or burn on the skin
- Minor bleeding
- Pain at the site of the wound
- Redness around the wound area

First Aid Management:

- 1. Wash your hands before handling the wound to prevent infection.
- 2. Clean the wound gently with mild soap and warm water. Avoid using antiseptics like hydrogen peroxide or iodine directly on the wound, as they can damage the tissue.
- 3. After cleaning the wound, pat it dry and apply a topical antibiotic ointment if available.
- 4. Cover the wound with a clean bandage or dressing. This helps keep out bacteria and debris, promoting healing.
- 5. Change the dressing daily, or whenever it becomes wet or dirty.
- 6. If the wound shows signs of infection such as increased redness, swelling, pus, or if the person develops a fever, seek medical attention.



Severe Bleeding

When an injury causes a break in the skin, blood vessels are damaged, leading to bleeding. The body will naturally try to stop this by forming a clot, but if the injury is severe, this may not be enough, and external actions need to be taken to stop the bleeding. Uncontrolled bleeding can lead to shock, unconsciousness, and potentially death.

Signs and Symptoms of Severe Bleeding:

- Rapid, large amounts of blood loss from the injury site
- Bright red or dark red blood
- Weakness, confusion, or loss of consciousness
- Signs of shock, such as pale, cold, clammy skin, rapid heartbeat, and shallow breathing

First Aid Management - Direct Pressure:

- 1. Put on gloves or use a clean barrier between you and the wound to prevent infection if possible.
- 2. Apply a clean dressing to the wound.
- 3. Apply direct pressure to the wound with your hand.
- 4. If the bleeding continues and seeps through the dressing, apply additional dressings on top and continue to apply pressure.
- 5. Once bleeding is controlled, bind the dressing in place with a bandage.
- 6. If possible, try to elevate the wound above the level of the person's heart, if this does not cause pain or further injury.

Use a tourniquet only for severe bleeding that can't be controlled by direct pressure, such as life-threatening bleeding from an arm or leg.

- 1. Apply the tourniquet 5-10 cm above the bleeding site. If this is not possible because the bleeding site is too high on the arm or leg, apply the tourniquet around the upper arm or thigh.
- 2. Tighten the tourniquet until the bleeding stops. Record the time you applied the tourniquet.
- 3. Do not remove the tourniquet once applied. This should only be done by medical professionals.

In all cases of severe bleeding, call emergency services immediately. Even if you can control the bleeding, the person needs medical attention. While waiting for help, reassure the person, keep them warm, and monitor their vital signs, such as breathing and consciousness. Begin CPR if necessary.

31

Hemostatic Dressing

Hemostatic dressings are used to control severe, life-threatening bleeding, especially in wounds where a tourniquet cannot be applied. They contain substances that speed up the body's natural clotting process, which helps stop bleeding more quickly. Hemostatic agents come in different forms, such as granules, sponges, or gauze, and can be particularly useful for deep wounds or high-pressure bleeding.

First Aid Management - Hemostatic Dressing:

- 1 Put on gloves or use a clean barrier between you and the wound to prevent infection if possible.
- 2. Apply the hemostatic dressing directly to the source of bleeding in the wound. This could mean packing the wound with hemostatic gauze or applying a hemostatic pad.
- 3. Once the hemostatic agent is in place, apply direct pressure to the wound with your hand
- 4. Maintain pressure for at least 3 minutes, or until the bleeding stops.
- 5. Once bleeding is controlled, bind the dressing in place with a bandage.
- 6. If possible, try to elevate the wound above the level of the person's heart, if this does not cause pain or further injury.

As with other forms of severe bleeding, call emergency services immediately, even if you can control the bleeding with the hemostatic dressing. The person still needs medical attention. Reassure the person, keep them warm, and monitor their vital signs, such as breathing and consciousness, while waiting for help. Begin CPR if necessary.

Please note that the instructions above are general guidelines. The exact method of applying a hemostatic dressing can vary based on the specific product being used, so always follow the manufacturer's instructions when available.



Internal Bleeding

Internal bleeding occurs when damage to an artery or vein allows blood to escape the circulatory system and collect inside the body. This can occur due to trauma, such as a car accident or fall, or due to a medical condition, such as a ruptured aneurysm or gastrointestinal ulcer.

Internal bleeding can be serious or even life-threatening, depending on its location and rate. For example, bleeding into the brain can cause a stroke, while bleeding into the abdomen can lead to shock. The blood lost internally is blood that's not circulating and carrying oxygen to cells, which can lead to organ damage.

Signs and Symptoms of Internal Bleeding:

- Pain, particularly deep, severe, or persistent pain
- Swelling, tightness, or bloating in the abdomen or other parts of the body
- Signs of shock, including pale, cold, clammy skin, rapid heartbeat, and shallow, rapid breathing
- Weakness, dizziness, or fainting
- Bruising, especially large or spreading bruises
- Blood in vomit, stool, urine, or from the mouth, rectum, or vagina
- Decreased alertness or loss of consciousness

First Aid Management:

- 1. Call emergency services immediately if you suspect internal bleeding.
- 2. Try to keep the person calm. Have them lie down and reassure them that help is on the way.
- 3. Keep the person still to prevent further injury. If possible, position the person on their side to prevent choking in case of vomiting.
- 4. Monitor vital signs, such as breathing and pulse. If necessary, start cardiopulmonary resuscitation (CPR).
- 5. If possible, apply a cold pack to the suspected area of internal bleeding to help reduce swelling and slow the bleeding. Do not apply direct pressure to suspected internal bleeding, as this may cause further harm.
- 6. Do not give the person anything to eat or drink, as this could cause complications if surgery is needed.

Remember, first aid for internal bleeding is mostly about calling for help and keeping the person as comfortable and calm as possible. Advanced medical treatment is essential for internal bleeding. Always suspect internal bleeding if a person has experienced significant trauma or has signs and symptoms of shock.



Burns

Burns are injuries to the skin and underlying tissues caused by heat, chemicals, electricity, sunlight, or radiation. The severity of a burn is determined by the area affected and the depth of the burn, which is classified as first degree (superficial), second degree (partial-thickness), and third degree (full-thickness).

First-degree burns affect only the outer layer of skin, causing redness and pain. Second-degree burns extend to the dermis, causing blistering and severe pain. Third-degree burns involve all layers of the skin and underlying tissues, potentially causing numbness due to nerve damage.

Inhalation burns are caused by inhaling hot gases, steam, or toxic substances. They can damage the airways and lungs, leading to life-threatening complications such as respiratory failure.

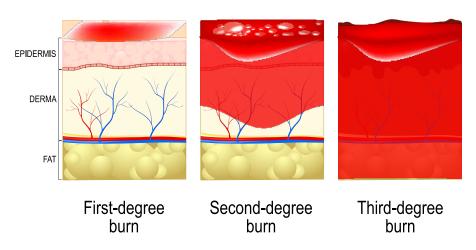
Signs and Symptoms of Burns:

- First-degree burns: redness, pain, and mild swelling
- Second-degree burns: intense redness, splotchy appearance, blisters, and severe pain
- Third-degree burns: waxy or leathery skin, white, brown, or blackened areas, and potential lack of pain due to nerve damage
- Inhalation burns: difficulty breathing, coughing, change in voice, facial burns, or burns around the mouth or nose, singed nasal hair, soot in the nose or throat

First Aid Management:

First-Degree and Superficial Second-Degree Burns:

- 1. Cool the burn under cool (not cold) running water for at least 20 minutes. Avoid using ice or icy water, as this can cause more damage.
- 2. Cover the burn with a clean, non-stick dressing or plastic wrap.



35

Deep Second-Degree and Third-Degree Burns:

- 1. Dial emergency services immediately.
- 2. Make sure the person is safe from further burns or injury.
- 3. Do not remove any clothing stuck to the burn.
- 4. Cover the burn with a clean, non-stick dressing or plastic wrap.
- 5. If possible, cool the burn under cool (not cold) running water for at least 20 minutes

Inhalation Burns:

- 1. Remove the person from the source of the burn, if safe to do so.
- 2. Dial emergency services immediately.
- 3. Monitor the person's breathing and pulse. Begin CPR if necessary.
- 4. If possible, keep the person calm and reassure them that help is on the way.
- 5. Do not give anything by mouth if the person is unconscious or semi-conscious.

Things to Avoid:

- **DO NOT** peel off adherent clothing or burnt substances.
- **DO NOT** use ice or ice water to cool the burn as further tissue damage may result.
- DO NOT break blisters.
- **DO NOT** apply lotions, ointments, creams or powders.

For all types of burns, it's important to get professional medical help. Do not attempt to burst any blisters, as this can increase the risk of infection. For third-degree burns and inhalation burns, hospital treatment is crucial. These types of burns carry a high risk of complications, including shock, infection, and respiratory distress.



Choking - Adult

Choking occurs when a foreign object, often a piece of food, gets lodged in the throat or windpipe, blocking the airflow. This situation can rapidly become life-threatening as it prevents oxygen from reaching the lungs and brain. In the absence of oxygen, brain damage and death can occur within minutes.

A partial blockage allows some air to pass, enabling the person to still breathe and talk, although possibly with difficulty. A complete blockage totally obstructs the airway, making breathing or talking impossible for the person.

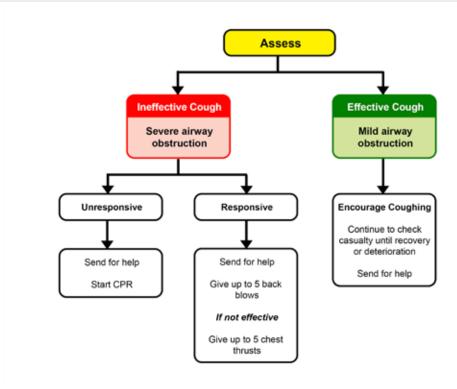
Signs and Symptoms of Choking:

Partial Blockage:

- Ability to talk or cough, though may have difficulty
- Wheezing or noisy breathing
- Panic or distressed behaviour

Complete Blockage:

- Inability to talk, breathe or cough
- Universal choking sign: clutching the throat with one or both hands
- Skin, lips and nails turning blue or dusky (cyanosis)
- Loss of consciousness



First Aid Management:

Partial Blockage:

1. Encourage the person to cough to try to dislodge the object.

2. If coughing doesn't work, call for emergency medical help.

Complete Blockage:

- 1. Ask, "Are you choking?" If the person can't talk, cry or laugh, the airway is completely blocked, and you'll need to perform the following actions:
- 2. Stand behind the person, slightly to one side. Support their chest with one hand. Lean the person forward so that the object blocking their airway will come out of their mouth, rather than moving further down.
- 3. Give up to 5 sharp blows between the person's shoulder blades with the heel of your hand.
- 4. If back blows are not effective, start chest thrusts. To perform chest thrusts, identify the same compression point as for CPR and give up to five chest thrusts. These are similar to chest compressions but sharper and delivered at a slower rate.
- 5. With each chest thrust, check to see whether the airway obstruction has been relieved. The aim is to relieve the obstruction rather than deliver all five chest thrusts.
- 6. If the obstruction is still not relieved and the person remains responsive, continue alternating 5 back blows and 5 chest thrusts until the blockage is dislodged or the person becomes unconscious.
- 7. If the person becomes unconscious, call emergency services (if not already done) and start CPR. Before each cycle of compressions and breaths during CPR, check the mouth to see if the blockage has come loose. If you can see the object, try to remove it.

Remember, choking is a medical emergency. Always seek immediate medical help. It's also essential to receive proper training for performing techniques like back blows, chest thrusts, and CPR.

Choking - Child and Infant

As with adults, choking in children and infants occurs when a foreign object gets lodged in the throat or windpipe, obstructing the airflow. This can become a life-threatening situation rapidly, as it prevents oxygen from reaching the lungs and brain, potentially leading to brain damage or death within minutes.

Choking is especially common in children and infants due to their tendency to put objects in their mouths, their comparatively small airways, and their less-developed chewing and swallowing mechanisms.

Signs and Symptoms of Choking:

The signs are largely the same as for adults: inability to talk, breathe or cough; the universal choking sign (clutching the throat with one or both hands); skin, lips, and nails turning blue or dusky (cyanosis); and possible loss of consciousness. In infants, there might also be a weak cry and inability to suck or swallow.

Choking in Children (1 year to 9 years old):

- 1. Ask, "Are you choking?" If the child can't talk, cry or laugh, the airway is completely blocked, and you'll need to perform the following actions:
- 2. Give the child up to 5 back blows:
 - Stand or kneel slightly to one side behind the child.
 - Support the child's chest with one hand and lean the child forward.
 - Give up to 5 sharp back blows with the heel of your hand between the child's shoulder blades.
- 3. If back blows are not effective, start chest thrusts. To perform chest thrusts, identify the same compression point as for CPR and give up to five chest thrusts. These are similar to chest compressions but sharper and delivered at a slower rate.
- 4. With each chest thrust, check to see whether the airway obstruction has been relieved. The aim is to relieve the obstruction rather than deliver all five chest thrusts.
- 5. If the obstruction is still not relieved and the person remains responsive, continue alternating 5 back blows and 5 chest thrusts until the blockage is dislodged or the child becomes unconscious.
- 6. If the child becomes unconscious, call emergency services (if not already done) and start CPR. Before each cycle of compressions and breaths during CPR, check the mouth to see if the blockage has come loose. If visible, try to remove it.

Choking in Infants (less than 1 year old):

- 1. If an infant is unable to cry, cough, or seems to be having difficulty breathing, they may be choking.
- 2. Hold the infant in a face-down position along your forearm, supported by your thigh.
- 3. Give up to 5 back blows between the infant's shoulder blades using the heel of your hand.
- 4. If this doesn't work, turn the infant face-up, while supporting the head, and give 5 chest thrusts:
 - Place two fingers in the middle of the infant's chest just below the nipple line and give 5 sharp chest thrusts downwards.
- 5. Alternate between 5 back blows and 5 chest thrusts until the object is dislodged or the infant becomes unconscious.
- 6. If the infant becomes unconscious, call emergency services (if not already done) and start CPR. Before each cycle of compressions and breaths during CPR, check the mouth to see if the blockage has come loose. If you can see the object, try to remove it.

Remember, choking is a medical emergency. Always seek immediate medical help. It's also essential to receive proper training for performing techniques like back blows, chest thrusts, and CPR.



