



Introduction

We have seen an increasing number of requests from clubs for information around medical guidelines at their events. As a result of this and recent Health and Safety changes, we feel it is important to support our clubs with as much guidance as possible.

Motorsport is inherently dangerous. Access to affordable and appropriate medical services has been an issue for MNZ, promoters and affiliated clubs. MNZ recognizes the difficulties in obtaining affordable and appropriate medical services. To ensure the sport has a viable future, MNZ has consulted with stakeholders to formulate an agreed level of required medical services appropriate to each discipline and level of event. Information was gathered through consultation with RaceSafe Australia, medical directors and medical providers.

Different disciplines and events present different potentials for injury to participants and affiliated clubs and/or promoter must provide a suitable level of medical response and treatment appropriate to the risk profile of the event. For example, it is acknowledged that a ride day may require less medical response than a competition event; also that an increase in the number of riders or competitors may increase the risk and therefore may require a higher level of response and treatment.

Overview of Club Medic Guidelines

Every event and/or race meeting must have a medical service able to provide appropriately skilled personnel and equipment to assess and treat any injured competitor, official, volunteer or spectator.

It is accepted that different events present varying levels of potential injury. There are four levels of care which provide specific requirements for determining the services required depending on the type and risk associated with a given event. The levels of care are defined as the follows:

Level of Care Required			
Risk		Level of Care	Description of Care
Low		Basic Care	Basic Care is that care provided by a person who is qualified with a recognised certificate to provide first aid and Basic Life Support
Moderate		Intermediate Care	Intermediate Care implies skills beyond a basic first aid certificate level (casualty assessment, spinal immobilisation, oxygen, and defibrillation).
High		Advanced Care	Advanced Care includes the ability to deliver lifesaving treatments and interventions.
Extreme		Critical Care	Critical care implies the ability to deliver a wide range of intensive care treatments and procedures.

In considering the level of medical services to be provided, it is important that the following four phases of medical intervention are addressed:

Phase 1 – Respond to a fallen rider

Phase 2 – Transport the fallen rider to an area for stabilisation

Phase 3 – Stabilisation of an injured rider

Phase 4 – Transport away from event

The medical services must be to the satisfaction of Motorcycling New Zealand (MNZ). Motorcycling New Zealand may request the Club or Private Promoter to modify their medical service requirements if they deem it necessary.

MNZ does not assume responsibility for medical service providers. Clubs and private promoters should take all reasonable care and undertake their own diligence to ensure they are satisfied with the level of care to be provided at their event. Compliance with the minimum requirements remains the responsibility of the club or private promoter to whom the event permit is granted.

The club or private promoter is responsible for ensuring that the medics provided on the day match that of the specification prior to commencing. **Any disparity must be reported to MNZ with an application for dispensation.**

Medical Services for Spectators and the Public

Clubs & private promoters must consider the provision of medical care for their spectators and officials. Large gatherings of 1000 spectators are known to have an increased medical workload.

Clubs and private promoters should ensure that appropriate medical services are provided for the crowd. In some cases, it may be appropriate to utilise track medical resources including medical vehicles, personnel and facilities, on the understanding that this may delay racing. At large events, where crowds are expected to exceed 500, additional crowd specific personnel are required. This could be provided by the same medical service provider supplying services for the event by simply increasing personnel numbers, or engaging an independent service provider to focus on spectator medical care.

Event Specific Considerations

Clubs and private promoters should also consider the distance to the nearest major hospital and other factors (i.e. other sporting events which attract significant numbers, isolated events, weather conditions etc.) when considering the medical requirements appropriate for the event. For example, if a minor or moderate event was being held in a remote area, the club or private promoter should consider increasing their level of care and/or medical resources available.

For events that are being held further than 30mins from the nearest hospital, or that it is reasonably likely that an ambulance will not be immediately available, and at the scene of an incident within 30mins, then the next higher Care Level should be met.

