Para-Rowing Capsize Recovery Drill & Safety Guidance





Aims - Objectives - Outcomes



AIMS

 To provide a model for NF's to use when running their own Para-Rowing capsize & recovery training sessions

OBJECTIVES

- Explain the protocols and rationale for Para-Rowing capsize and recovery training
- Describe how you will structure a capsize and recovery training session
- Demonstrate the elements of a Para-Rowing specific capsize and recovery training session

OUTCOMES

- Organise and deliver Para-rowing capsize and recovery training for your NF using this model in which athletes and coaches will learn;
- How to respond to a capsize
- How to assist others who capsize
- Advice for club and event organisers (Umpires, Safety Personnel)

Requirements



- Quiet room for the delivery of the introductory theory session which has sufficient space and seating for the all participants
- Computer data projector which can play video and PowerPoint presentation
- Flip Chart, easel A1pad, and pens
- Training guide
- Clean PR1 single scull with fixed seat and pontoon floats
- Clean set of sculling blades
- Trestles
- Swimming pool (or safe open water space) with a minimum depth of 1.3m (4 feet)
- Timings: Theory: 1hour 15- 25mins

Considerations



- See Tutor Notes
- Compliance with FISA APPENDIX 18 Para Rowing Competition Regulations Event Regulations and/or Departures from the FISA Rules of Racing -http://www.worldrowing.com/mm//Document/General/General/13/08/95/Appendix18-ParaCompetition2018update_Neutral.pdf
- Strapping
- Entry to boat Checklist

Strapping







Aids sold individually



Strapping should be made of a material which will not induce pressure marking or chaffing

HANDS	must be quick mouth release
TRUNK	must be ONE DIRECTION quick release
THIGHS	must be ONE DIRECTION quick release

IMPORTANT:

FISA recommends that all chest, leg and hand strapping is evaluated for safety by the rower before using on open water, by conducting a controlled capsize drill in a swimming pool.

Foot-stretcher with cord release / Prosthetic release









Lifejackets for PR1, PR2 Athletes

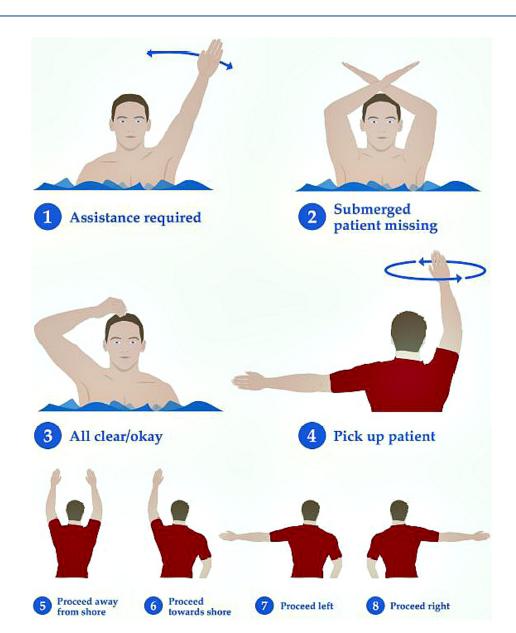






Signage





Agree signage between <u>all</u> taking part in capsize drill in case of emergency

Video & Audio Shoot Sequence









Para-Rowing Safety Guidance



The following information is taken from British Rowing's

'Adaptive Rowing Safety Guidance to Event Organisers' - This document highlights safety advice for the Organising Committees of British Rowing Para-Rowing events.

https://www.britishrowing.org/wp-content/uploads/2017/04/Adaptive-Rowing-Safety-Guidance-For-Event-Organisers-2.pdf

'ROWSAFE' - a simple and direct web-enabled directory, providing safety advice to rowers, clubs, events and everyone else associated with the sport of rowing.

https://www.britishrowing.org/wp-content/uploads/2018/04/Row-Safe-April-2018-Chp-6.pdf



Pre-Medical Questionnaire



- Provides information that may be useful to ensure safe participation in rowing:
 - Pertinent Medical History
 - Confirmation that the rower has evaluated the safety of equipment and where appropriate carried out a controlled capsize drill
 - Additional Assistance