Crush Injuries

Crush injuries occur when a part of the body, such as a hand, arm, leg, or trunk, is squeezed between two heavy objects, with that pressure causing damage to the body's structure or function. Depending on the severity and location of the injury, the effects can range from minor bruising to severe complications like organ damage, broken bones, or even life-threatening conditions such as crush syndrome. Crush syndrome is a serious medical condition that occurs when a large amount of muscle tissue is damaged as a result of prolonged crushing. The damage causes muscle cells to release harmful substances into the body, which can lead to shock, kidney failure, and potentially death if not promptly treated.

Signs and Symptoms:

- Pain and tenderness
- Swelling and bruising
- Deformity or unnatural movement
- Open wounds, potentially with bone showing
- Weakness or inability to move the body part
- Numbness or tingling
- Feeling of heaviness or pressure
- In severe cases, signs of shock such as pale, cold, and sweaty skin; rapid heart rate; and rapid breathing

First Aid Management:

- 1. Ensure the safety of both the casualty and the rescuer remove the crushing force if safe and possible to do so. If the casualty is trapped and it's not safe to remove the object, call emergency services immediately.
- 2. Call for medical help if not already done.
- 3. Begin by checking the casualty's airway, breathing, and circulation (the ABCs). If the person is unconscious and not breathing, start CPR immediately.
- 4. Control any external bleeding with direct pressure.
- 5. If a limb is involved, try to immobilise it with splints or bandages to limit movement and prevent further injury.
- 6. Monitor the person's vital signs, including responsiveness, pulse, and breathing, until medical help arrives.
- 7. If the crush injury is severe, or if the person is in pain, avoid moving them unless they are in immediate danger. Movement could cause further injury.

Remember, a crush injury is a serious condition that requires immediate medical attention. Even after the crushing force has been removed, complications can arise due to the release of toxins from damaged muscles. Therefore, it's important to seek professional medical help as soon as possible.

Ear Injuries

Ear injuries can be caused by a variety of factors, including blunt trauma, changes in pressure, loud noise, or foreign objects. Depending on the severity and cause, ear injuries can result in minor external damage to severe internal complications such as ruptured eardrums, dislocation of the tiny bones that enable hearing, or even permanent hearing loss.

Signs and Symptoms:

- Pain or discomfort in the ear
- Hearing loss or ringing in the ear (tinnitus)
- Bleeding or discharge from the ear
- Dizziness or loss of balance
- Swelling or bruising
- Foreign objects in the ear

First Aid Management:

- 1. For minor cuts or abrasions on the outer ear, clean the wound with warm water and mild soap. Apply an antibiotic ointment and cover with a sterile dressing.
- 2. If there's a foreign object in the ear, don't attempt to remove it yourself, as this could cause further damage. Encourage the person to tilt their head to the side to see if gravity can dislodge the object.
- 3. If there's bleeding from the ear, gently wipe away the blood with a clean cloth. Do not insert anything into the ear.
- 4. If there's clear fluid or fluid mixed with blood draining from the ear, this could be a sign of a more serious injury like a skull fracture or a ruptured eardrum. Do not block or stop the flow of fluid. Instead, have the person lie down on their side with the injured ear facing down to allow the fluid to drain.
- 5. If the person has symptoms such as hearing loss, tinnitus, severe pain, dizziness, or loss of balance, these could be signs of internal injury. Seek immediate medical help.
- 6. For suspected ruptured eardrum or dislocation of the hearing bones, keep the ear dry and avoid unnecessary pressure changes (like blowing the nose forcefully) until medical help is sought.

Remember, all but the most minor ear injuries should be evaluated by a healthcare professional. Never attempt to look into the ear canal or remove foreign objects yourself, as this could lead to further damage or infection.

Electric Shock

An electric shock occurs when a person comes into contact with an electrical energy source. This can cause a range of injuries, from minor skin burns to severe internal damage, including cardiac arrest. The severity of the injuries depends on several factors, including the type and strength of the voltage, the pathway of the current through the body, the duration of exposure, and the individual's health status.

When a significant electric current passes through the body, it can interfere with the normal electrical functioning of the heart, leading to a condition known as ventricular fibrillation. This is a life-threatening situation where the heart's lower chambers twitch rapidly and irregularly, rendering the heart unable to pump blood effectively.

Signs and Symptoms:

- Burns, often at the points where electricity entered and exited the body
- Tingling or numbness
- Muscle contractions, pain, or weakness
- Headache or vision problems
- Trouble breathing
- Irregular heartbeat or cardiac arrest
- Unconsciousness
- Seizures

First Aid Management:

- 1. Ensure your own safety first. Do not touch the person until you are certain the source of electricity has been turned off, and they are no longer in contact with it.
- 2. Once it's safe, approach the casualty and call for emergency medical help.
- 3. Begin by assessing the casualty's airway, breathing, and circulation (the ABCs). If the person is unconscious and not breathing, start CPR immediately.
- 4. If the person is conscious but appears confused, disoriented, or is experiencing pain, encourage them to stay still and not move unnecessarily.
- 5. Treat any visible burns with cool, running water for at least 20 minutes. Do not use ice or iced water. After cooling, cover the burn area with a clean, non-stick bandage.
- 6. If the person has fallen from a height (as a result of the shock), there may be a potential spinal injury. Minimize movement and try to keep the person still until medical help arrives.
- 7. Monitor the person's vital signs, including responsiveness, pulse, and breathing, until medical help arrives.

Electric shock is a serious, life-threatening emergency. Immediate treatment is crucial to limit the effects of the electric shock on the body and prevent long-term complications. Always seek professional medical help as quickly as possible.

Eye Injuries

Eye injuries can occur in many ways, including blunt trauma, cuts or abrasions, foreign bodies, chemicals, or exposure to harmful radiation. They can affect various parts of the eye, such as the cornea, conjunctiva, or the sclera. Depending on the nature of the injury, these can cause temporary or permanent vision impairment and can be potentially sight-threatening if not treated promptly.

Signs and Symptoms:

- Redness and watering
- Pain or discomfort.
- Blurred or decreased vision
- Sensitivity to light
- Swelling around the eyes
- Presence of a foreign object or substance
- Cuts or punctures to the eye or eyelid
- Changes in pupil size or shape

First Aid Management:

- 1. For minor irritation or small foreign objects, like dust or an eyelash, encourage the person to blink to promote tearing, or use a sterile saline eye wash if available. Do not rub the eye.
- 2. If a larger foreign object is lodged in the eye, do not try to remove it. This could cause further damage. Instead, loosely cover the eye with a sterile dressing or a clean cloth and seek medical help immediately.
- 3. For chemical burns, start by rinsing the eye with plenty of clean, lukewarm water or sterile saline solution immediately. Hold the eyelid open and ensure all parts of the eye are rinsed thoroughly. Continue rinsing for at least 15 to 20 minutes. After rinsing, cover the eye loosely with a sterile dressing or clean cloth and seek medical help immediately.
- 4. For cuts or punctures, do not wash the eye or try to remove any objects stuck in the eye. Cover the eye with a rigid eye shield or the bottom half of a paper cup, and seek immediate medical help.
- 5. In all cases, refrain from touching, rubbing, or applying pressure to the injured eye.

Remember, any eye injury should be considered serious and assessed by a healthcare professional to prevent potential damage to vision. Do not attempt any treatments beyond basic first aid and seek professional help as soon as possible.

Fractures

A fracture is a break or crack in a bone. It can occur from various types of trauma such as falls, sports injuries, or car accidents, as well as from conditions that weaken the bone, like osteoporosis. Fractures can be classified into several types, including:

- **Closed or Simple Fractures:** The bone is broken, but the skin is intact.
- **Open or Compound Fractures:** The broken bone pierces the skin, creating an open wound. This type of fracture has a higher risk of infection.
- Transverse Fractures: The fracture line is horizontal across the bone.
- **Oblique Fractures:** The fracture has an angled pattern.
- Spiral Fractures: The fracture spirals around the bone; common in twisting injuries.
- **Comminuted Fractures:** The bone shatters into three or more pieces.
- **Greenstick Fractures:** The bone cracks on one side only, not all the way through; common in children because their bones are still flexible.

Signs and Symptoms:

- Pain, which may be severe
- Swelling and bruising
- Deformity or unnatural movement
- Inability to move or use the limb
- In open fractures, visible bone protruding from the skin

First Aid Management:

- 1. Call for medical help.
- 2. Try to keep the person calm. If possible, help them to rest comfortably.
- 3. Do not attempt to realign the bone or push a bone that's sticking out back in.
- 4. For open fractures, control bleeding by applying gentle pressure around the wound with a sterile dressing, if possible.
- 5. Immobilise the fractured area if possible. Use a splint or sling to help prevent movement, always immobilise the joint above and below the fracture. However, do not try to do this if it causes more pain.
- 6. Apply an ice pack wrapped in a cloth to the area around the fracture to help reduce swelling and ease pain. Do not apply ice directly to the skin.
- 7. Give the person paracetamol for pain if it's suitable for them and it's available. Do not give them aspirin or ibuprofen, which can increase bleeding.
- 8. Monitor the person's vital signs, such as breathing and pulse rate, until medical help arrives.

Dislocations

A dislocation is an injury where a joint comes apart and stays apart, with the end of a bone moving out of its normal position in the joint. This can happen in several parts of the body, including the shoulder, hip, knee, elbow, fingers, and toes. Dislocations are often caused by a fall or blow, especially during contact sports, accidents, or activities involving high speed or impact. A dislocation can cause damage to the surrounding ligaments, tendons, nerves, and blood vessels.

Signs and Symptoms:

- Severe pain and discomfort
- Visibly deformed or out-of-place joint
- Swelling and bruising
- Limited or no ability to move the joint
- Numbness or tingling around the joint or down the arm or leg

First Aid Management:

- 1. **Do not** attempt to push or pull the bone back into place this needs to be done by a healthcare professional to avoid further damage.
- 2. Call for medical help.
- 3. While waiting for help, help the person to rest in the most comfortable position possible, ideally in a position that immobilises the area.
- 4. If possible without causing more pain, use a splint to help immobilise the joint and the limbs above and below it. A sling may be used for elbow and shoulder dislocations.
- 5. Apply an ice pack wrapped in a cloth to the affected joint to help reduce swelling and pain. Do not apply ice directly to the skin.
- 6. Monitor the person's vital signs, such as their breathing and pulse, until medical help arrives.
- 7. If the person is feeling faint or there is a decrease in responsiveness, lay the person down on their back and raise their legs to improve blood flow.

Remember, dislocations are serious injuries that need immediate medical attention. After a joint is put back into place, it will need time to heal and may need immobilisation with a splint or cast. Rehabilitation, often involving physical therapy, may be needed to restore normal function.

Slings

Half Arm Sling

This type of sling is generally used for lower arm injuries, such as fractures or sprains to the wrist or forearm.

- 1. Begin with a triangular bandage. Hold it lengthways and fold it once lengthways to make a narrower triangle.
- 2. Ask the injured person to bend their elbow at a right angle. The hand of their injured arm should be roughly in line with their elbow.
- 3. Place the triangular bandage under the injured arm with the apex (the corner opposite the longest edge) pointing towards the elbow and the top edge of the bandage should go past their fingers.
- 4. Take the lower end of the bandage over the injured arm and over the shoulder of the uninjured side.
- 5. Bring the other end of the bandage over the shoulder of the injured side.
- 6. Tie the ends of the bandage together at the hollow just above the collarbone.
- 7. Twist or fold the apex of the bandage, so it's a comfortable fit under the person's elbow, and then secure the point of the bandage with a safety pin.



Remember, these first aid measures provide temporary relief and should not replace seeking medical help. Any suspected fractures, dislocations, or serious injuries should be evaluated and treated by a healthcare professional.

Full Arm Sling

This type of sling is used for injuries to the upper arm, including the elbow and upper humerus.

- 1. Start with an open triangular bandage.
- 2. The injured person should keep their arm as close as possible to the across-the-chest position that the sling will enforce.
- 3. Position the triangular bandage under the injured arm and over the shoulder of the injured side, so that the right angle of the bandage is at the elbow and the top end extends past the fingers.



- 4. Bring the lower point of the bandage up over the front of the forearm and over the shoulder of the uninjured side.
- 5. Tie the ends of the bandage together at the side of the neck, not the back as this can be uncomfortable.
- 6. Adjust the bandage so the hand and wrist are fully supported, but the fingers are free to move. If the bandage is too long, twist the bottom and tuck it in.
- 7. The elbow should be at a 90-degree angle, and the sling should support the arm all the way to the end of the elbow.

Collar and Cuff Sling

This type of sling is often used for upper arm injuries where the arm needs to hang down to ease pain or swelling, such as a dislocated shoulder.

- 1. Use a long, narrow piece of bandage or fabric.
- 2. Make a loop at one end big enough to go around the wrist.
- 3. Pass the other end around the neck and then through the loop to form a collar and cuff.
- 4. Adjust the length so that the hand hangs down at the level of the person's waist.
- 5. Make sure that the knot is positioned at the side of the neck to avoid discomfort.
- 6. Check circulation after the sling is applied. If the hand becomes cold, pale, or numb, loosen the sling.



Splints

Splinting is a method used to immobilise a body part that may be broken or dislocated, to prevent further injury and reduce pain. It's typically used on limbs (arms and legs). In a first aid scenario, splints can be improvised from many things, including cardboard, magazines, or pieces of wood.

Steps to Splint a Limb:

- 1. **Assess the situation:** Ensure the person is safe and call for medical help if the injury is severe. Try not to move the injured limb while you prepare the splint.
- 2. **Prepare the splint:** If a commercial splint isn't available, you can make an improvised splint. This could be a sturdy piece of cardboard, rolled up newspapers or magazines, or a rigid piece of plastic. The splint should be long enough to immobilise the joint above and below the injury.
- 3. **Place padding:** Use soft materials, like cloth or bandages, for padding between the splint and the skin to provide comfort and prevent rubbing. Don't place padding directly on the injury.
- 4. **Position the splint:** Place the splint so it rests on a stable part of the limb both above and below the injury. If possible, try not to move the limb while doing this.
- 5. **Secure the splint:** Use bandages, strips of cloth, or even a belt to secure the splint in place. When tying the strips, make sure they're tight enough to hold the splint in place, but not so tight that they cut off circulation. Do not secure the ties over the injury site.
- 6. **Check circulation:** After securing the splint, check the person's circulation by looking for signs of blood flow return such as normal skin color, warmth, sensation, and movement in the area below the splint. If the person complains of increasing pain or numbness, or if the area below the splint becomes cool, pale, or changes color, you need to loosen the ties.