Communication

Adequate communication at each event is critical along with a clear schedule of command. Medics should be clear on the track layout and the naming of parts of the track. It is essential to conduct a medical briefing prior to any meeting to ensure this is clear. Providing medics a track layout with clearly numbered areas of the track is required. Adequate communication with Medics through radio/cellphone is essential.

Medical Matrix

The table below summarises the requirements for each level of care. These levels will be elaborated upon in the following chapters:

Level of Care Required	Personnel Required	Vehicles	Facilities
Basic Care	(1-50 active participants) 1 x First Responder (50 + active participants) 2 x First Responders	Suitable vehicle	First Aid Room/First Aid Facilities
Intermediate Care	1 x EMT or Registered Nurse (RN) + 1 x First Responder	Patient Transport Vehicle	First Aid Room/First Aid Facilities
Advanced Care	1 x Paramedic + 2 x EMT + 1 x First Responder	Patient Transport Vehicle	Trackside Medical Centre
Critical Care	2 x Intensive Care Paramedic + 2 x Paramedic + 2 x EMT Could be x1 ICP, 2 para, 2 EMT, 1-2 first responders, depending on event size	MIV	Trackside Medical Centre

Medical Matrix

	Road Racing	Street Racing	Motocross/ Supercross & Miniature TT	Cross Country	Enduro	ATV	Moto Trial	Training & Practice	Trail Rides
National Championship	C	N/A	C	A	A	A	I	N/A	N/A
Club (1 – 50 participants)	A	C	I	I	I	I	B	N/A	N/A
Club (50 + participants)	A	C	A	A	A	A	I	N/A	N/A
Non racing, recreational riding or practice (1 – 50 participants)	N/A	N/A	I	I	I	I	I	I	I
Non racing, recreational riding or practice (50 + participants)	N/A	N/A	A	A	A	A	I	A	A

Basic Care
Intermediate Care
Advanced Care
Critical Care

DRAFT

Basic Care – Minimum Requirements

- Personnel
- 1 x First Responder (1-50 active participants)
 - 2 x First Responders (51 + active participants)

Vehicle

- A suitable vehicle to enable medical personnel to reach the scene of an incident anywhere at the event and transport the injured rider for triage and assessment.

Facilities

- First Aid Room / First Aid Facilities

Personnel

Personnel must have sufficient qualifications, training and experience to take action autonomously and immediately in case of an accident.

Vehicles

Vehicles used at Motorcycling New Zealand events must be safe and appropriate for the purpose. The vehicle must be able to contain a stretcher and transport the patient safely to the first aid room or to await transport to hospital. Desirable to have a club official available to drive the patient and medical personnel back to the onsite medical facility.

Facilities

The first aid facility must:

- Be readily accessible from the competition area;
- Ensure patient security and privacy;
- Be a permanent or temporary structure with adequate space to treat injured riders for both major and minor injuries;
- Have first aid supplies to treat two riders simultaneously, as well as sufficient stock for the whole event;
- Be a non-smoking zone.

Note: a hospital outside the circuit is not an alternative to a first aid room at an event.

First Aid Room (to be equipped with)

- Well stocked first aid kit;
- Stretcher;
- Automatic external defibrillation (AED) recommended;
- Equipment for Basic Life Support

Intermediate Care – Minimum Requirements

Personnel • 1 x EMT or Registered Nurse (RN), provided the RN has prehospital emergency experience and is familiar with resources and current national clinical guidelines pertaining to EMTs, 1 x First Responder

Vehicles • A Patient Transport Vehicle

Facilities • Trackside Medical Facility, First Aid Room

Personnel

Personnel must have sufficient qualifications, training and experience to take action legally, autonomously and immediately in case of an accident.

Vehicles

Vehicles used at Motorcycling New Zealand events must be safe and appropriate for the purpose. All drivers must be experienced in driving the vehicle, and be familiar with the course. The drivers may be inclusive of or additional to the individual personnel requirements listed for each level of care. Desirable to have a club official available to drive the patient and medical personnel back to the onsite medical facility.

