Choking
Standardised care process

Objective
To promote evidence-based practice to the management of choking for older people who live in residential care settings, and to provide responsive approaches to choking to reduce negative outcomes.

Why the response to choking is important
Normal age-related changes place older people at risk of experiencing swallowing problems. The risk is increased by pathological changes such as dementia, stroke, functional decline and the use of medicines. Choking is a medical emergency and can lead to death. Staff initiating appropriate responses to choking can improve outcomes for residents.

Definitions
Back thrust: a blow to the centre of the back between the shoulder blades using the heel of the hand.
Chest thrust: a thrust that uses the same compression point as for CPR but delivers the thrust at a sharper and slower rate (ANZCOR 2016).
Choking: complete or partial obstruction of the airway by inhalation of a foreign body.
Cyanosis: a bluish discolouration of the skin due to lack of oxygen.
Dysphagia: difficulty with swallowing.
Mendelsohn manoeuvre: a voluntary prolongation of hyolaryngeal elevation at the peak of the swallow that has been used to treat patients with pharyngeal dysphagia.
Stridor: abnormal, high-pitched, musical breathing sound caused by blockage.

Team
Manager, registered nurses (RNs), enrolled nurses (ENs), personal care attendants (PCAs), leisure and lifestyle staff, general practitioner (GP), allied health professionals (such as a physiotherapist, occupational therapist, exercise physiologist, speech pathologist and dietician), residents and/or family/carers.

Acknowledgement
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Brief standardised care process

Recognition and assessment
- Establish residents’ choking risk.
- Recognise the presence of an acute airway obstruction.
- Assess the severity of an airway obstruction.
- Determine if the resident is able to cough effectively or if the cough is not effective.
- Conduct a post-episode assessment.

Interventions
- Inform the RN.
- Respond immediately to the choking episode as per the flow chart.
- Refer to a GP and speech pathologist for assessment.
- Implement an individualised risk reduction and prevention plan.
- Communicate changes.

Referral
- Ambulance services
- GP
- Speech pathologist
- Dietician
- Physiotherapist
- Residential Medication Management Review (RMMR)
- Oral hygienist/dentist

Evaluation and reassessment
- Monitor the resident’s:
  - swallowing status
  - adequacy of food and fluid intake
  - chest for signs of chest infection.
- Evaluate choking risk every six months.

Resident involvement
- Education regarding risk factors
- Discussion regarding modified diets and safe swallowing methods
- Advance care planning

Staff knowledge and education
- Recognition and response to a choking incident
- Identification of residents at risk of choking
- Identification and reporting of swallowing difficulties
- Interventions to reduce the risk of choking once swallowing difficulties have been identified
- Food and fluid texture modification
- Supervision, safe feeding assistance and positioning techniques at meal times
Full standardised care process

Recognition
Establish choking risk for residents who have:
• a swallowing disorder
• a previous history of choking
• impulsive behaviours.
Identify residents who present with an acute airway obstruction. Symptoms in conscious residents include:
• extreme anxiety
• agitation
• gasping sounds
• coughing
• loss of voice
• clutching the neck.

Assessment
Residents identified with a choking risk are referred for specialist assessment (for example, a speech pathologist, dietician and dentist).
Assessment findings and recommendations are documented, communicated across the care team and implemented.
When a resident presents with an acute airway obstruction:
• Assess the severity of the airway obstruction. The obstruction may be partial or complete and the resident may be conscious or unconscious.
• Determine if the resident is able to cough effectively or if the cough is not effective.
• Partial obstruction is indicated if:
  – breathing is laboured
  – breathing is noisy (stridor)
  – air can be felt from the mouth.
The resident should be continually observed because the airway obstruction may progress to complete obstruction within a few seconds.
Complete obstruction is indicated if:
• the resident is attempting to breathe
• there is no sound of breathing
• no air can be felt coming from the mouth or nose
• there is cyanosis due to lack of oxygen.

Interventions
Respond immediately to the choking episode as per the flow chart: immediate response to a choking episode and inform the RN.

If the resident is coughing (effective cough):
• encourage the resident to keep coughing to force out the foreign body
• provide reassurance.

If the obstruction is not relieved, call triple zero (000) and request an emergency ambulance.

If the resident is not coughing and is conscious:
• Call triple zero (000) and request an emergency ambulance.
• Position the resident in a sitting or standing position.
• Give up to five blows in the centre of the back, between the shoulder blades, using the heel of the hand.
• After each blow check whether the obstruction has been relieved.
• If back blows are not effective, identify the CPR cardiac compression point and give up to five chest thrusts. Chest thrusts are similar to cardiac compressions but sharper and delivered at a slower rate.
• After each chest thrust check whether the obstruction has been relieved.
• If the obstruction is not relieved and the resident remains conscious, continue to alternate back blows and chest thrusts until the ambulance arrives.
• If chest thrusts cannot be applied, continue with back blows.