Remember that splinting is a temporary measure until professional medical help can be obtained. It's vital to seek professional medical attention as soon as possible for suspected fractures or serious injuries. Always err on the side of caution - if you're unsure whether a splint is needed, it's usually better to splint the injury.

Head Injuries

Head injuries can range from a mild bump or bruise to a traumatic brain injury. They are often caused by falls, vehicle accidents, or blows to the head. They can result in damage to one's physical and cognitive capabilities. The skull, which encases the brain, can often withstand minor impacts without injury, but more severe impacts can result in skull fractures or cause the brain to move inside the skull, leading to bruises (contusions), bleeding (hemorrhages), or swelling of the brain (edema).

Signs and Symptoms:

- Mild head injuries: headache, dizziness, nausea, a small cut or bruise, momentary loss of consciousness.
- **Severe head injuries:** loss of consciousness, severe headache, repeated vomiting, seizures, confusion or disorientation, slurred speech, difficulty walking, clear fluids (cerebrospinal fluid) leaking from the nose or ears, unequal pupil sizes.

First Aid Management:

- 1. If the person is unconscious, commence DRSABCD (Danger, Response, Send for help, Airway, Breathing, CPR, Defibrillation).
- 2. If the person is conscious, encourage them to remain still and not to move their head.
- 3. Call for medical help.
- 4. Begin monitoring the person's level of response using the AVPU scale (Alert, Voice, Pain, Unresponsive).
- 5. If the injury is mild and the person is alert, apply a cold compress to the area to help reduce swelling and pain.
- 6. Do not clean any wounds on or near the skull, especially if bone or brain tissue is visible, as this can increase the risk of infection.
- 7. If there is bleeding, apply gentle pressure around the wound with a clean dressing to help stop or slow down the bleeding.
- 8. Regularly check the person's vital signs, such as breathing and pulse, until medical help arrives. Also monitor for changes in consciousness, increased confusion, seizures, worsening headache, and repeated vomiting.

Remember, all head injuries should be treated as serious and the person should be closely monitored for at least 24 hours, even if they feel fine. There's a risk of delayed complications such as concussion or brain haemorrhage. If any symptoms worsen or new symptoms develop, seek medical attention immediately.

AVPU Scale

The AVPU scale is a simple method used by healthcare professionals to measure and record a patient's level of consciousness. It's particularly useful in a first-aid situation to assess how a person is responding after an injury or illness. The acronym AVPU stands for:

- A Alert: The person is fully awake and aware of their surroundings. They're able to answer questions about where they are, what time it is, and what happened to them.
- **V Voice:** The person isn't fully alert but can respond to verbal prompts. This could mean answering questions when asked or reacting to their name being called. If a person is only responsive to voice, it can indicate a decreased level of consciousness.
- **P Pain:** The person doesn't respond to voice but responds to painful stimuli. This could involve pinching the person's skin or applying pressure to a nail bed. Response to pain can be a purposeful movement, an attempt to move away from the painful stimulus, or a groan.
- **U Unresponsive:** The person does not respond to voice or painful stimuli. They don't respond to questions, their name being called, or painful stimuli. This is a serious state which requires immediate medical help.

Remember, the AVPU scale is only a simple initial assessment tool and does not replace a full medical evaluation. It's typically used as part of a broader patient assessment, like the primary survey in first aid (DRSABCD - Danger, Response, Send for help, Airway, Breathing, CPR, Defibrillation). Changes in a person's AVPU status should be noted and reported to healthcare professionals.



First Aid Easy www.firstaideasy.com.au

Motor Vehicle Accidents

Motor vehicle accidents (MVAs) can result in a wide range of injuries, from minor cuts and bruises to serious, life-threatening conditions such as traumatic brain injuries, spinal cord injuries, internal bleeding, and multiple bone fractures. The impact on the body depends on factors such as the speed at which the accident occurred, the size and type of vehicles involved, the use of seatbelts, and the direction of impact.

Signs and Symptoms:

- Physical signs of trauma such as bleeding, bruises, deformities, and burns.
- Complaints of pain, especially in the head, neck, back, or abdomen.
- Difficulty breathing.
- Altered mental status: confusion, disorientation, or unconsciousness.
- Signs of shock: pale, cold, and sweaty skin, rapid heart rate, shallow breathing.

First Aid Management:

- 1. Ensure your safety first: check the scene for danger, such as oncoming traffic, fuel leaks, or fires.
- 2. Call for medical help.
- 3. Use DRSABCD (Danger, Response, Send for help, Airway, Breathing, CPR, Defibrillation).
- 4. Do not move injured persons unless they are in immediate danger (for example, if the car is on fire). Moving a person with a spinal injury can lead to further damage.
- 5. Try to calm and reassure conscious casualties, and encourage them to stay still.
- 6. Control bleeding with direct pressure.
- 7. If trained to do so, apply immobilization techniques to suspected fractures or spinal injuries.
- 8. Monitor the person's vital signs level of consciousness, breathing, and pulse, until help arrives.

Remember, every accident scene is different, so the first aid required will depend on the specific injuries and circumstances. Your own safety is paramount - do not become another casualty. Always wait for professional help if you're unsure about how to proceed.

Needle Stick Injuries

Needlestick injuries are wounds caused by needles that accidentally puncture the skin, a type of sharps injury. This can happen in healthcare settings, but also in other settings if needles are improperly discarded. Needlestick injuries are a hazard because they can transmit blood-borne diseases, such as Hepatitis B, Hepatitis C, and HIV, if the needle is contaminated.

Signs and Symptoms:

- A wound or puncture to the skin caused by a needle.
- Possible presence of blood or other body fluids.
- Potential transmission of infectious disease (not immediately noticeable).

First Aid Management:

- 1. Encourage the wound to gently bleed, ideally holding it under running water.
- 2. Wash the wound using running water and plenty of soap. Don't scrub the wound while you're cleaning it.
- 3. Don't suck the wound.
- 4. Dry the wound and cover it with a waterproof dressing.
- 5. Seek immediate medical advice, as you may need a tetanus shot, hepatitis B vaccination, or antiretroviral drugs to prevent HIV infection.

Remember, it's very important to report the injury to the appropriate person or department in your workplace immediately if the needlestick injury occurs there. If the injury happened in a public place, it's advised to report the incident to the local council or health department.

Soft Tissue Injuries

Soft tissue injuries refer to injuries that affect the muscles, ligaments, and tendons in the body. These include sprains (stretching or tearing of ligaments), strains (stretching or tearing of muscles or tendons), contusions (bruises), and tendinopathies (inflammation or degeneration within a tendon). They can be caused by sudden traumatic incidents or due to overuse of a particular body part over time.

Signs and Symptoms:

- Pain at the site of injury.
- Swelling.
- Bruising.
- Limited range of motion or difficulty using the affected area.
- In severe cases, deformity may be observed.

First Aid Management:

First aid for soft tissue injuries can be remembered with the acronym RICE:

- 1. **Rest:** Encourage the person to stop using the injured area to prevent further injury and start the healing process.
- 2. **Ice:** Apply an ice pack wrapped in a thin cloth to the injured area for 20 minutes every 2-3 hours for the first 24-48 hours. This can help reduce swelling and numb pain.
- 3. **Compression:** Apply a firm bandage over the area, extending beyond the injury on both sides. This can help to control swelling. However, ensure the bandage is not so tight as to cut off circulation.
- 4. **Elevation:** If possible, elevate the injured area above the level of the person's heart to help reduce swelling.

Avoid HARM

HARM is the acronym used to remember what to avoid in the initial treatment (first 72 hours) of soft tissue injuries, as these actions can prolong the healing process and potentially lead to further injury. HARM stands for:

- 1. **H Heat:** Applying heat to an injury can cause blood vessels to expand, which can increase swelling and potentially delay healing.
- 2. A Alcohol: Alcohol can increase swelling and delay healing.
- 3. **R Running:** Or any form of physical activity involving the injured area can potentially exacerbate the injury.
- 4. **M Massage:** While massage is beneficial in the later stages of healing, early massage can increase swelling and bleeding and delay healing.

So in combination with RICE (Rest, Ice, Compression, Elevation) for the immediate first aid management of soft tissue injuries, avoiding HARM (Heat, Alcohol, Running, Massage) is essential in the first 72 hours to promote healing and recovery.

Spinal Injuries

Spinal injuries involve damage to any part of the spinal cord or nerves at the end of the spinal canal. They often cause permanent changes in strength, sensation, and other body functions below the site of the injury. Depending on the location and severity of the damage, the effects can range from numbness to paralysis. Injuries can occur due to a sudden traumatic blow to the spine that fractures, dislocates, crushes, or compresses one or more vertebrae.

Signs and Symptoms:

- Pain or pressure in the head, neck, or back.
- Weakness, incoordination, or paralysis in any part of the body.
- Numbness, tingling, or loss of sensation in hands, fingers, feet, or toes.
- Loss of bladder or bowel control.
- Twisted neck or back.
- Impaired breathing after injury.
- An oddly positioned or twisted neck or back

First Aid Management:

- 1. Do not move the person unless there's an immediate threat to their life, like a fire. Any movement could potentially cause serious harm if the person has a spinal injury.
- 2. Call emergency services immediately.
- 3. Keep the person still. Place heavy towels or clothing rolls on both sides of the neck or hold the head and neck to prevent them from moving until emergency care arrives.
- 4. Provide as much first aid as possible without moving the person's head or neck. If the person shows no signs of circulation (breathing, coughing, or movement), begin CPR
- 5. If the person is wearing a helmet, don't remove it.
- 6. Do not roll the person over unless they are vomiting or choking on blood, or you need to check for breathing.

Remember, it's important to keep the person calm and reassure them that help is on the way. Make sure not to leave them alone. Note the person's symptoms and share this information with emergency services when they arrive.

Mechanism of Injury

Assessing the mechanism of injury is an important part of determining the potential for a spinal injury. While it's not always definitive, certain mechanisms of injury increase the likelihood of spinal involvement. Consider the following:

- 1. High-energy impact: Spinal injuries are more common in accidents with high-energy impacts, such as motor vehicle accidents, falls from significant heights, or sports-related collisions. The force involved in these incidents increases the risk of spinal damage.
- 2. Falls: Falls, especially from a significant height or with an awkward landing, can result in spinal injuries. Consider the height of the fall, the landing surface, and whether the person landed on their head, neck, or back.
- 3. Motor vehicle accidents: The nature of motor vehicle accidents, especially those involving high speeds or multiple impacts, can cause severe spinal injuries. Pay attention to the type and severity of the collision, vehicle rollovers, or ejections.
- 4. Diving accidents: Diving into shallow water or striking the bottom of a body of water can lead to significant spinal injuries. The impact of hitting a solid object can compress or fracture the spine.
- 5. Sports-related injuries: Certain sports, such as rugby, football, and gymnastics, carry a higher risk of spinal injuries due to the nature of the activities involved. Consider the mechanism of injury specific to the sport, such as tackling or falling during a gymnastics routine.

It's important to note that the absence of obvious signs of injury doesn't rule out the possibility of a spinal injury. If there's any doubt, it's crucial to err on the side of caution and assume a potential spinal injury until professional medical assessment can be conducted. Always prioritize the safety and well-being of the injured person.



Agitated Person

Agitation is a state of excessive restlessness, an intense feeling of excitement, or an inability to remain calm. It can occur as a response to stressful events, trauma, or certain medical or mental health conditions. An agitated person may become aggressive or violent, posing a potential threat to themselves or others.

Signs and Symptoms of Agitation:

- Restlessness or inability to sit still
- Excessive talking or moving
- Rapid or loud speech
- Signs of visible distress such as pacing, wringing hands, or pulling hair
- Hostile, aggressive, or violent behaviour
- Irritability or impatience

First Aid Management:

- 1. Ensure your safety first. If there is a risk of violence, maintain a safe distance and call emergency services.
- 2. Approach the person calmly and confidently while maintaining a respectful distance. Do not corner the person or invade their personal space.
- 3. Use a calm, reassuring voice to engage the person. Speak slowly and clearly.
- 4. Identify yourself and explain why you're there. The person may not realize that their behaviour is out of the ordinary, so gently point this out.
- 5. Listen attentively and be patient. Acknowledge their feelings and avoid being judgmental.
- 6. Avoid arguing or challenging the person. Instead, distract them with a calming activity if possible.
- 7. If the person continues to escalate, and you feel it is safe to do so, try to remove any potential weapons or items that could be used to cause harm.
- 8. Contact professional help if needed, such as a mental health crisis team or law enforcement. Be sure to explain the situation and the person's behaviour as clearly as possible.

Remember, the goal of managing an agitated person is to keep everyone safe while providing support and reassurance to the individual until they can be properly evaluated by a healthcare professional. It's essential to stay calm and patient, even if the person's behaviour is challenging.

Allergic Reaction/Anaphylaxis

An allergic reaction occurs when the body's immune system overreacts to a substance it perceives as harmful, known as an allergen. These allergens can include certain foods, pollen, insect venom, certain medications, and more. The body responds by releasing chemicals like histamine to protect against the allergen.

In a mild allergic reaction, these chemicals can lead to symptoms like a runny nose, itchy or watery eyes, hives, and sneezing. However, in severe cases, known as anaphylaxis, the reaction can affect the whole body and lead to life-threatening symptoms such as difficulty breathing, a drop in blood pressure, and loss of consciousness.

Signs and Symptoms of Mild Allergic Reaction:

- Skin reactions, including hives and itching
- Red, watery eyes
- Sneezing or a runny nose
- Swelling
- An itchy throat

Signs and Symptoms of Severe Allergic Reaction (Anaphylaxis):

- Difficulty breathing or wheezing
- Swelling of the lips, tongue, or throat
- Rapid or weak pulse
- Nausea, vomiting, or diarrhoea
- Dizziness, fainting, or unconsciousness
- A sense of dread or anxiety
- Skin reactions, including hives, itchiness, and flushing or pale skin
- Drop in blood pressure leading to shock

Remember, it is vital that if you are in any doubt, treat for anaphylaxis first.