Vehicles are not to enter/cross the track at any time unless directed by a course official who can ensure the safety of both riders and medics.

Facilities

The trackside medical facility or first aid room must:

- Be readily accessible from the competition area;
- Ensure patient security and privacy;
- Be a permanent or temporary structure with adequate space to treat injured riders for both major and minor injuries;
- Ensure sufficient trauma and first aid supplies to treat two riders simultaneously, as well as sufficient stock for the whole event;
- Be a non-smoking zone.

Note: a hospital outside the circuit is not an alternative to a first aid room at an event.

Track Medical Centre / First Aid Room (to be equipped with)

- Well stocked first aid kit
- Cervical collars to fit the range of competitors (ie an adult and pediatric multi-size collar, or a set of collars of different sizes);
- A scoop stretcher or spinal board which enables a casualty to be immobilised and moved in an emergency;
- Equipment for airway management and ventilation;

- Medical oxygen, with masks suitable for therapeutic oxygen administration, and a bag mask resuscitator suitable for emergency resuscitation;
- Equipment for cardiac monitoring and resuscitation, including blood pressure and ECG monitors and a defibrillator, which may be semi-automatic;
- Regionally appropriate drugs including inhaled analgesia.

DRAFT

Advanced Care – Minimum Requirements

Personnel • 1 x Paramedic, 2 x EMT, 2 x First Responder
(or Registered Nurse (RN). in place of EMT, provided they have pre-hospital emergency experience and are familiar with resources and current national clinical guidelines)

Vehicles • Patient Transport Vehicle

Facilities • Trackside Medical Centre

Personnel

Personnel must have sufficient qualifications, training and experience to take action legally, autonomously and immediately in case of an accident.

Vehicles

Medical vehicles used at Motorcycling New Zealand events must be mechanically sound. The vehicles must be fitted with visual and/or auditory devices which must be operated when the vehicle presents a hazard to riders, spectators or officials. The vehicles must be equipped to communicate with the Chief Medical Officer (if appointed), Medical Services Coordinator and Race Control.

All drivers must be experienced in driving the vehicle, have first aid skills and be familiar with the course. The drivers may be inclusive of or additional to the individual personnel requirements listed for each level of care. Desirable to have a club official available to drive the patient and medical personnel back to the onsite medical facility.

Vehicles are not to enter/cross the track at any time unless directed by a course official who can ensure the safety of both riders and medics.

Patient Transport Vehicle (PTV)

A Patient Transport Vehicle is a vehicle or ATV which is staffed and equipped to deliver medical care and assistance to injured riders whilst transporting them safely to the track medical facility or whilst awaiting transport to hospital. The PTV must be designed to access all points of the course, which may require all-terrain or four-wheel drive.

Facilities

The Track Side Medical Facility must:

- Be readily accessible from the competition area and have ready access to public roads for subsequent transport of patients to hospital;
- Ensure patient security and privacy;
- Be a permanent or temporary structure with adequate space to treat injured riders for both major and minor injuries.
- Have staff in proximity at all times (if operated);
- Be a non-smoking zone;
- Ensure sufficient trauma and first aid supplies to treat two riders simultaneously, as well as sufficient stock for the whole event.

Note: a hospital outside the circuit is not an alternative to the medical center at an event.

Patient Transport Vehicle (to be equipped with)

- Portable oxygen supply and manual ventilator (self inflating bag)
- Skill appropriate airway management equipment including end-tidal CO2 detector;
- Suction equipment;
- Immobilisation (limb and spine) equipment including a scoop stretcher or spinal board;
- Sterile dressings and first aid supplies;
- Cardiac monitor – defibrillator;
- Drugs for resuscitation and analgesia;
- Intravenous infusion equipment and IV Fluid;
- Pulse oximeter, sphygmomanometer and stethoscope;
- Stretcher (suitably restrained in vehicle).