Event Risk Assessment and Health & Safety Emergency Response Plan



Provides information that may be useful to ensure safe participation in rowing:

- See Access Audit module https://www.britishrowing.org/wp-content/uploads/2015/10/ROWING-CLUB adaptive access audit.pdf
- Process for summoning assistance in an emergency
- Location of the event, including postcode and other relevant location information, and directions for emergency services
- Plan of the event showing all emergency access points, with postcodes, and grid references where possible to assist emergency services
- Emergency phone numbers and the location of the nearest landline telephone if available
- Number and location of First Aid Points and, if available, the nearest Automatic External Defibrillator (AED)
- How injured persons will be transported to the First Aid Point or ambulance.
 Number and appropriate type of safety boats

Embarkation and Return of Para Boats



- Pontoons and landing stages are preferred to launching off steps, slipways or the bank as it is easier to transfer from wheelchair to boat and back
- Access ramps at appropriate gradient (1:12 recommended) for manual wheelchairs
- Embarkation pontoons and rafts are stable for wheelchair users
- Ensure that when transferring to the boat, they avoid sitting on hard surfaces for prolonged periods of time. Care should be taken to avoid sharp projections that may cut or mark during transfer, e.g. riggers. Protect heels from pressure marking and ensure that they use cushions/matting during transfer to pontoon/raft
- Dedicated boat launch and landing area for Para-Rowers, as they may need more time and space for embarkation and return, particularly if they have to rely on support from their coaches or helpers, etc



Umpires, Safety Marshalls, Safety Boat Team



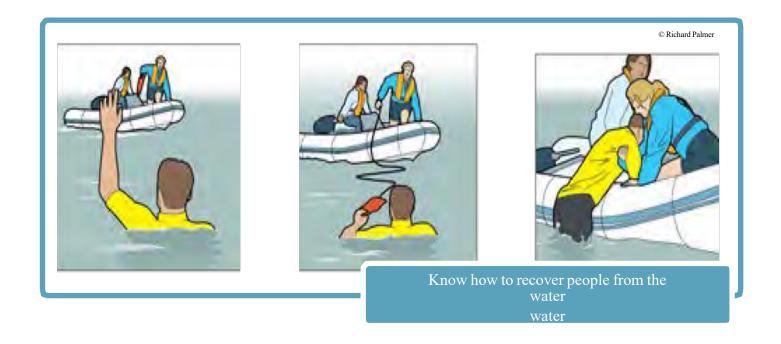
- O Para-Rowers should be able to demonstrate at embarkation point that they are able to release straps in a safe manner
- All Safety Teams at events should be aware that some Para-Rowers will have compromised sitting balance in the PR1 boat classes and therefore the risk of capsize is heightened
- Umpires/Marshalls to carry out checks to ensure correct fixing of pontoon floats and ensure that athlete is able to demonstrate safe release of straps before leaving embarkation pontoons
- Understand degree of difficulty in up-righting an inverted boat with rowers who are strapped into seats
- Understand the method of release for rowing straps and carry a safety knife, so if necessary they can cut straps at the attachment point to seat frame
- Those with a limited range of movement in their ankles or wear a prosthesis should ensure that if they have foot stretchers that rely on heel-restraints as a method of release in the event of a capsize, they should be able to demonstrate ability to safely remove their feet from the boat

Cold Water Immersion (Hypothermia)



Increased risk for rowers who have thermoregulation dysfunction

i.e. spinal cord injury - Poikilothermic (when the body assumes the temperature of its environment) in a very short period of time, where safe and expedient removal from the water is essential



Autonomic Dysreflexia



Autonomic Dysreflexia

CLINICAL EMERGENCY: spinal cord injuries above T6

LIFE THREATENING: if not immediately treated

SYMPTOMS

- Increased Blood Pressure
- Pounding Headache
- Profuse Sweating
- Nasal Congestion
- Bradycardia
- Flushed, Clammy, Goosebumps

CAUSES

- Bladder (Distention/UTI)
- Any PAIN Causing Discomfort
- Bowel Impaction
- Pressure Sore or Skin Burns
- Fracture
- Ingrown Toenails

