ROAD RACE MEDICAL SERVICES

A GOOD PRACTICE GUIDE

FOR THE PROVISION OF FIRST AID & MEDICAL SERVICES AT

UK ATHLETICS LICENSED ROAD RACES

RUNBRITAIN MEDICAL ADVISORY GROUP

UK ATHLETICS

Revised 21st January 2012
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UKA ROAD RACE MEDICAL SERVICES

INTRODUCTION

Background

UK Athletics is responsible for management and administration of the licencing process for athletics events within the United Kingdom of Great Britain and Northern Ireland delegated to their respective national association (Athletics Northern Ireland, England Athletics, Scottish Athletics & Welsh Athletics)

The Michael Watson case in 1991 reinforced the legal responsibility of sports governing bodies to ensure the provision of adequate medical facilities at their own licenced events

The tragic death of Anna Loyley in 1998 prompted a review into safety and medical provision at UK road races by the National Sports Medicine Institute, resulting in the adoption of voluntary levels of medical cover within UK Athletics Licence Standards in 2004

The death of three competitors at the 2005 Great North Run led to the setting up of the Road Race Medical Conference, a group of leading UK road races and Triathlons meeting to combine expertise from their race directors and medical directors. Their initial project was to publish best practice advice for competitors preparing for endurance events on the Runners Medical Resource website at www.runnersmedicalresource.com in 2006

A report by UKA’s Chief Medical Officer in 2006 revealed wide variation and serious shortcomings in the medical care provided at UKA licenced road races. 24% of marathons & half marathons were found not to have any first aid at all, and the majority of licenced road races (even at marathon or half marathon distance) did not have a doctor. Many event organisers were considered to be medically understaffing their event, underestimating the actual risk of injury or medical incident. The majority of licenced races did not advertise the level of medical care provided, and 50% of those who did advertise a level of medical care did not meet the level advertised

RunBritain

In 2007 RunBritain (formerly the UKA Road Running Management Group) was established by UK Athletics to provide strategic leadership for road running in the United Kingdom

RunBritain has been tasked to set standards of delivery for road running (how the sport is organised), to facilitate sharing of best practice, assisting race organisers to make the administration of road races easier, ensuring quality control & helping to improve the overall standard and safety of road races in the UK

The Road Race Medical Conference subsequently accepted an invitation to become the official ‘RunBritain Medical Advisory Group’

UKA Licence Standards

Road races organised by athletic clubs & members affiliated to the governing body UK Athletics (through their national association) are required to meet a number of safety and quality standards as a condition of obtaining a UKA road race licence (and public liability insurance) for the staging of a race
For the purposes of this guidance a ‘road race’ is defined as any athletic or running event receiving a UK Athletics road race licence

To meet UKA licence conditions road race organisers are required to carry out a risk assessment and to provide suitable qualified first aid and medical services at the start, on the course and at the finish of the race according to the course route, race distance, competitor numbers and weather conditions

Responsibility for updating UKA Licence Standards has been passed to the RunBritain technical group. The current version of UKA Licence Standards can be obtained from the Race Directors’ Portal on the Runbritain website at www.runbritain.com/rdp/

Recommended amendments to UKA Licence Standards

The medical working group recommend that with effect from 1st January 2012 UKA Licence Standards be amended to require race organisers to:

- **Undertake that the first aid and medical cover for the event will meet the requirements of the recommended minimum standards contained in this guidance note**

- **Provide full details of the first aid and medical cover which will be provided for the event at time of licence application, together with details & justification for any departures from the recommended minimum standards**

The medical working group further recommend that:

- The regional licencing panel (or licence officer) should check the proposed first aid and medical cover against the guideline standards at time of licence application, and consider any proposed departures from the guidelines in determining whether a licence application should be approved

This was considered by UKA who determined that the race promoter must produce a medical risk assessment in accordance with these guidelines. This risk assessment must be available for inspection by UKA, Home Country, local authority, landowner and any other agency representative. And that if there is any departure from the guidelines, advice should be sought from UK Athletics Services

- The race rules for licenced road races should also include a requirement for competitors to complete the pre-printed contact and medical conditions form on the rear of competitors’ race numbers before competing

Again, this was considered by UKA who determined that this should remain a recommended, rather than mandatory requirement.