Trackside Medical Centre (to be equipped with)

- Well stocked first aid kit
- Cervical collars to fit the range of competitors (ie an adult and paediatric multi-size collar, or a set of collars of different sizes with spares);
- A scoop stretcher or spinal board which enables a casualty to be immobilised and moved in an emergency;
- Portable medical oxygen, with masks suitable for therapeutic oxygen administration, and a bag mask resuscitator suitable for emergency resuscitation; (a suction pump must be available);
- Equipment for intravenous access, fluid therapy and administration of medications;
- Medications, including Analgesics – Paracetamol, NSAIDs, Methoxyflurane, Morphine. Resuscitation drugs – Adrenaline, Glucagon, Atropine, Naloxone;
- Miscellaneous medications – Aspirin, Glyceryl Trinitrate, Salbutamol;
- Equipment for cardiac monitoring and resuscitation, including blood pressure and ECG monitors and a defibrillator; and
- Regionally appropriate drugs and intravenous fluids including injectable and inhaled analgesia, anticonvulsants, cardiac resuscitation drugs and resuscitation fluids.

Critical Care – Minimum Requirements

- Personnel
- 2 x Intensive Care Paramedic, 2 x Paramedics, 2 x EMT. Or see suggestion in Medical Matrix on pg 3.
 - A driver, experienced in driving the vehicle who has first aid skills and is familiar with the track / course. This may be inclusive of, or additional to the above personnel requirements.

-
- Vehicles
- Vehicle that is authorised to transport patients on public roads and that is willing to be present at all times during practice and racing; and
 - An additional vehicle that is suitable to retrieve an injured patient from the track.

-
- Facilities
- Trackside Medical Centre

Personnel

Personnel must have sufficient qualifications, training and experience to take action legally, autonomously and immediately in case of an accident.

Vehicles

Medical vehicles used at Motorcycling New Zealand events must be road worthy. The vehicles must be fitted with beacons and/or auditory devices which must be operated when the vehicle presents a hazard to riders, spectators or officials. The vehicles must be equipped to communicate with the Chief Medical Officer (if appointed), Medical Services Coordinator and Race Control.

All drivers must be experienced in driving the vehicle, have first aid skills and be familiar with the course. The drivers may be inclusive of or additional to the individual personnel requirements listed for each level of care. It is desirable to have a club official available to drive the patient and medical personnel back to the onsite medical facility.

If the emergency ambulance leaves the circuit or is unavailable (i.e. treating a patient), it must be replaced by another emergency ambulance before any competition activity is resumed.

Medical Intervention Vehicle (MIV)

A Medical Intervention Vehicle (MIV) is a vehicle used to convey medical personnel and equipment to the scene of any incident where a medical response may be required. The MIV must be suitable to be driven on the track during competition and must be driven by a suitably skilled and experienced driver.

Where more than one MIV is necessary to ensure adequate response times to any scene at the track, they should be positioned in consultation with Senior Officials and the CMO (if appointed).

Each MIV must be able to communicate with Race Control (radio is recommended) and with the Trackside Medical Centre.

Vehicles are not to enter/cross the track at any time unless directed by a course official who can ensure the safety of both riders and medics.

Helicopter (Emergency Air Transport)

A helicopter is recommended for events being held in remote locations.

Facilities

The Track Side Medical Center must:

- Be readily accessible from the competition area and have ready access to public roads for subsequent transport of patients to hospital;
- Ensure patient security and privacy;
- Be a permanent or temporary structure with adequate space to treat injured riders for both major and minor injuries;
- Have staff in proximity at all times (if operated);
- Be a non-smoking zone;
- Ensure sufficient trauma and first aid supplies to treat two riders simultaneously, as well as sufficient stock for the whole event;
- Ensure the equipment should be of a level appropriate to those that are using it.

Note: a hospital outside the circuit is not an alternative to the medical center at an event.