Medical Alert

Autonomic Dysreflexia

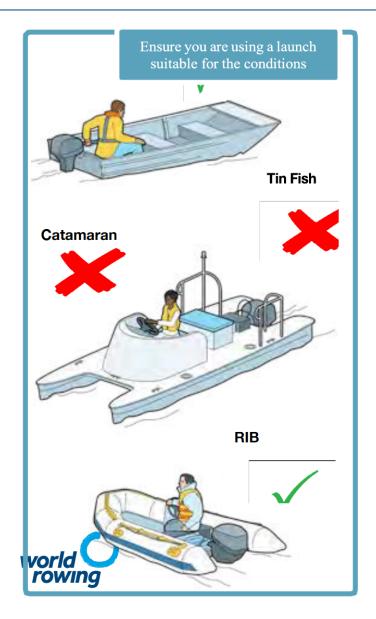


- O This is a sudden increase in blood pressure and corresponding decrease in heart rate. The condition occurs in rowers with complete spinal injuries at T6 and above. It can occur anywhere within the rowing environment but is of heightened concern on water
- Para-Rowers predisposed to dysreflexic episodes should either carry relevant medication in a waterproof chest pocket or have declared the cause of such episodes during classification
- The rower will be aware of symptoms together with coach and use some form of signing to Rescue boat
- o If a rower suffers from Autonomic Dysreflexia, the emergency response is to raise the head above their knees (preferably in a sitting position). This position naturally reduces blood pressure. Look for the causes and seek medical help

Rescue/Safety Boat



- Appropriate rescue launch with low freeboard and/or drop-bow for safe rescue of adaptive rowers who are likely to have reduced mobility or muscle weakness in the lower extremities
- Sufficiently stable to allow safe recovery of people from the water
- Should have naturally buoyant properties ('tin fish' not appropriate)
- Low sides to make it easier getting people out of the water
- Fitted with a propeller guard to protect people in the water
- Quick and easy to manoeuvre with low wash characteristics
- Enough space to carry injured persons lying down to safety
- Carry safety equipment with the addition of a 'horseshoe life ring' and 'safety knife'
- Well maintained, with a recorded maintenance and service history
- Positioned such that they stay close to the competitors and are strategically located along the event course with radio links
- Enough capable crew to rescue a potentially uncooperative casualty
- In addition to the driver, each rescue boat should have at least one crew member and together they should be able to rescue a rower who cannot release the straps. This individual may need to enter the water

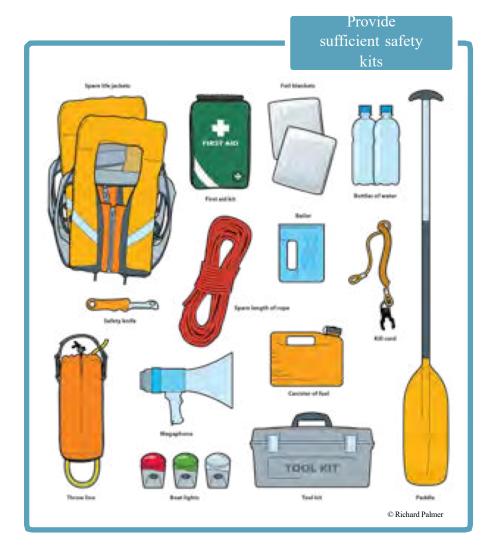


Rescue/Safety Boat Kit



- Event organisers should ensure that there are an adequate number of safety boats with recommended launch rescue kit
- Each safety team should keep good communication using radios and/or mobile phones