First Aid Management:

Mild Allergic Reaction:

1. Try to determine what triggered the allergic reaction and avoid further exposure.

- 2. Over-the-counter antihistamines may help reduce symptoms. This should be done under the direction of a health care professional or in line with a documented anaphylaxis action plan.
- 3. If symptoms worsen or persist, seek medical help.

Severe Allergic Reaction (Anaphylaxis):

- 1. Call emergency services immediately.
- 2. Lay the person flat. If breathing is difficult, let them sit up.
- 3. If the person has a prescribed adrenaline autoinjector (like EpiPen), assist them to use it. Typically, it's injected into the mid-outer thigh muscle.
- 4. Perform CPR if the person becomes unresponsive or unconscious and doesn't have a pulse.

In both a mild allergic reaction or severe allergic reaction, refer to the anaphylaxis action plan for the person if it is available.

Allergic reactions can be unpredictable. Some people may initially experience a mild reaction but then rapidly progress to anaphylaxis. Hence, it's crucial to monitor the person closely and seek immediate medical help when severe symptoms are observed. Regular medical check-ups and a personalised action plan can help manage this condition.

Using an Anapen

- 1. **Identify the Allergic Reaction:** Look for signs of a severe allergic reaction such as difficulty breathing, swelling of the tongue or throat, rapid pulse, or skin reactions like hives.
- 2. Call for Help: Dial emergency services immediately.
- 3. **Remove the Black Needle Shield:** Pull the needle shield in the direction of the arrow. When the black needle shield is removed, a small internal grey needle shield will come loose. This is supposed to happen. The Anapen needle is double capped for safety and sterility.
- 4. Remove the grey safety cap from the red firing button
- 5. **Position the needle end** of the Anapen device against the outer part of the thigh. Anapen can be used through light clothing, such as denim, cotton or polyester.
- 6. **Press the red firing button so that it clicks.** Hold the Anapen® device against the outer thigh for 3 seconds before removing.
- 7. **Check the adrenaline has fired.** The injection indicator will show red if the injection was completed successfully. If it isn't red, repeat the steps with a new Anapen.
- 8. **Recap the device.** Use the wide end of the black needle shield to cover the small needle.
- 9. **Wait for Medical Help:** The person should stay lying down, or sit if they have difficulty breathing, while waiting for medical help. If the person's symptoms haven't improved within 5 to 15 minutes, a second injection may be necessary, if available.

Even after using an Anapen, emergency medical assistance is necessary. Anaphylaxis is a severe, potentially life-threatening condition and the individual needs professional medical attention. Any use of an Anapen should be followed up with immediate medical attention. This guide is for the Anapen brand of adrenaline auto-injectors. Other brands may have slightly different instructions, so it's best to familiarize yourself with the device you have.



Using an EpiPen

1. **Identify the Allergic Reaction:** Look for signs of a severe allergic reaction such as difficulty breathing, swelling of the tongue or throat, rapid pulse, or skin reactions like hives.

- 2. Call for Help: Dial emergency services immediately.
- 3. **Prepare the EpiPen:** Remove the EpiPen from its protective container. Hold the EpiPen in your dominant hand, with your fist around the unit and the orange tip pointing downwards.
- 4. **Remove the Safety Cap:** With your other hand, remove the blue safety cap by pulling it straight up. Do not bend or twist the cap.
- 5. **Position the EpiPen:** Hold the EpiPen about 10 cm away from the outer thigh. Ensure that the orange end (needle end) is pointed towards the thigh.
- 6. **Inject the EpiPen:** Swing and jab the EpiPen into the outer thigh so that it is perpendicular (at a 90-degree angle) to the thigh. The EpiPen can be injected through clothing if necessary.
- 7. **Hold and Wait:** Press it firmly against the thigh to activate the device. This will release a spring-loaded needle that injects the epinephrine. Hold the EpiPen in place for 3 seconds to allow the medication to be delivered.
- 8. **Remove the EpiPen:** Remove the EpiPen from the thigh. Be careful not to touch the orange tip, as the needle will be exposed.
- 9. **Wait for Medical Help:** The person should stay lying down, or sit if they have difficulty breathing, while waiting for medical help. If the person's symptoms haven't improved within 5 to 15 minutes, a second injection may be necessary, if available.
- 10. **Dispose of the EpiPen Safely:** Give the used EpiPen to the ambulance crew when they arrive, so it can be disposed of safely.

Remember, even if symptoms seem to improve after using an EpiPen, it's crucial that the person still get emergency medical help. Anaphylaxis is a severe condition that requires professional medical attention. The use of an EpiPen should always be followed up with immediate medical attention.

This guide is for the EpiPen and EpiPen Jr brands of adrenaline auto-injectors. Other brands may have slightly different instructions, so it's always best to be familiar with the device you have.



Asthma

Asthma is a chronic respiratory condition that involves the narrowing and inflammation of the airways. This can lead to an excess production of mucus, making it difficult to breathe.

In an asthma attack, also known as an exacerbation, the severity can range from mild to severe. The distinction between a mild to moderate asthma attack and a severe attack is generally based on the symptoms experienced, their intensity, and the person's response to reliever medication.

- A mild to moderate asthma attack might involve symptoms like wheezing, coughing, shortness of breath, or chest tightness. However, the individual is still able to talk in full sentences and move around without becoming breathless. Symptoms often improve with the use of reliever medication
- A severe asthma attack is characterized by more intense symptoms. The individual might find it difficult to speak more than a few words at a time without pausing for breath or they might be breathless even while at rest. There may be little to no improvement after using reliever medication, or symptoms may even worsen. In severe cases, the lips or face might appear blue due to low oxygen levels, and the individual could experience confusion, drowsiness, or loss of consciousness.

Signs and Symptoms:

- Difficulty breathing or shortness of breath
- Tightness in the chest
- Wheezing or whistling sound when exhaling
- Coughing, especially at night or early in the morning
- Increased mucus or phlegm production
- Difficulty speaking in full sentences due to shortness of breath
- Signs of low oxygen, including confusion or agitation, and blue lips or face

First Aid Management of Asthma:

- 1. Sit the person upright and reassure them to stay calm, as panic can worsen symptoms.
- 2. If the person has their own asthma medication, such as a blue reliever inhaler (like Ventolin, Asmol, or Airomir), assist them to use it. This generally involves shaking the inhaler, attaching it to a spacer if one is available, and having the person take 4 separate puffs, with 4 breaths per puff.
- 3. Wait for 4 minutes. If there's no improvement, have the person take 4 more puffs.
- 4. If there's still no improvement, call emergency services. While waiting for medical help, have the person take 4 puffs every 4 minutes.
- 5. If the person becomes unresponsive or unconscious, start CPR.

Any asthma attack, regardless of its perceived severity, should be taken seriously and requires appropriate management. Always call for emergency medical assistance if you're uncertain about the severity of an asthma attack. Regular medical check-ups and a personalised asthma action plan can help manage this condition.



Diabetes

Diabetes is a chronic condition where the body's ability to regulate blood sugar, or glucose, is impaired. There are two main types: Type 1 diabetes, where the body doesn't produce insulin (a hormone that regulates blood sugar levels), and Type 2 diabetes, where the body either doesn't produce enough insulin or doesn't use it effectively.

People with diabetes are at risk of having too much sugar in their blood (hyperglycemia), which can damage organs over time, or too little sugar (hypoglycemia), which can deprive the brain of energy. Both situations can lead to a medical emergency.

Signs and Symptoms of Hypoglycemia (Low Blood Sugar):

- Weakness or fatigue
- Hunger
- Shakiness or trembling
- Sweating
- Dizziness or light-headedness
- Headache
- Confusion, disorientation, or difficulty concentrating
- Irritability or mood changes
- Loss of consciousness or seizures in severe cases

Signs and Symptoms of Hyperglycemia (High Blood Sugar):

- Frequent urination
- Increased thirst
- Dry mouth and skin
- Fatigue
- Blurred vision
- Nausea and vomiting
- Shortness of breath
- Confusion, difficulty concentrating, or drowsiness
- Unconsciousness or seizures in severe cases

First Aid Management:

Hypoglycemia:

1. If the person is conscious and able to swallow, provide sugar-rich food or drink like fruit juice, regular soda, or glucose tablets.

- 2. Monitor their condition. Symptoms should begin to improve after 15 minutes. If not, give another serving of sugar-rich food or drink.
- 3. If symptoms still do not improve, or if the person becomes unconscious, call emergency services. Do not attempt to give an unconscious person food or drink.

Hyperglycemia:

- 1. If you suspect high blood sugar, encourage the person to check their blood sugar levels if they are able to and it's safe to do so.
- 2. Encourage the person to take their prescribed diabetes medication.
- 3. If the person becomes unconscious or has symptoms like rapid breathing, sweet-smelling breath, or confusion, call emergency services immediately.
- 4. If the person becomes unconscious, place them in the recovery position if it's safe to do so and begin CPR if they have no pulse.

Remember that all people with diabetes should regularly monitor their blood sugar levels and follow their doctor's advice on managing their condition. In all emergency situations, it is critical to seek professional medical help.



Heart Attack

Heart conditions encompass a wide range of disorders affecting the heart and the blood vessels supplying the heart. These include coronary artery disease, heart rhythm disorders (arrhythmias), heart valve diseases, heart failure, and others. These conditions can lead to reduced blood flow to the heart, causing a lack of oxygen and nutrients to the heart muscle, which can cause damage or death to the heart tissue, often leading to a heart attack.

Signs and Symptoms of a Heart Attack:

- Chest discomfort or pain, which may feel like pressure, squeezing, fullness, or pain in the centre of the chest
- Discomfort in other areas of the upper body, such as the arms, back, neck, jaw, or stomach
- Shortness of breath
- Cold sweat
- Nausea or vomiting
- Lightheadedness or dizziness
- Fatigue or weakness

First Aid Management:

- 1. If you suspect someone is having a heart attack, call emergency services immediately.
- 2. Encourage the person to sit down, rest, and try to stay calm.
- 3. If the person has been prescribed nitroglycerin tablets or a similar heart medication, assist them in taking it.
- 4. If the person becomes unconscious, check for breathing and a pulse. If absent or abnormal, start cardiopulmonary resuscitation (CPR).
- 5. Use an automated external defibrillator (AED) if one is available and you are trained to use it. Follow the voice prompts.
- 6. Continue CPR until emergency medical help arrives or the person starts to show signs of regaining consciousness.

Every minute counts when dealing with a heart attack. Quick action can help reduce damage to the heart and increase the person's chances of survival. After a heart attack, it's crucial for the person to follow up with their healthcare provider for ongoing care and to manage their heart condition effectively. Regular medical check-ups and lifestyle modifications can significantly improve the quality of life of those with heart conditions.

Heart Conditions (angina)

Angina is a type of chest discomfort caused by reduced blood flow to the heart muscle. It's a symptom of an underlying heart condition, usually coronary artery disease (CAD). In CAD, the coronary arteries, which supply blood to your heart muscle, become narrowed by a buildup of fatty deposits known as plaques. This reduces the supply of oxygen-rich blood to the heart muscle, causing angina.

Angina is typically triggered by physical exertion or stress. It usually lasts a few minutes and goes away with rest. However, if the blood flow doesn't improve, the heart muscle deprived of oxygen can die, resulting in a heart attack.

Signs and Symptoms of Angina:

- Chest pain or discomfort, often described as pressure, squeezing, or a feeling of fullness in the center of the chest
- Pain in your arms, neck, jaw, shoulder, or back
- Shortness of breath
- Fatigue
- Nausea
- Dizziness
- Sweating

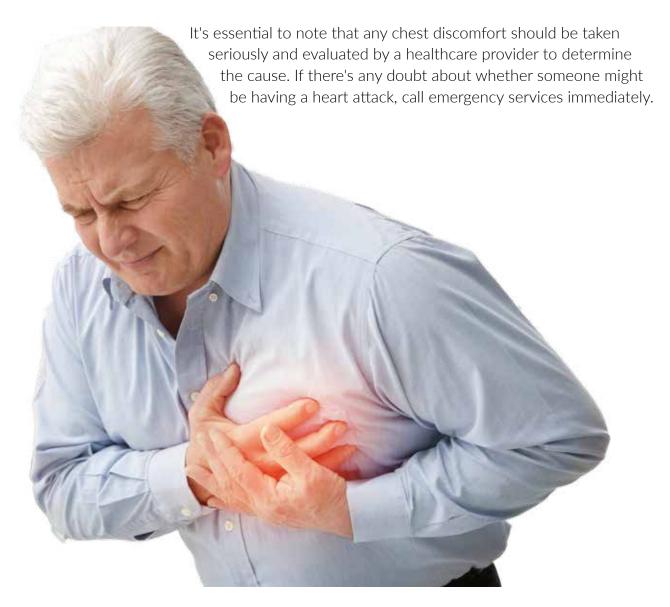
First Aid Management for Angina:

- 1. If someone has angina and they start to feel the typical signs and symptoms, encourage them to stop what they are doing and rest.
- 2. If the person has been prescribed nitroglycerin tablets or spray for angina, assist them in taking it. Nitroglycerin can help to relax and widen the blood vessels, allowing more blood to flow to the heart muscle.
- 3. If the pain doesn't improve within 5 minutes after taking nitroglycerin, call emergency services. This could be a sign of a heart attack.

Differentiating Angina from a Heart Attack:

Angina and a heart attack both involve chest discomfort due to a lack of blood supply to the heart muscle, but there are key differences:

- 1. **Duration of symptoms:** Angina symptoms typically last only a few minutes and are relieved by rest or medication (like nitroglycerin). On the other hand, heart attack symptoms usually last longer than a few minutes and aren't relieved by rest or nitroglycerin.
- 2. **Intensity and progression of symptoms:** Angina symptoms are usually relatively stable, they don't get abruptly worse. However, heart attack symptoms are more severe and tend to increase in intensity over time.
- 3. **Response to medication:** Angina symptoms usually improve with nitroglycerin. Heart attack symptoms don't.
- 4. **Triggers:** Angina is often triggered by physical activity or emotional stress and subsides with rest. Heart attack symptoms can occur at rest and aren't necessarily triggered by physical exertion.