Medical Intervention Vehicle (to be equipped with)

- Well stocked first aid kit;
- Cervical collars to fit the range of competitors (i.e. an adult and a paramedic multi-size collar, or a set of collars of different sizes with spares);
- A scoop stretcher which enables a casualty to be immobilised and moved in an emergency;
- Portable medical oxygen, with masks suitable for therapeutic oxygen administration, and a self-inflating bag suitable for emergency resuscitation; a suction pump must be available;
- Advanced airway management equipment, including laryngeal mask airways, laryngoscopes and endotracheal tubes as a minimum;
- Equipment for intravenous access, fluid therapy and administration of medications;
- Scheduled medications as per scope of practice for attending medical personnel;
- A defibrillator which can monitor an ECG rhythm.

Trackside Medical Centre (to be equipped with)

- Well stocked first aid kit;
- Equipment for advanced airway management, including endotracheal intubation, surgical airway and ventilation, including suction, oxygen and anesthetic agents;
- Equipment for intravenous access and fluids including crystalloid solutions;
- Equipment for thoracic decompression by tube or needle thoracostomy and drainage;
- Equipment for cardiac monitoring and resuscitation, including blood pressure and ECG monitors and a manual defibrillator;
- Equipment for immobilising the spine at all levels and for the splinting of limb fractures;
- Drugs including analgesia, anticonvulsants, paralyzing and anaesthetic agents, cardiac resuscitation drugs and resuscitation fluids, as per scope of practice for attending medical personnel.

Providers with Medical Directors

MEDICS ON SCENE			
Area	Address	Postal Address	Contact Details
Hawkes Bay			http://www.medicsonscene.org.nz/ 0508 667236/06 878 4788 Nathan Thompson Operations Director Mobile : 021 1326432 info@MedicsOnScene.org.nz

Medical Director: Dr Graeme McCrory

PRO-MED			
Area	Address	Postal Address	Contact Details
Head Office Timaru	22 Sheffield Street Washdyke TIMARU 7910	PO Box 46181 TE MUKA 7948	03 971 5276 0508 PROMED info@promed.ac.nz
Christchurch	IZONE Unit 9, 35 Illinois Drive Rolleston CHRISTCHURCH		0508 PROMED info@promed.ac.nz
New Plymouth	36 Paraita Road Bell Bock NEW PLYMOUTH 4373		Katherine Kelly 0508 PROMED katherine.kelly@promed.ac.nz
Wellington	5 Shearwater Rise Paraparamu Beach WELLINGTON		Dean Taylor 04 299 1098 dean.taylor@promed.ac.nz

Medical Director: Dr Rob Visser

ST JOHN			
Area	Street Address	Postal Address	Contact Details
			0800 STJOHN 0800 785 646
Auckland (National Headquarters)	2 Harrison Road AUCKLAND 1741	Private Bag 14902 AUCKLAND	09 579 1015
Central Region	63-65 Seddon Road HAMILTON 3240	Private Bag 3215 HAMILTON 3240	07 847 2849
Wellington	55 Waterloo Quay WELLINGTON 6143	PO BOX 10043 WELLINGTON 6143	04 472 3600
South Island Region	100D Orchard Road CHRISTCHURCH 8140	PO BOX 8140 CHRISTCHURCH 8140	03 353 7110

Medical Director: Dr Tony Smith

OTHER PROVIDERS			
Area	Street Address	Postal Address	Contact Details
Wellington Region			Wellington Free Ambulance Chris Buckley Medical Director: Dr Andy Swaine
Waikato			NEMS Medical Contact: Neil Thistlethwaite Medical Director: Muir Wallace Ambulance EMT Contact: Mike Bowen Medical Director: Mark Haywood PH: 0274 477781
Nelson			MediMax Maxwell Clark medimax@xtra.co.nz Ph: 03 544 1484
Auckland/Waikato			TransitCare NZ Ltd Contact: Sean Coleman 0226991800 027218 0031 Medical Director: Dr Gillian Hood

Last updated May 2019