Risk assessment template - completed example

Author	Activity		
Rowing club, location or event	Date	Revision	

			Adaptive		Risk assessment		ment	Reduce lik	elihood of risk	Mitigate	the consequences	quences Action Parties				
1	No.	Hazardous event	group at risk (use if appropriate)	Potential consequences	Severity (1-5)	Likelihood (A-E)	Risk (H, M, L)	Barriers	Action to maintain barriers	Barriers	Action to maintain barriers					
		Capsize														
		0	All	Inlury	2	D	Mod	Circulation cattern and boating restrictions during bad weather	Marshals present at all times	Health, zafety & emercency response plan	Adequate rescue bunch, medical & first aid cover during training and regatts					
		Cacatae during practice or racing	PHYSICAL - prosthetics, orthodics, hand, lec, trunk strappline	Entragment under water	4	D	Int	Modification to footstretcher to facilitate prosthesis. Use of hand strapoinz to hold pariscull	Check equipment at boating pontoons to ensure rowers are compliant with British Rowing adaptive safety guidelines. All hand strespoing must be able to be released immediately by outlok mouth action. All leafty and strespoing must be single-point release with no mechanical buddles and be released on the same side and in the same manner and direction.	Health, zafetr & emercency response plan	Ensure that umplies, control commission, marshalls and the safety team are aware of resulations. Appropriate rescue is unch with low freeboard and/or dros-bow for safe rescue of rowers with reduced mobility in lower extremities					
		Capsize during practice or racing	VISUAL - use of zero-vision or light eliminating evewear	Disorientation, potential to induce canic	3	В	Low	Increased risk with visual impaired rowers in 'small bosts' (stability) inability to see water surface debris or hazards.	Encourage all visually impaired rowers to conduct controlled capsize drills with zero-vision enewear	Health, zafety & emercency response plan	Inform safety team that visually impaired rowers are taking part in training/racing					
		Capsize during practice or racing	INTELLECTUAL	Possible unpredictable response in the event of a capsise, potential to induce panic	3	В	Low	Attaching to start in adverse weather conditions	Establish with coach of ID rowers can swim or have appropriate buorancy aid/ lifelacket	Health, safety & emergency response plan	Inform safety team that rowers with an intellectual disability are on the water					







Cold water Immersion & Hypothermia Capits during practice or racing Hypothermia Regatts environment, boating pontoons, start Atlanto-Axial Instability (AAI)	Adaptive		Risk	assess	ment	Reduce lik	elihood of risk	Mitigate	Action Parties						
No.		group at risk (use if appropriate)	Potential consequences	Severity (1 -5)	Likelihood (A-E)	Risk (뉴ဣ니)	Barriers	Action to maintain barriers	Barriers	Action to maintain barriers					
	Immersion														
		PHYSICAL	Increased risk for nowers who have thermoresulation disfunction i.e. spinal cord injury. These rowers are unable to ahiver to conserve heat at or below their injury level. Individuals with a complete SCI at T6 and above are at carticular risk; and can become policilothermic (when the body assumes the temperature of its environment). Rowers with Down's syndrome are also at increased risk of inverthermia.	2	В	Mod	Important for rowers who rely on lateral stability in the form of contoon floats, to ensure that they have adequate buchancy and are attached correctly	The provision of stabilising pontoons for AS and TA rowers, provides a more stable obtform, by providing additional lateral stability for rowing shells. The pontoons must be fixed in position so that when the rower is seated in the balanced boat, both pontoons are horizontal and, at a minimum, touch the water	Health, zafetz & emergency response plan	Ensure that umpires, control commission, marshalls and the safety team are aware within adaptive rowins. Appropriate rescue issued within adaptive rowins. Appropriate rescue issued with low freeboard and/or drop-bow for safe rescue of rowers with reduced mobility or muscle weakness in lower extremities. Safe and expedient removal from the water essential					
	Hypothermia														
	environment, boating pontoons,	PHYSICAL	Increased risk with rowers who have thermoreculation disfunction i.e. soinal cord inture. Ther can not sweat in order to dissipate heat at or below their initure level. Individuals with a complete SCI at T6 and above are at carticular risk; and can become policiothermic (when the body assumes the temperature of its environment). Rowers with Down's smdrome are also at increased risk of hypothermia.	2	с	Mod	Prolonzed waiting periods on boating pontpons. Waiting at the start for races dur- ing hot weather	Consider scheduling adaptive mass outside the hottest times of the day. Identify rest areas that are shaded. Encourage rowers to keep hydrated and wear appropriate clothing, including the use of "ice lackets"	Health, safety & emercency recoonse plan	Ensure that umplies, control commission, marshalls and the safety team are aware of thermoregulation issues within adaptive rowing					
	Capaixe during practice or racing	PHYSICAL/ID	Increased risk with rowers who have Down's syndrome. Atlanto-Axial Instability (AAI) characterised by excessive movement at the Junction between the atlas (CI) and axis (C2) as a result of either a bony or lizamentous abnormality. This would be a potential for concern in the event of a capsize and subsequent rescue	2	В	Mod	Unstable boats without supplementary floatsion - pontoon floats	Pre-activity screening (classification) to determine risk. There should be no sign of progressive invocative factories in which the muscle fibres do not function for any number of reasons, resulting in muscular weakness). Individuals should have good head / neck muscular control. If any of the symptoms are present, be cautious and refer the rower to their doctor to see if there are any medical control-indications for taking	Health, zafety & emergency response plan	Ensure that rower has appropriate documentation including classification to determine that there are no medical contra-indications for taking part in rowing activities.					