Rapid Breathing

Rapid breathing, also known as hyperventilation, is a condition where you start to breathe very quickly. This can be a response to stress, anxiety, or panic, a high altitude, a physical condition such as lung disease, or it may occur for no identifiable reason.

In a panic attack, the body's natural "fight or flight" response becomes overactive, causing physical symptoms that can be severe. During a panic attack, the rapid breathing often accompanies feelings of fear and anxiety, which can be so intense they may make you feel like you're losing control or having a heart attack.

Signs and Symptoms of Rapid Breathing or a Panic Attack:

- Rapid, shallow breathing
- Feeling of suffocation or shortness of breath
- Chest pain or discomfort
- Dizziness or light-headedness
- Nausea or abdominal discomfort
- Trembling or shaking
- Sweating
- Feelings of unreality or being detached from oneself
- Fear of losing control or impending doom

First Aid Management:

- 1. Encourage the person to find a quiet, comfortable place to sit down.
- 2. Reassure them that you are there to help and that they are not alone. This can help reduce feelings of fear and anxiety.
- 3. Encourage them to breathe slowly and deeply, which can help to control hyperventilation. One common method is to breathe in for a count of 4, hold the breath for a count of 4, and then breathe out for a count of 4.
- 4. Keep them calm and try to distract them from their symptoms. Ask them to focus on their surroundings or engage in a simple and non-stressful activity.
- 5. Stay with them until their breathing returns to normal and they no longer feel anxious.
- 6. Encourage them to seek medical help if this is their first panic attack or if their panic attacks are frequent or causing distress.

It's important to note that symptoms of panic attacks can be similar to those of heart attacks. If the person has risk factors for heart disease (such as obesity, high blood pressure, high cholesterol, smoking, or family history of heart disease) and they have not previously been diagnosed with panic disorder, seek immediate medical help.

Seizures

A seizure is a sudden, uncontrolled electrical disturbance in the brain. They can cause changes in behavior, movements, feelings, and levels of consciousness. Seizures can be a symptom of several neurological conditions, including epilepsy. They can also occur due to high fever, brain injury, stroke, or drug overdose.

Seizures can vary in severity, from brief lapses of attention or muscle jerks to severe and prolonged convulsions. Some people may experience a premonition or aura before a seizure occurs, such as a change in sensation, mood, or consciousness.

Signs and Symptoms of a Seizure:

- Sudden loss of consciousness
- Stiffening of the body
- Uncontrollable muscle spasms or jerking movements
- Loss of bladder or bowel control
- Confusion or disorientation after regaining consciousness
- Biting the tongue or inside of the mouth

First Aid Management:

- 1. Stay calm and try to ensure the safety of the person having a seizure. Remove any dangerous objects in the vicinity that they could injure themselves on.
- 2. Place something soft under the person's head to prevent injury.
- 3. Do not attempt to hold the person down or stop the movements as it can lead to injury.
- 4. Do not put anything in the person's mouth, including your fingers. Contrary to popular belief, it is not possible for a person to swallow their tongue during a seizure.
- 5. Time the seizure. If the seizure lasts for longer than 5 minutes, or if the person has a second seizure without regaining consciousness, call emergency services immediately.
- 6. Once the seizure ends, turn the person onto their side in the recovery position. This helps to keep their airway clear.
- 7. Stay with the person until they regain consciousness and are aware of their surroundings.
- 8. If the person does not know where they are or is not responding normally, or if this was their first seizure, seek immediate medical attention.

Remember, seizures can be a symptom of a serious medical condition, and anyone who has a seizure for the first time should seek medical attention. People with known seizure disorders should follow their healthcare provider's advice on what to do if they have a seizure.

Shock

Shock is a life-threatening condition that occurs when the body is not getting enough blood flow, leading to insufficient oxygen reaching your body's organs and tissues. This can cause multiple organ failure and can lead to life-threatening complications.

Shock can result from various conditions, including severe infection (septic shock), severe burns, severe allergic reactions (anaphylactic shock), major blood loss (hypovolemic shock), or heart conditions such as heart attack (cardiogenic shock).

Signs and Symptoms of Shock:

- Cool, clammy skin
- Pale or ashen skin colour
- Rapid pulse
- Rapid breathing
- Nausea or vomiting
- Enlarged pupils
- Weakness or fatigue
- Dizziness or fainting
- Confusion or lack of alertness

First Aid Management:

- 1. Call emergency services immediately if you suspect shock.
- 2. Have the person lie down. If possible, position the person on their back and elevate the legs and feet slightly, unless this could cause pain or further injury.
- 3. Check for signs of circulation such as breathing, coughing, or movement. If absent, begin CPR.
- 4. Try to keep the person calm and comfortable while you wait for help to arrive.
- 5. Do not give the person anything to eat or drink, as this may interfere with medical examination or treatment.
- 6. If the person is cold, cover them with a blanket or jacket to help preserve body heat.
- 7. If the shock is the result of an allergic reaction and the person carries an epinephrine autoinjector (EpiPen, AnaPen), assist them in using it.

Remember that shock is a medical emergency, and while awaiting medical treatment, it's important to keep the person comfortable, reassure them, and offer continuous care. Do not leave a person in shock unattended. Even if they start to feel better, the shock could return, and their condition could rapidly deteriorate.

Stroke

A stroke occurs when the blood supply to part of your brain is interrupted or reduced, depriving brain tissue of oxygen and nutrients. This can happen because of a blockage in the blood vessels (ischemic stroke) or due to a rupture in a blood vessel (hemorrhagic stroke).

Within minutes, brain cells begin to die, leading to potential lasting damage or death. The effects of a stroke depend on the area of the brain affected and the extent of the damage. It can lead to paralysis, speech and language difficulties, memory and thinking problems, emotional changes, and more.

Signs and Symptoms of a Stroke:

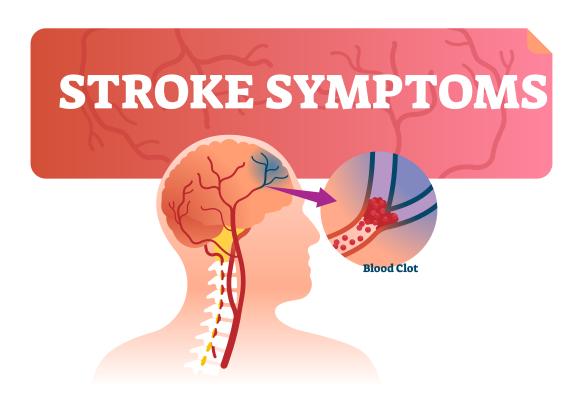
- Sudden numbness or weakness in the face, arm, or leg, especially on one side of the body
- Sudden confusion or trouble speaking or understanding speech
- Sudden trouble seeing in one or both eyes
- Sudden trouble walking, dizziness, loss of balance, or lack of coordination
- Sudden severe headache with no known cause

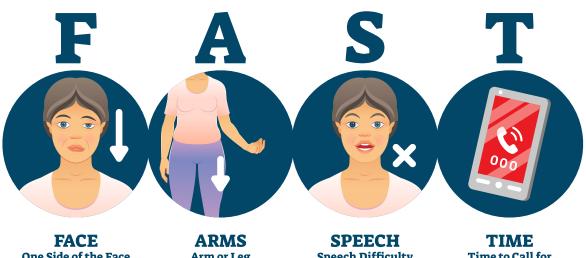
First Aid Management:

- 1. If you suspect someone is having a stroke, use the FAST test to help identify the signs:
 - Face: Ask the person to smile. Does one side of the face droop?
 - Arms: Ask the person to raise both arms. Does one arm drift downward?
 - **Speech:** Ask the person to repeat a simple sentence. Is their speech slurred or strange?
 - **Time:** If you observe any of these signs, call emergency services immediately.
- 2. Note the time when the symptoms first appeared. This is important information for healthcare providers and can affect treatment options.
- 3. Do not give the person anything to eat or drink.
- 4. Try to keep the person calm and comfortable while you wait for help to arrive.
- 5. If the person becomes unconscious, perform CPR.

Remember, stroke is a medical emergency, and time is critical. Fast treatment can minimize brain damage and potential complications. Therefore, it's crucial to recognize the symptoms and get medical help immediately.

73 Medical





One Side of the Face **Drooping**

Arm or Leg Weakness

Speech Difficulty

Time to Call for **Ambulance Immediately**

First Aid Easy www.firstaideasy.com.au

Bee Stings

Bee stings occur when a bee injects venom into the skin as a defense mechanism. Most bee stings cause temporary pain and discomfort, but for some individuals who are allergic to bee venom, it can result in a severe allergic reaction called anaphylaxis. The reaction to a bee sting varies depending on factors such as the individual's sensitivity, the number of stings, and the location of the sting.

Signs and Symptoms:

- Immediate pain or burning sensation at the site of the sting.
- Redness, swelling, and itching around the sting area.
- Formation of a small, raised welt.
- Development of a white spot or "stinger" at the site of the sting.
- Mild to moderate allergic reactions may include hives, itching, and mild swelling beyond the sting area.

In cases of an allergic reaction (anaphylaxis):

- Difficulty breathing or wheezing.
- Swelling of the face, lips, tongue, or throat.
- Dizziness or fainting.
- Rapid heartbeat.
- Nausea or vomiting.
- Confusion or disorientation.
- Loss of consciousness.

First Aid Management:

- 1. If the bee's stinger is visible, gently scrape it off the skin using a blunt-edged object, such as a credit card or your fingernail. Avoid using tweezers, as squeezing the stinger may release more venom.
- 2. Wash the area with mild soap and water to help prevent infection.
- 3. Apply a cold compress or ice pack wrapped in a thin cloth to reduce swelling and alleviate pain.
- 4. Consider taking over-the-counter pain relievers or antihistamines to manage discomfort and allergic reactions, if necessary.
- 5. Monitor the person for any signs of a severe allergic reaction, especially if they have a known bee venom allergy. If signs of anaphylaxis are present, immediately call emergency services and administer an adrenaline auto-injector (EpiPen or Anapen) if available.
- 6. If the person has a history of severe allergic reactions to bee stings or if multiple stings have occurred, seek medical attention even if the initial symptoms are mild.

75

Spider Bites- General

Spider bites occur when a spider injects venom into the skin as a defensive or predatory mechanism. While most spider bites result in minor symptoms, some species of spiders can cause more significant reactions. The effects of a spider bite can vary depending on the species of spider, the amount of venom injected, and the individual's sensitivity

Signs and Symptoms:

- Immediate pain or stinging sensation at the site of the bite.
- Redness, swelling, and itching around the bite area.
- Formation of a small, raised bump or blister.
- Development of a target-shaped or "bullseye" pattern.
- Mild to moderate allergic reactions may include hives, itching, and mild swelling beyond the bite area.

In cases of more venomous spider bites (severe symptoms)

- Intense pain and muscle cramps.
- Sweating and chills.
- Abdominal pain or cramping.
- Headache or dizziness.
- Nausea or vomiting.
- Restlessness or anxiety.
- Elevated heart rate or blood pressure.

First Aid Management:

- 1. Ensure your own safety. If possible, identify the spider or take a photo for identification purposes, but do not put yourself at risk of being bitten again.
- 2. Clean the bite area gently with mild soap and water to reduce the risk of infection.
- 3. Apply a cold compress or ice pack wrapped in a thin cloth to reduce swelling and provide pain relief.
- 4. Elevate the affected limb, if possible, to minimize swelling.
- 5. Monitor the person for any signs of a severe allergic reaction or systemic symptoms. If severe symptoms occur, such as difficulty breathing or widespread pain, call emergency services immediately.
- 6. Seek medical attention if the bite is from a venomous spider, if the person is experiencing severe symptoms, or if symptoms worsen over time.

Remember, spider bites from most common species are generally harmless and can be managed with basic first aid measures. However, if you suspect a bite from a venomous spider or if severe symptoms develop, seek immediate medical attention.

Funnel Web Spider Bites

Funnel web spiders are venomous spiders found in certain regions, including Australia. Their bites can be potentially life-threatening, especially from the Sydney funnel web spider (Atrax robustus). The venom of these spiders affects the nervous system and can lead to severe symptoms.

Signs and Symptoms:

- Immediate pain or redness at the bite site.
- Localized sweating around the bite area.
- Tingling or numbness around the mouth or tongue.
- Profuse salivation.
- Abdominal pain or cramps.
- Sweating and goosebumps.
- Agitation, restlessness, or confusion.
- Muscle twitching or stiffness.
- Difficulty breathing or chest tightness.
- Elevated heart rate or high blood pressure.

It's important to note that funnel web spider bites are considered a medical emergency.

First Aid Management:

- 1. Ensure your safety and remove yourself from the spider's vicinity.
- 2. Keep the person calm and restrict their movement to reduce the spread of venom.
- 3. Apply a pressure immobilization bandage (using a broad elastic bandage or clothing) over the bite site and extend it up the limb, as you would for snake bite first aid. This helps limit the movement of venom through the lymphatic system. Make sure the bandage is firm but not too tight to impair circulation.
- 4. Call emergency services immediately for urgent medical assistance. Inform them that it is a suspected funnel web spider bite.
- 5. Monitor the person's vital signs, including breathing and pulse. Be prepared to perform CPR if necessary.
- 6. Keep the person lying down and elevate their legs slightly, unless it causes discomfort or worsens symptoms.
- 7. If the person stops breathing, commence CPR until medical help arrives.

Remember, funnel web spider bites require immediate medical attention. The pressure immobilization bandage should be applied as a temporary measure until professional medical assistance can be obtained. Do not attempt to capture or handle the spider, as it can be dangerous.

Snake Bites

Snake bites occur when a snake injects venom into the body through its fangs. The effects of snake venom vary depending on the species of snake and the toxicity of the venom. Snake bites can be life-threatening and require immediate medical attention.

Signs and Symptoms:

- Two puncture marks at the site of the bite (although not always visible).
- Localized pain, swelling, and redness around the bite area.
- Bleeding or oozing from the wound.
- Tingling or numbness around the face or limbs.
- Difficulty breathing or shortness of breath.
- Nausea, vomiting, or abdominal pain.
- Weakness, dizziness, or fainting.
- Blurred vision or other visual disturbances.
- Changes in heart rate or blood pressure.
- Sweating and chills.

It's important to note that symptoms may vary depending on the type of snake and the amount of venom injected.