Important: The use of abdominal thrusts to dislodge the obstruction are no longer recommended (ANZCOR 2016).

If the resident is unconscious or falls into an unconscious state:
• Call triple zero (000) and request an emergency ambulance.
• If the object is not visible or the resident does not start breathing, lay the resident on their back on a hard surface and begin CPR.
Following a choking incident:

- Inform the resident’s GP.
- Inform the resident’s family.
- Identify the possible cause and maintain a high awareness of the signs and symptoms of dysphagia.
- Refer to a speech pathologist, if available, for a swallowing assessment and recommendations.
- For residents on modified diet and fluids, monitor food and fluid intake to ascertain whether these are adequate (refer to a dietician if intake is not adequate).

Implement an individualised risk reduction and prevention plan.

Risk minimisation strategies for residents at risk of choking may include:

- systems to ensure at-risk residents are clearly identified to staff involved in food preparation, serving, feeding or supervision during meal times
- systems to ensure the right food reaches the right resident
  - a modified textured diet includes avoiding mixed-texture foods (for example, solid and liquid foods together such as vegetable soups, food with seeds, sticky foods and dry, crumbly foods)
- supervision when eating and drinking
  - modify the way in which assistance with meals is provided (for example, encourage coughing after swallowing, allowing adequate time for chewing and swallowing, ensure swallowing has occurred before offering more food and drink, alternate mouthfuls of food with fluid, check the mouth for residual food after each meal)
  - seating modification to help maintain an upright position
  - postural adjustments and positioning – the resident should be seated upright with their chin tucked or turned to facilitate safe and efficient swallowing
- swallow manoeuvre (such as supraglottic and super supraglottic swallow, effortful swallow, Mendelsohn manoeuvre)
- introduction of eating and feeding aids such as adapted cups, shallow spoons, non-slip table mats, angled utensils
- environmental modifications to minimise distractions
- regularly attend to dental hygiene and provide oral hygiene before and after each meal
- medication review to identify
  - drugs that can impair the cough reflex and swallowing
  - drugs that dry up oral secretions
  - alternative forms of preparations and routes of administration.

Communicate changes related to:

- choking risk
- eating plans
- dietary and fluid requirements.

Referral

- Ambulance services for emergency assistance
- GP for post-episode assessment and recommendations
- Speech pathologist for post-episode swallowing assessment and recommendations
- Physiotherapist for seating modification
- Dietitian
- Residential Medication Management Review if indicated
- Oral hygienist or dental review if professional oral care is indicated

Evaluation and reassessment

Continue to monitor the resident for:

- swallowing difficulties
- adequacy of food and fluid intake
- signs of chest infection.

Evaluate choking risk every six months.

Resident involvement

- Education regarding risk factors
- Discussion regarding modified diets and safe swallowing methods
- Advance care planning

Staff knowledge and education

- Recognition and response to a choking incident
- Identification of residents at risk of choking
- Identification and reporting of swallowing difficulties
- Interventions to reduce the risk of choking once swallowing difficulties have been identified (swallowing strategies)
- Food and fluid texture modification
- Supervision and safe feeding assistance and positioning techniques at meal times
Flow chart: Immediate response to a choking episode

Assess severity

Ineffective cough: severe airway obstruction
- Unconscious
  - Call triple zero (000) to request an emergency ambulance
  - Begin CPR
- Conscious
  - Call triple zero (000) to request an emergency ambulance
  - Give up to 5 back blows if not effective
  - Give up to 5 chest thrusts
  - Continue to alternate between back blows and chest thrusts until ambulance arrives or obstruction is cleared

Effective cough: mild airway obstruction
- Encourage coughing
  - Continue to check resident until recovery
  - If resident deteriorates call triple zero (000) and request an emergency ambulance

Adapted from ANZCOR 2016
Evidence base for this standardised care process


Australian and New Zealand Committee on Resuscitation (ANZCOR) 2016, ANZCOR Guideline 4 – Airway, ANZCOR.

Department of Health 2012, Strengthening care outcomes for residents with evidence (SCORE), Ageing and Aged Care Branch, Victorian Government, Melbourne.


Ibrahim J 2017, Recommendations for prevention of injury – related deaths in residential aged care services, Monash University, Southbank.


Important note: This SCP is a general resource only and should not be relied upon as an exhaustive or determinative clinical decision-making tool. It is just one element of good clinical care decision making, which also takes into account resident/patient preferences and values. All decisions in relation to resident/patient care should be made by appropriately qualified personnel in each case. To the extent allowed by law, the Department of Health and Human Services and the State of Victoria disclaim all liability for any loss or damage that arises from any use of this SCP.