part in rowing activities.









	lo. Hazardous event	Adaptive		Risk	assess	ment	Reduce likelihood of risk		Mitigate the	Action Parties					
Vo.		group at risk (use if appropriate)	Potential consequences	Severity (1 -5)	Likelihood (A-E)	Risk (ルベル	Barriers	Action to maintain barriers	Barriers	Action to maintain barriers					
	Autonomic Dysreflexia														Ī
	Can occur arowhere within the rowine environment, is of heathead concern on water	PHYSICAL	Sudden increase in blood pressure and corresponding decrease in heart rate. Occurs in rowers with complete spinal injuries at 76 and above. Common sources are: I. A full or distended bladder (most common source of AD) 2. Bladder related causes such as bladder infection, spinars, or stones 3. A full or impacted rectum (including constitution) 4. Pressure sones 5. Tight clothing, irritating wrinkles or folds, or creating underwear or cants. 6. An injury below the spinal cord injury such as a broken aridis, cut or screece 7. Anything that produces discomfort below the level of injury	5	В	let		Require 'declaration of medical condition'. This will be declared during classification. A history of dramflests should be detailed on this form. Should a rower be predisposed to dramflests, they should either carry relevant medication in a waterproof chest pocket or with coach. The rower will be aware of armstorm speaker with coach and use some form of signification rescue best. Encourses SCI rowers at risk to emoty bladder prior to training/competition.	Health, safety & emercency response olan. If a rower safety AD, the emergency response is to raise the head above their losest constraint in a sitting contion. This contion naturally reduces blood presume. Look for the cause of AD and seek medical help	Ensure that all adaptive rowers have been classified in accordance with British Rowins classification procedures which includes a "declaration of medical conditions"					
	Pressure sores, cuts & brutses														Ī
	Of particular concern with rowers who have a loss of sensation in part of their bods. Those with spinal cord injuries are at particular risk	PHYSICAL	Rowinz is one of the most dynamic of all seated sports and individuals with spinal cord injuries in particular are suspectible to tissue pressure sores. Many rowers will have his or her own preferred method of skin protection that the coach should attempt to utilise in and out of the boat	4	с	Sub	Transferring to bost, avoid sitting on hard surface for prolonged periods or share projections that our mark, ec. rigger. Protect heels from pregsure marking	Determine during classification rowers oredisposition to developing oressure sores. Bost manshalls to inspect pontoons for any share projections	Health, zafetz & emerzencz rezoonze olan	Ensure that all adaptive rowers have been classified in accordance with British Rowins classification embedures which includes a 'declaration of medical conditions'					
	Trip hazards														
	Can occur arowhere within the rowinz environment. Increased risk with rowers who are visually impaired and rowers with reduced mobility	All	Trio hazards for visually impaired rowers, wheelchair users, rowers with amoutations on crutches	2	В	Mod	General hazarda within rowinz environment	Event sudit should be carried out to determine octential hazards, such as stees, ground obstacles in bosthouse (seats, riczers)	Health, zafetr & emercency response plan. Complete society sudit to identify potential historia. It should follow a logical secuential lourner following how members enter, natigate, use and leave the club; starting from the club perimeter, through car parking areas, pedestrian routes, building entrances, reception areas, information, delivery, horizontal and vertical circulation routes, internal posses, furtilities and autin.	All clubs wishing to host adaptive events should identify potential hazards by using approved access audit which includes: 1. Approach routes 2. Car Parking 3. Footpaths 4. Steps 5. Access to bosthouse 6. Access to water 7. Club – internal 8. Showers/changing facilities					