First Aid Management:

- 1. Ensure your safety and remove yourself from the snake's vicinity. Keep in mind that snakes can bite reflexively even after death.
- 2. Keep the person calm and still, as movement can increase the spread of venom.
- 3. Call emergency services immediately for urgent medical assistance. Provide them with accurate information about the snake, if possible, without putting yourself at risk.
- 4. Reassure the person and have them lie down in a position that keeps the bite site below the level of the heart.
- 5. Apply a pressure immobilization bandage over the bite site and extend it up the limb. This helps slow the spread of venom through the lymphatic system. Make sure the bandage is firm but not too tight to impair circulation.
- 6. Keep the person still and avoid unnecessary movement. Movement can increase the spread of venom in the body.
- 7. If possible, mark the site of the bite on the skin with a pen, noting the time of the bite.
- 8. Monitor the person's vital signs, including breathing and pulse. Be prepared to perform CPR if necessary.
- 9. Do not attempt to catch or kill the snake, as it can be dangerous.

Tick Bites

Tick bites occur when a tick attaches itself to the skin and feeds on blood. Ticks are small arachnids commonly found in grassy or wooded areas. While most tick bites are harmless, some ticks can transmit diseases such as Lyme disease or other tick-borne illnesses. Prompt removal of ticks and proper monitoring are important to prevent potential complications.

Signs and Symptoms:

- Tick bites are often painless and may go unnoticed initially.
- Redness, swelling, or a small bump at the site of the bite.
- Itching or a rash near the bite site.
- In some cases, a bull's-eye pattern rash may develop.

It's important to note that not all ticks carry disease, and most tick bites do not result in illness.

First Aid Management:

- 1. Remove the tick. For small ticks (larvae and nymphs) use permethrin cream (available at pharmacies). For adult ticks, freeze with an ether containing spray.
- 2. Clean the bite area with mild soap and water or an antiseptic solution.
- 3. Dispose of the tick by placing it in a sealed bag or container, or flushing it down the toilet.
- 4. Do not use remedies such as petroleum jelly, heat, or alcohol to remove the tick, as these methods may increase the risk of transmitting disease.
- 5. Monitor the site of the tick bite for any signs of infection, such as increasing redness, swelling, pain, or drainage.
- 6. If a rash develops or if flu-like symptoms occur within a few weeks after the tick bite, seek medical attention, especially if you live in an area known for tick-borne illnesses.

Prevention is key in avoiding tick bites. When spending time in tick-prone areas, wear protective clothing (long sleeves, pants, and closed-toe shoes), use insect repellents containing DEET, and perform regular tick checks on yourself and others. If you suspect a tick bite, timely and proper removal is essential to reduce the risk of disease transmission.



Pressure Immobilisation Bandage

A pressure immobilisation bandage is typically applied to a bite or sting from a venomous creature, such as a snake, funnel-web spider, blue-ringed octopus, or cone snail. The bandage's purpose is to restrict the spread of venom through the lymphatic system by immobilising the bitten area and adjacent joints. It should be applied as soon as possible after the bite or sting has occurred.

Step-by-step guide on applying a pressure immobilisation bandage:

- 1. **Ensure Safety:** Before you start, make sure the person is safe from further bites or stings, and keep them calm and still.
- 2. **Call Emergency Services:** Dial Triple Zero (000) for an ambulance. If it's not possible at this moment, proceed with first aid and call as soon as you can.
- 3. **Apply a Bandage:** Without washing the area or trying to remove any venom, apply a broad pressure bandage over the bite site. If the bite is on a limb, start just above the fingers or toes and move upwards on the limb as far as the bandage will reach. Use a pressure that is similar to what you would use when applying a bandage for a sprained ankle.
- 4. **Immobilise the Limb:** If the bite is on a limb, apply a splint to the limb to restrict movement. Any rigid object can be used as a splint, including a piece of wood, a rolled-up newspaper, or even a rolled-up towel.
- 5. **Extend the Bandage:** If available, use a second bandage to start binding at the fingers or toes of the affected limb and extend the bandage up to the armpit or groin.
- 6. **Mark the Bandage:** Use a pen or marker to note the location of the bite on the outside of the bandage.
- 7. **Keep the Person Still:** Minimise movement to reduce the spread of venom through the lymphatic system.
- 8. **Monitor the Person:** Watch the person for any signs of shock or allergic reaction until medical help arrives.

Remember, the aim of the pressure immobilisation technique is to slow down the spread of venom, not to cut off the blood flow. The bandage should be as tight as you would apply for a sprained ankle but should not cut off circulation. Never wash the bite area as hospitals can test the bandage to identify the species and administer the correct antivenom.

Blue Ring Octopus Bites

The blue-ringed octopus is a highly venomous marine animal found in the Pacific and Indian Oceans, from Japan to Australia. They are recognised by their yellowish skin and characteristic blue and black rings that change color dramatically when the animal is threatened. These octopuses produce a venomous neurotoxin called tetrodotoxin, which is 1,000 times more toxic than cyanide and can cause paralysis and death if not treated.

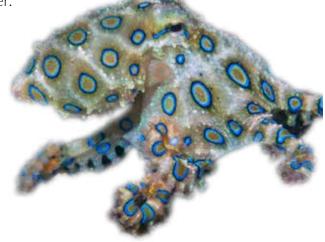
Signs and Symptoms:

- Numbness or paraesthesia
- Nausea and vomiting
- Difficulty in breathing, progressing to complete respiratory failure
- Heart failure
- Paralysis
- Sometimes, the bite is painless, and the victim may not even realise they have been bitten until symptoms appear

First Aid Management:

- 1. Ensure the safety of both yourself and the patient, moving away from the water or the creature if necessary.
- 2. Call for help immediately dial Triple Zero (000) for an ambulance.
- 3. Start applying a pressure immobilisation bandage as quickly as possible. Start bandaging over the bite site, then extend the bandage as far up the limb as possible.
- 4. Use a splint to immobilise the limb and prevent it from bending at the joint. This helps limit the venom's spread.
- 5. If the person becomes unconscious, begin resuscitation immediately.
- 6. Until medical help arrives, keep the patient calm and still to prevent the venom from spreading faster.

Remember, do not try to catch the octopus, and do not apply a tourniquet or try to suck out the venom. These actions could make the situation worse. Quick application of the correct first aid measures and getting the patient to a hospital are vital. Even if symptoms are not immediately apparent, a blue-ringed octopus bite should always be treated as a medical emergency.



Cone Shell Stings

Cone shells are marine creatures found in warm and tropical seas and oceans around the world, including off the coast of Australia. They are known for their beautiful, intricately patterned shells. Cone shells are carnivorous and predatory, and they use a small, hollow, barbed tooth to deliver a venomous sting to paralyse their prey. In humans, this venom can cause serious symptoms and, in severe cases, can be life-threatening.

Signs and Symptoms of a Sting:

- Intense local pain and swelling
- Numbness, tingling or paraesthesia (skin feels prickly)
- Vomiting
- Headache
- Abdominal pain
- Dizziness, fainting
- Difficulty in breathing or speaking
- Paralysis, respiratory failure in severe cases

First Aid Management:

- 1. Ensure safety: Move away from the water or the creature if necessary to avoid further injury.
- 2. Call for help: Dial Triple Zero (000) for an ambulance.
- 3. Immobilise and apply pressure: Similar to snakebite treatment, apply a pressure immobilisation bandage if the sting is on a limb. Start at the site of the sting, and wrap towards the heart. This helps slow the spread of venom.
- 4. Immobilise the limb: Use a splint to prevent movement of the limb.
- 5. Provide reassurance and monitor: Keep the patient calm and still until medical help arrives. Monitor vital signs such as breathing and pulse.

Remember, do not wash the wound as hospitals can test the bandage to identify the species and administer the correct antivenom. Do not try to remove the barb yourself, as this can cause more venom to be released. Seek immediate medical attention even if symptoms are minor, as the severity of the reaction can escalate quickly.

Fish Stings/Injury

Fish stings or injuries can be inflicted by various marine species like stonefish, stingrays, and lionfish, among others. These creatures have venomous spines or barbs which can cause anything from minor discomfort to severe pain and, in some cases, serious medical conditions. The venom can affect the nervous system and heart, causing a range of symptoms.

Signs and Symptoms of a Fish Sting:

- Intense pain at the site of the wound
- A visible puncture wound or laceration, which might bleed
- Swelling and redness in the area around the wound
- Symptoms of weakness or sweating
- A headache, dizziness, or fainting
- Difficulty in breathing
- Nausea or vomiting
- In extreme cases, paralysis or irregular heart rhythms

First Aid Management:

- 1. Ensure Safety: If the person is in the water, help them get out to prevent any potential risk of drowning, particularly if the injury is severe.
- 2. Call for Help: If the person has severe symptoms, dial Triple Zero (000) for an ambulance immediately.
- 3. Apply Heat: Immerse the wound in hot water (as hot as the person can comfortably tolerate, ideally around 45 degrees Celsius) for 20 to 30 minutes. This may help inactivate the venom and alleviate the pain.
- 4. Monitor the Person: Observe the person for any signs of shock or an allergic reaction until professional medical help arrives.

Remember, you should not attempt to remove any spines or barbs embedded in the skin; this may result in pushing them deeper or releasing more venom. A healthcare professional should perform this. Also, avoid rinsing the wound as this may help spread the venom. Seek immediate professional medical assistance, especially if the person has been stung by a known venomous fish or if they start to exhibit severe symptoms.

Jellyfish Stings

Jellyfish stings can range from mild to severe, depending on the species and the individual's response to the venom. Jellyfish tentacles are covered with cells called cnidocytes, which contain organelles called nematocysts. These nematocysts contain venom, and when activated, they launch a barbed thread that penetrates the skin and releases venom.

- 1. **Common Non-Tropical Jellyfish:** The most common non-tropical jellyfish in Australia is the Bluebottle or Pacific Man o' War. Its sting can cause sharp, severe pain, and the venom can trigger allergic reactions. However, it is rarely life-threatening.
- 2. **Tropical Jellyfish:** The most dangerous jellyfish in Australia are found in tropical waters, particularly the Box Jellyfish and the Irukandji Jellyfish. The Box Jellyfish's sting is incredibly painful and can be fatal. The Irukandji Jellyfish, while much smaller, can deliver a painful and potentially fatal sting known as Irukandji Syndrome.

Signs and Symptoms of a Jellyfish Sting:

- Intense localised pain
- Red, brown, or purplish tracks on the skin
- Itching, tingling, numbness
- Swelling and redness
- Throbbing pain that may radiate up a leg or an arm to the torso
- In severe cases (such as from a Box Jellyfish sting), symptoms can include difficulty breathing, heart failure, and even death.



First Aid Management for Non-Tropical Jellyfish Stings:

1. Call for help: Dial Triple Zero (000) if the person has severe symptoms, difficulty breathing, or if the sting covers a large area.

- 2. Pick of any tentacles (this is not dangerous to the rescuer)
- 3. Rinse with seawater: Remove tentacles and rinse the area with seawater. Do not use fresh water as it may activate more venom.
- 4. Hot water immersion: After rinsing with seawater, immerse the area in hot water (no hotter than the person can comfortably tolerate, ideally around 45 degrees Celsius) for 20 to 30 minutes to relieve the pain.
- 5. If local pain unrelieved by heat, or if hot water is not available, apply a cold pack or ice in a dry plastic bag.

First Aid Management for Tropical Jellyfish Stings:

- 1. Call for help: Dial Triple Zero (000) immediately.
- 2. Douse with vinegar: This neutralises the venom and prevents further discharge.
- 3. Remove any remaining tentacles
- 4. If no vinegar available rinse with seawater: Remove tentacles and rinse the area with seawater. Do not use fresh water as it may activate more venom.
- 5. Apply a cold pack
- 6. CPR if needed: If the person is unconscious and not breathing, start cardiopulmonary resuscitation (CPR) immediately.

Monitor the patient until professional help arrives, particularly their breathing and consciousness levels. If possible, keep the person calm and still to reduce venom spread. It's important to know the type of jellyfish that caused the sting to ensure the right treatment is given. Medical professionals can provide appropriate antivenom for tropical jellyfish stings.

Drowning

Drowning occurs when a person is submerged or immersed in water (or another liquid), and it interferes with their body's ability to exchange gases, like oxygen and carbon dioxide. This can lead to a lack of oxygen supply to the brain and other organs, known as hypoxia, which can cause damage and, if not rapidly reversed, can lead to death.

Signs and Symptoms of Drowning:

- Difficulty breathing or not breathing at all
- Gasping or choking
- Skin may appear blue or pale, lips may be blue
- Confusion or abnormal behaviour
- Unconsciousness

First Aid Management:

- 1. Ensure Safety: Before you approach, ensure the area is safe for both you and the victim. If possible, remove the person from water without endangering yourself.
- 2. Call for Help: Dial Triple Zero (000) for an ambulance.
- 3. Start CPR: If the person is unconscious and not breathing or not breathing normally, start cardiopulmonary resuscitation (CPR) immediately. Continue to perform CPR until medical help arrives or the person begins to breathe on their own.
- 4. Recovery Position: If the person regains pulse and consciousness but is not fully alert, place them in the recovery position on their side, with the body supported by a bent knee, and with the head tilted to allow any fluid to drain.
- 5. Monitor: Continually monitor the person's breathing and prepare to start CPR again if necessary until medical help arrives.

Remember, in a drowning situation, every second counts. It's essential to act fast to restore breathing and circulation. Once the person has been revived, they should always be checked out by a healthcare professional, as complications such as secondary drowning can occur.



Hypothermia

Hypothermia occurs when the body loses heat faster than it can produce it, resulting in a dangerously low body temperature. It typically happens in cold environments or when exposed to cold water. Hypothermia is a serious condition that requires immediate attention.

When the body's core temperature drops, it affects the functioning of vital organs and body systems. Hypothermia can lead to impaired cognitive function, cardiac arrhythmias, and potentially life-threatening complications. The severity of hypothermia is classified based on the body temperature:

- Mild hypothermia: Body temperature between 32°C to 35°
- Moderate hypothermia: Body temperature between 28°C to 32°C
- Severe hypothermia: Body temperature below 28°C

Signs and Symptoms:

- Shivering (in mild cases, shivering may stop in moderate to severe hypothermia)
- Cold and pale skin
- Slurred speech
- Confusion and poor coordination
- Fatigue and drowsiness
- Weak pulse and slow breathing
- Loss of consciousness (in severe cases)

First Aid Management:

- 1. Move the person to a warm and sheltered area, away from cold and wet conditions.
- 2. Remove any wet clothing and replace them with dry layers of clothing or blankets.
- 3. Protect the person from further heat loss by covering their head, neck, and extremities.
- 4. Insulate the person from the cold ground using a sleeping pad, blankets, or other insulating materials.
- 5. If the person is conscious and able to swallow, provide warm, non-alcoholic fluids to drink. Avoid caffeine and alcohol, as they can worsen hypothermia.
- 6. Gradually rewarm the person by applying warm (not hot) compresses or using your own body heat. Focus on the chest, neck, armpits, and groin areas.
- 7. If available, use a heat source such as a heating pad or hot water bottle wrapped in a cloth to warm the person. However, avoid direct contact between heat sources and the skin to prevent burns.
- 8. Monitor the person's vital signs, including breathing and pulse. If there are no signs of breathing or circulation, start CPR immediately.
- 9. Call emergency medical services for professional medical assistance.

Heat Illness

Heat illness, also known as heat-related illness, occurs when the body is unable to regulate its temperature properly in hot or humid conditions. It encompasses a range of conditions, from mild heat cramps to more severe heat exhaustion and life-threatening heatstroke. Heat illness can develop when the body's cooling mechanisms, such as sweating, become overwhelmed.

Heat illness arises due to prolonged exposure to high temperatures or engaging in strenuous physical activity in hot environments. When the body overheats, it can lead to dehydration, electrolyte imbalances, and disruption of normal physiological processes. If left untreated, heat illness can progress from milder forms, such as heat cramps and heat exhaustion, to the more severe and potentially life-threatening condition of heatstroke.

Signs and Symptoms:

Heat cramps:

- Painful muscle cramps and spasms, usually in the legs or abdomen.
- Heavy sweating.

Heat exhaustion:

- Profuse sweating.
- Pale, cool, or clammy skin.
- Weakness, fatigue, or dizziness.
- Headache.
- Nausea or vomiting.
- Rapid heartbeat.
- Muscle cramps.
- Fainting or near-fainting episodes.

Signs and Symptoms:

Heatstroke:

- High body temperature (above 40°C).
- Altered mental state, confusion, agitation, or seizures.
- Hot, dry, red skin (lack of sweating).
- Rapid and shallow breathing.
- Rapid heartbeat.
- Headache.
- Nausea or vomiting.
- Loss of consciousness.

First Aid Management:

- 1. Move the person to a cooler, shaded area away from direct sunlight.
- 2. Have the person lie down and elevate their legs slightly to improve blood flow.
- 3. Remove excessive clothing and provide access to fresh air.
- 4. Cool the person's body by any means available, such as applying cool water to the skin, using cold packs or wet towels, or fanning the person.
- 5. Encourage the person to drink cool fluids, preferably water or sports drinks, in small and frequent amounts if they are conscious and able to swallow.
- 6. If the person is experiencing severe symptoms or if heatstroke is suspected, call emergency medical services immediately.
- 7. Monitor the person's vital signs, including their body temperature, breathing, and pulse, while waiting for medical assistance.

Hyperthermia

Hyperthermia refers to a condition where the body's core temperature rises above the normal range. It can occur due to exposure to high temperatures, prolonged physical activity in hot environments, or as a result of certain medical conditions. Hyperthermia can be dangerous and potentially life-threatening if not managed promptly.

When the body's core temperature rises, it disrupts the normal functioning of organs and body systems. If left untreated, it can lead to heat exhaustion or heatstroke, which are more severe forms of hyperthermia. Hyperthermia affects the body's ability to regulate temperature, causing symptoms such as dehydration, increased heart rate, altered mental status, dizziness, and in extreme cases, organ failure.

Signs and Symptoms:

- High body temperature (above 38°C)
- Profuse sweating or absence of sweating
- Flushed or red skin
- Rapid heartbeat
- Rapid breathing or difficulty breathing
- Headache
- Nausea and vomiting
- Fatigue or weakness
- Confusion or disorientation
- Fainting or loss of consciousness

First Aid Management:

- 1. Move the person to a cooler environment, preferably an air-conditioned or shaded area.
- 2. Remove excess clothing and any tight or unnecessary items that may retain heat.
- 3. If the person is conscious and able to swallow, provide cool fluids to drink. Water is best, but sports drinks with electrolytes can also be helpful.
- 4. Apply cool water to the person's skin using wet towels, sponges, or by gently spraying with cool water. Fan the person to enhance evaporative cooling.
- 5. Encourage the person to rest and lie down with their legs elevated slightly.
- 6. Monitor the person's vital signs, including body temperature, breathing, and pulse.
- 7. If the person's condition worsens, they become unconscious, or their body temperature continues to rise despite initial first aid measures, call emergency medical services immediately.

Hyperthermia is a serious medical condition requiring immediate attention. If not managed promptly, it can lead to heatstroke, which is a medical emergency. Timely intervention is crucial in reducing the risk of complications associated with hyperthermia.

Poisoning

Poisoning occurs when a person is exposed to harmful substances, either through ingestion, inhalation, absorption through the skin, or injection. The effects of poisoning can range from mild discomfort to severe illness or even death, depending on the toxic substance involved and the amount of exposure. Common causes of poisoning include household chemicals, medications, plants, foodborne toxins, and illicit drugs.

Signs and Symptoms:

The signs and symptoms of poisoning can vary widely depending on the specific toxin involved. They may include:

- Nausea, vomiting, or diarrhea.
- Abdominal pain or cramps.
- Dizziness or lightheadedness.
- Difficulty breathing or shortness of breath.
- Altered mental state, confusion, or disorientation.
- Headache.
- Seizures.
- Irregular heart rate.
- Burns or discoloration around the mouth.
- Unconsciousness.

First Aid Management:

- 1. Ensure your own safety first. If the poisonous substance is present, take precautions to avoid contact or exposure.
- 2. If the person is unconscious or having difficulty breathing, call emergency services immediately.
- 3. If the person is conscious, try to identify the type of poison or the substance involved. This can help medical professionals provide appropriate treatment.
- 4. Call your local poison control center or emergency services for guidance on how to manage the specific poisoning. Poison information line number is 13 11 26
- 5. Do not induce vomiting unless specifically instructed to do so by a medical professional or poison control.
- 6. If the person has come into contact with a toxic substance on their skin or clothing, remove contaminated clothing and rinse the affected area with running water for at least 20 minutes.
- 7. If the poison was ingested, follow the instructions provided by medical professionals or poison control. In some cases, activated charcoal may be given to absorb the poison in the stomach.
- 8. Stay with the person and monitor their vital signs until medical help arrives.

Physiological Differences

When providing first aid, it's important to understand that children are not just miniature adults. Their bodies are structurally and physiologically different, and these differences affect how they respond to injury, illness, and certain treatments. Here are some key differences to keep in mind in a first aid context:

- 1. **Size and Physical Structure:** Children have smaller and more fragile bodies. Their bones are not fully developed and are more flexible than adults', leading to different types of injuries.
- 2. **Airway:** The airway of a child is narrower, and even a small amount of swelling or obstruction can significantly hinder their breathing. Their tongues are relatively larger, which can also contribute to airway obstruction.
- 3. **Breathing:** Children have a faster respiratory rate than adults, and they rely more on their diaphragm to breathe rather than their chest muscles. This makes them prone to respiratory fatigue in case of respiratory distress.
- 4. **Circulation:** Children's heart rates are much faster than adults', and their blood vessels are more elastic, which can maintain their blood pressure even when they're losing significant amounts of blood. This can lead to sudden and severe shock once their compensatory mechanisms are overwhelmed.
- 5. **Temperature Regulation:** Children are more prone to heat loss due to a larger body surface area to mass ratio. Their temperature regulation system is also not as effective as in adults, making them more susceptible to hypothermia or overheating.
- 6. **Metabolic Rate:** Children have a higher metabolic rate, meaning they use more water and generate more waste. This makes them prone to dehydration and the effects of toxins.
- 7. **Brain and Nervous System:** The brain and nervous system are still developing in children, making them more susceptible to injury and hypoxia (lack of oxygen).
- 8. **Emotional and Psychological Differences:** Children may have different responses to pain and stress, and they may not understand what's happening during a medical emergency. Comfort and reassurance are an important part of first aid for children.

These differences mean that some first aid treatments need to be adjusted when dealing with children. For example, you would perform chest compressions and rescue breaths at a different rate and depth for a child compared to an adult during CPR. Also, it's important to communicate appropriately considering the child's developmental stage to reduce anxiety and fear. Always refer to specific paediatric first aid guidelines when dealing with children.

First Aid for Care Givers

Communication and Distraction

Communicating effectively with children during a first aid scenario is crucial to keeping them calm, cooperating, and reducing their distress. Here are some age-appropriate communication and distraction techniques you can use:

- 1. **Infants (0-1 year):** Babies respond to a calm and soothing voice and gentle touch. Try singing or humming a lullaby, gently rocking them, or giving them a favourite toy or blanket. Skin-to-skin contact can also be soothing.
- 2. **Toddlers (1-3 years):** Get down to their level, make eye contact, and use simple words. Explain what you're doing in a way they can understand. Distract them with a toy, story, song, or a game like 'I Spy'.
- 3. **Preschoolers (3-5 years):** Use clear, simple explanations about what's happening and what you're going to do. Let them ask questions. Distractions could include storytelling, a handheld game, or having them help in some way, like holding a bandage.
- 4. **School-aged children (6-12 years):** Be honest about what's happening and why you need to do certain things, but keep explanations simple and reassuring. Encourage them to talk about how they're feeling and ask any questions. Distractions could involve books, games, or helping in a simple task like holding an ice pack.
- 5. **Teenagers (13-18 years):** Explain what you're doing and why, and involve them in decision-making when appropriate. They might appreciate being treated more like an adult. However, be aware that teenagers can also feel scared and may benefit from distraction techniques like talking about their interests or using a smartphone.

Regardless of the age of the child, always show empathy and reassurance. Let them know it's okay to be upset and that you're there to help them. Use a gentle tone of voice and positive language. Also, acknowledge the child's parents or caregivers and involve them in the communication process if they're present, as they can provide comfort and understand the child's needs well.

Signs of Acute Illness

Recognizing the signs and symptoms of acute illness in children and infants is crucial to ensure they receive prompt and appropriate medical attention. These signs can vary depending on the specific condition, but here are some general symptoms that could indicate a child or infant is acutely ill:

- **Fever:** An unusually high body temperature, particularly if accompanied by other symptoms such as vomiting, rash, or lethargy.
- **Unusual Sleepiness or Irritability:** This could be a sign of serious illness, particularly if the child cannot be soothed or awakened.
- Changes in Behaviour: Any significant change in a child's usual behaviour, such as increased fussiness, lethargy, or decreased responsiveness, can indicate acute illness.
- Rapid Breathing or Trouble Breathing: This could indicate a respiratory problem such as pneumonia or bronchiolitis. Look for signs such as flaring nostrils, grunting, or rib retraction.
- Refusal to Eat or Drink: If a child is not eating or drinking as much as usual, particularly if they're also losing weight or not producing as many wet diapers (for infants), they could be unwell.
- **Persistent Vomiting or Diarrhea:** This can quickly lead to dehydration, especially in small children and infants.
- **Seizure:** Any uncontrolled convulsive movement or if the child seems unresponsive or "spaced out."
- Rash: Especially if it's accompanied by a fever or does not fade under pressure (the 'glass test' can be used here, where a clear glass is pressed against the rash to check this).
- Pain: Constant or severe pain, or pain that is localized to one area.
- Change in Skin Colour: Look for unusual paleness, bluish or grey skin, particularly around the lips and tongue.
- **Swelling or Redness:** Any unexplained swelling or redness could be a sign of infection or injury.
- High-pitched, weak, or continuous cry in infants: This may indicate distress or illness.

It's important to remember that every child is different and may show different signs when unwell. If a child or infant is showing any of these signs and you're unsure of the cause, or their condition seems to worsen, they should be seen by a healthcare professional immediately. Trust your instinct as a caregiver; if something doesn't feel right, it's essential to seek medical advice.

First Aid for Care Givers

Febrile Convulsions

Febrile convulsions, also known as febrile seizures, are fits or seizures that occur in children between the ages of 6 months and 6 years, triggered by a high fever usually from an infection. They occur because a child's developing nervous system is more sensitive to changes in body temperature. While they can be frightening to witness, they're usually harmless and often don't indicate a serious health issue.

Signs and Symptoms of Febrile Convulsions:

- Sudden rise in body temperature
- Loss of consciousness
- Convulsions: Uncontrollable shaking or stiffening of the body, arms, and legs
- Rolling eyes
- Frothing at the mouth or drooling
- Becoming very red or very pale
- Temporary cessation of breathing, turning blue (cyanosis)

First Aid Management:

- 1. Ensure Safety: If the child is convulsing, move them to a safe space where they can't hurt themselves. Do not restrain them or put anything in their mouth during the seizure.
- 2. Time the seizure: Keep track of how long the seizure lasts. If it continues for more than 5 minutes, or if the child has trouble breathing, turns blue or it's their first febrile seizure, call Triple Zero (000) for an ambulance.
- 3. Place the child on their side: If possible, gently roll the child onto their side to help keep their airway clear.
- 4. Reduce fever: Once the seizure has stopped, if the child is still feverish, remove excess clothing to help cool them down. Do not place them in a cold bath or shower, as it can lead to shivering which can raise body temperature.
- 5. After the seizure: Once the convulsion has ended and the child is fully conscious, provide comfort and reassurance. They may be sleepy or confused after a seizure.
- 6. Seek medical advice: Always seek medical advice after a febrile seizure, even if it was brief and the child appears well afterwards, to identify and treat the cause of the fever.

Remember, your primary goal during a febrile seizure is to keep the child safe, reassure them once they're conscious and seek medical advice to treat the underlying cause of the fever. Despite being frightening to witness, most febrile convulsions are short and do not cause any long-term health issues.

Croup

Croup is a common respiratory problem in young children. It typically occurs in children aged between 6 months and 3 years. It's characterised by inflammation and swelling of the airway below the vocal cords. This leads to a distinctive barking cough and may cause difficulty in breathing. Croup is usually caused by a virus, most commonly the parainfluenza virus.

Signs and Symptoms of Croup:

- A "barking" cough that sounds like a seal
- Hoarse voice
- Difficulty breathing
- High-pitched whistling sound when breathing in (stridor)
- Symptoms often worse at night
- Fever may be present

First Aid Management:

- 1. Keep the child calm: Comfort and reassure the child, as crying and agitation can make symptoms worse.
- 2. Position for comfort: Encourage the child to sit up, as this can make breathing easier.
- 3. Seek medical advice: Call your doctor or a medical help line for advice. If the child is having difficulty breathing, appears very unwell, or their symptoms rapidly worsen, call Triple Zero (000) for an ambulance.
- 4. Follow medical advice: If a medical professional prescribes medication (like a corticosteroid), administer as directed.

Remember, although croup can often be managed at home, it can sometimes become serious. Always seek professional medical advice if you're unsure or worried about a child's symptoms. Also, remember that croup can be contagious, especially in the early stages of illness, so good hygiene practices are essential to prevent its spread.

First Aid for Care Givers 95

Skin Rashes

A skin rash is a noticeable change in the texture or colour of your skin. Rashes can occur for various reasons, including allergies, infections, chronic diseases, insect bites, or exposure to certain chemicals or plants. While many rashes are benign and may resolve on their own, some can indicate serious health conditions.

Different Types of Rashes and When They Could Be Dangerous:

- **Hives:** These are itchy, raised welts that occur as an allergic reaction to food, medication, or other triggers. Hives usually aren't dangerous unless they're accompanied by difficulty breathing or swelling in the face, lips, tongue, or throat, indicating a severe allergic reaction or anaphylaxis. Seek immediate medical attention in this case.
- **Eczema:** Also known as atopic dermatitis, eczema presents as red, itchy patches of skin. While not typically dangerous, it can become serious if the skin becomes infected.
- **Psoriasis:** This presents as thick, red, scaly patches and isn't usually dangerous. However, severe or widespread psoriasis should be managed by a medical professional.
- **Chickenpox:** This is a viral illness that causes an itchy rash with small, fluid-filled blisters. While usually benign in children, it can be severe in adults, infants, or those with weak immune systems.
- **Measles:** This is a highly contagious virus that causes a widespread rash and flu-like symptoms. It can be dangerous, especially in young children, and should be evaluated by a medical professional.
- **Meningococcal Disease:** This rash is often associated with fever, nausea, and a stiff neck. The rash can start as a few small spots and then spread rapidly to look like fresh bruises. This is a life-threatening condition requiring immediate medical attention.

First Aid Management:

- 1. If the rash is itchy, try not to scratch it as this can lead to infection. Over-the-counter creams and antihistamines can help.
- 2. If you suspect the rash is an allergic reaction, try to identify and avoid the triggering substance. If there's difficulty breathing or swallowing, call Triple Zero (000) for an ambulance immediately.
- 3. For rashes accompanied by other severe symptoms like difficulty breathing, confusion, high fever, persistent vomiting, or in cases of a suspected meningococcal rash, seek immediate medical attention.
- 4. If a rash doesn't improve after a few days, worsens, or is accompanied by other concerning symptoms, consult a healthcare professional.

Remember, rashes can be complex and difficult to diagnose, so professional evaluation is often needed for rashes of unknown cause, especially if they are severe or associated with other concerning symptoms.

Secondary Survey

A secondary survey in first aid is a systematic method of providing care to a patient after life-threatening conditions have been identified and managed during the primary survey (DRSABCD). The secondary survey aims to identify injuries or conditions that might be serious but not immediately life-threatening. Below are the steps for conducting a secondary survey in a first aid scenario:

- 1. **Reassess Vital Signs:** Check the casualty's vital signs, including responsiveness, breathing rate, and pulse. This will help you determine any changes in their condition and provide useful information for medical professionals when they arrive.
- 2. **Obtain History:** Collect information about the casualty's medical history using the **SAMPLE** method.
 - **Symptoms:** Ask about what the casualty is feeling.
 - **Allergies:** Ask if they have any known allergies.
 - **Medications:** Ask if they're taking any medications.
 - **Past Medical History:** Ask if they have any underlying medical conditions.
 - Last Meal: Ask when they last ate or drank.
 - Events Leading Up To Illness/Injury: Ask what happened leading up to the current situation.
- 3. **Head-To-Toe Assessment:** Conduct a physical examination from head to toe, checking for signs of injury. Remember to be gentle, and try not to cause additional pain or discomfort. Look for bumps, bruises, deformities, or swelling. Check for responsiveness in limbs.
- 4. **Check Vital Signs Again:** After completing your head-to-toe assessment, check vital signs again to see if they have changed during your assessment.
- 5. **Monitor and Document:** Continue to monitor the casualty's condition until medical help arrives. Document any changes in their condition, as well as your actions and the casualty's responses. This can be important information for the medical professionals.

Remember that a secondary survey is conducted only after ensuring that there are no immediate life-threatening conditions during the primary survey (DRSABCD). Also, gaining the casualty's consent before starting the secondary survey is crucial, provided they are conscious and capable of granting it. This respects their right to refuse care and maintains their dignity.

PILSDUCT

PILSDUCT is another option that can be used during the secondary survey in a first aid scenario, after any immediate life-threatening conditions have been identified and managed in the primary survey (DRSABCD). The secondary survey aims to identify injuries or conditions that might be serious but not immediately life-threatening, as well as gathering additional information about the incident and casualty's health.

You would use PILSDUCT to gather more detailed information about the casualty's condition, including their symptoms, medical history, and the circumstances surrounding the incident or onset of illness.

The information collected via the PILSDUCT method helps to:

- Better understand the situation and provide appropriate care.
- Monitor the casualty's condition and detect any changes.
- Inform medical professionals accurately about the situation when they arrive or when handing over the casualty for further care.

It stands for:

- Pain: Ask the casualty to describe their pain, such as its location, intensity, and type (sharp, dull, throbbing, etc.).
- Illness: Ask about any illnesses they have or had recently, as well as any medications they're taking. This also covers underlying health conditions and allergies.
- Last Meal: Find out when the casualty last ate or drank. This could be relevant for understanding the potential for nausea, vomiting, or the risk of aspiration.
- Symptoms: Ask about the symptoms they're experiencing. This can help to identify the nature of the illness or injury.
- Do: Find out what they were doing at the time of the incident or when symptoms started.
- Urine/Bowel Movement: Check if there have been changes in frequency, color, or consistency. These can be indicators of specific internal issues.
- Change: Ask if there has been any change in the symptoms or condition.
- Time: Establish when the symptoms first started. Time can be a crucial factor in managing certain medical conditions.

Each element of PILSDUCT provides valuable information for evaluating the casualty's condition and can be essential for healthcare professionals once the casualty is handed over for further care.

Remember that gaining the casualty's consent before starting the assessment is crucial, provided they are conscious and capable of granting it. This respects their right to refuse care and maintains their dignity.

Triage

Triage is a system used to sort and prioritize casualties based on the severity of their injuries or illness in a multi-victim incident or mass casualty event. The goal is to do the most good for the most people, with priority given to those who are most severely injured but have a good chance of survival if treated promptly.

- 1. **Safety First:** As with all first aid situations, ensure the scene is safe for you and the victims before proceeding. This might mean waiting for help from firefighters or other professionals if there are dangers like fire, unstable structures, or hazardous materials.
- 2. **Call for Help:** Call emergency services immediately if they haven't been notified yet. They will provide additional resources and professional medical support.
- 3. **Start Triage:** Begin a rapid assessment of each victim, starting with those who are closest or appear most severely injured. This is often referred to as the 'primary survey'.
- 4. **Use a Triage System:** A common system is the START (Simple Triage and Rapid Treatment) method, which assesses Respiration, Perfusion (pulse), and Mental status (RPM):
 - **Respiration:** If the victim is not breathing, reposition the airway once. If they start breathing, tag them as immediate (red). If they don't start breathing, they are tagged as deceased (black).
 - **Perfusion:** Check the victim's pulse or capillary refill time (press on the nail bed and see how quickly colour returns). If it takes more than 2 seconds, tag as immediate (red). If it's less than 2 seconds, move to mental status.
 - **Mental Status:** Can the victim follow simple commands, like "squeeze my hand" or "open your eyes"? If yes, tag as delayed (yellow). If no, tag as immediate (red).
- 5. **Tag or Mark Victims:** Use physical tags, markers, or even makeshift labels to visibly mark victims based on the triage category:
 - **Red (Immediate):** Life-threatening injuries needing immediate attention.
 - Yellow (Delayed): Serious, but not immediately life-threatening injuries.
 - **Green (Minor):** Walking wounded, minor injuries.
 - **Black (Deceased/Expectant):** Deceased, or injuries are so severe immediate survival is unlikely.
- 6. **Communicate:** Continually communicate with professional emergency services, updating them on the situation, number and condition of victims, and any changes.
- 7. **Re-evaluate:** Continue to re-evaluate victims as you wait for help. People's conditions can change rapidly.

Remember, only individuals with appropriate training should conduct triage in a mass casualty situation. Triage involves making difficult decisions that require training and experience.

Debriefing

Debriefing is a structured process for reviewing and discussing a critical event or emergency situation that has taken place. It serves several important purposes:

- **Evaluation:** It provides an opportunity to assess the effectiveness of the first aid given, including what was done well, and areas that may need improvement. This can be helpful for improving future responses.
- **Learning:** Debriefing is a learning tool that allows first aiders to gain insight into their actions and reactions during the event. It's a chance to reflect on the situation and learn from it.
- **Emotional Processing:** Critical incidents can have a psychological impact on the people involved, including the first aiders. Debriefing provides an opportunity to process emotions and reactions, discuss feelings, and begin the process of emotional recovery.
- **Support:** The debriefing process can provide support to first aiders who may be experiencing stress or trauma as a result of the incident. It creates a safe and supportive environment to share experiences.

Here are some key steps in the debriefing process:

- 1. **Preparation:** Ensure a calm, private environment for the debriefing. It should be conducted by a person who is experienced in debriefing and ideally not directly involved in the incident.
- 2. **Fact Phase:** Discuss the event chronologically, allowing each person to share their perspective and involvement.
- 3. Thought Phase: Participants share their initial thoughts at the time of the incident.
- 4. **Reaction Phase:** Discuss feelings and reactions during the event.
- 5. **Symptom Phase:** Identify any physical or psychological symptoms experienced during or after the incident.
- 6. **Teaching Phase:** Discuss normal stress reactions and provide information about stress management and seeking further help if needed.
- 7. **Re-entry Phase:** Summarise the discussion, reinforce the normality of reactions, and plan for future follow-up if needed.

It's important to note that debriefing should be a supportive process, not a judgemental one. It is not about blaming anyone but about learning, supporting each other, and improving future responses.

Emotions Involved in First Aid

Being a first aider in an emergency situation can be a highly stressful experience. It can provoke a range of emotional reactions both during the incident and afterwards, as the individual processes what has happened. These emotions are completely normal and can include:

- **Anxiety and Fear:** Responding to an emergency situation can be frightening, particularly if the incident is severe or life-threatening.
- Shock and Disbelief: It might be difficult to accept that the incident has happened.
- **Sadness:** Especially if the outcome was not positive, or if the incident involved a person the first aider knows.
- **Guilt:** First aiders may experience guilt if they feel they could have done something differently, or if they were unable to prevent harm.
- **Relief:** There may also be a sense of relief, especially if the victim's situation improves or stabilises.
- **Anger or Frustration:** This could be directed towards the situation, towards themselves, or towards others involved.

After being involved in a critical incident, it's important to take steps to care for one's mental health:

- **Debriefing:** Participate in a structured debriefing process if one is available. This helps to process the event, share feelings and experiences, and learn from the incident.
- **Self-Care:** Engage in activities that help to reduce stress and promote relaxation, such as exercise, deep breathing, yoga, or meditation.
- Talk About It: Talk to someone about your feelings, such as a trusted friend, family member, or a mental health professional.
- **Rest and Recharge:** Get plenty of rest and eat a healthy diet. Physical wellbeing is crucial for emotional recovery.
- Seek Professional Help: If feelings of stress, anxiety, or depression persist, consider seeking help from a mental health professional. It's important to remember that it's okay to ask for help, and there are many resources available to support those who have been through a traumatic event.

Remember, everyone responds differently to stressful situations, and it's essential to respect your own feelings and reactions. It's also important to be patient with yourself - emotional recovery can take time

Incident Report Forms

A first aid incident report is an important document that records the details of an accident, illness, or injury that has happened within a specific setting, like a workplace, school, or public venue. It provides a written record of what happened, who was involved, how the situation was managed, and the outcome.

Such reports are crucial for several reasons:

- **Legal Requirements:** In many jurisdictions, including Australia, certain types of injuries or incidents must be reported to the relevant workplace health and safety authority.
- **Risk Management:** They help organisations identify trends, potential hazards, or unsafe practices and implement corrective measures to prevent future incidents.
- Insurance Purposes: They can provide necessary information if a claim is filed.
- **Evidence:** They serve as a record of the incident and the first aid provided in case of any future inquiries or investigations.

A comprehensive first aid incident report should contain the following information:

- 1. **Personal Information:** The name, age, and contact information of the injured person, as well as similar details for any witnesses.
- 2. **Date and Time:** The exact date and time when the incident occurred.
- 3. **Location:** The specific location where the incident occurred.
- 4. **Description of the Incident:** A detailed account of what happened, including the events leading up to the incident, the incident itself, and the immediate aftermath.
- 5. **Nature of Injury or Illness:** Specific details about the type of injury or illness, the part of the body affected, and the severity of the condition.
- 6. **First Aid Provided:** A detailed description of the first aid treatment provided, who administered it, and the immediate response to the treatment.
- 7. **Medical Aid:** Information about whether professional medical aid was sought, who provided it, and any treatment given.
- 8. **Follow-Up Actions:** Any actions taken after the incident, such as notifying supervisors or family members, changes in the environment or procedures, etc.
- 9. **Reporter Details:** The name and signature of the person who completed the report, as well as the date it was written.



THANK YOU!

First Aid Easy www.firstaideasy.com.au