The medical working group also recommend that:

- The race adjudicator should check and report on the actual first aid and medical cover provided at the event on race day

- Road races should include the medical disclaimer in their conditions of entry - requiring the runner’s consent for his/her personal and medical details to be released by the medical team to the race organiser (to inform next of kin and statutory authorities) in the event of a medical emergency
- The post race medical return form should be amended to record the most significant medical outcomes: the total number of medical contacts at an event, the number of hospital transfers, resuscitations and fatalities, recorded according to whether they occurred on either the course route or at the finish.

UKA Good Practice Guide to Road Race Medical Services

The Home Office ‘Good Practice Guide to Sporting Events on the Public Highway’ 2006, the current statutory guidance for road races in the UK, presumes that advice on medical services for participants will be provided by the governing body for each respective sport.

This guidance on medical services at road races has been drafted by a working party from the RunBritain Medical Advisory Group based on current best practice knowledge. It is intended as a practical guide to road race organisers, their medical providers and area licence officers on how to determine the specific first aid and medical resources which would be appropriate for their own particular race. Some of the more basic guidance on medical services is intended to inform race organisers, whilst advice on race management has likewise been included to assist medical providers.

This guidance does not attempt to conduct a review of appropriate medical interventions, or treatment guidelines. Medical treatment protocols for resuscitation at road races should follow the guidelines of the UK Resuscitation Council. Protocols for other medical interventions (e.g. exercise induced collapse, hyperthermia and hypothermia) will need to be defined and agreed between the medical provider and the event organiser.

This advice is particularly targeted to assist organisers of small to medium sized road races, defined as 100 to 5,000 entrants – where general similarities of medical cover were more marked. But the basic criteria and methodology will also have general application to determine appropriate first aid and medical services for larger races over 10,000 entrants – where a more diverse range of solutions was observed.

It is intended that this guidance will be reviewed by the working group on a periodic basis, based on feedback from races and ongoing analysis of the Road Race Medical Returns.

Duty of Care & Basis of Risk

Many races have been staged over many years without serious incident. But past performance is not a reliable indicator of future outcome. Runners competing in endurance events put themselves under significant additional stress, and significantly increase their background risk of harm, although this is largely offset by long-term health benefits. Race organisers owe a clear legal duty of care to:

- Provide appropriate first aid and medical facilities for competitors, spectators, volunteers (and staff) sufficient to respond to foreseeable additional medical risks which might be reasonably anticipated arising out of participation at their event, and to

- Ensure their event does not place an undue burden on the NHS

This legal duty of care cannot be avoided or transferred by the organiser to the participant, for instance through disclaimers on entry forms placing all risk on the competitor – indeed in the event of a claim the use of such a disclaimer could be interpreted as being evidence of an organiser’s clear intent to avoid meeting their duty of care.
It must be accepted that all activities, including participation in endurance running, involve some level of inherent risk and a balanced judgement must be made by race organisers and competitors between practical and reasonable delivery of services and potential (ie anticipated or likely) medical outcome.

However such judgement can only be made on the basis of clear understanding of the risks and issues involved, and informed consent by the competitor. Accordingly, race organisers should warn competitors of the additional risks involved in participating in endurance events, and their own responsibility to ensure proper preparation, training and fitness to compete through pre-event publicity (for instance by directing competitors to the www.runnersmedicalresource.com website), supplemented where necessary by race day information & public announcements

**OBJECTIVES**

**Management Objectives**

The management objectives of this advice are to ensure that UK Athletics licensed road races have consistently high medical standards by:

- Providing guidance on appropriate minimum first aid and medical services for respective types/sizes of races, for adoption within UKA Licence Standards
- Producing best practice medical advice for race organisers and first aid and medical providers (including model medical risk assessments)

**Clinical Objectives**

The clinical objectives of this advice are to ensure that UK Athletics licensed road races provide:

- An appropriate, effective & prompt first aid and medical service to competitors, spectators & staff/volunteers without imposing an undue burden on the NHS. Such care to be sufficient to cover anticipated risks, appropriate to the nature & circumstances of the event
- Basic life support (‘BLS’) plus defibrillation (where applicable) to injured competitors, spectators or event volunteers, officials, staff or contractors in a timely & effective manner – within 8 minutes of receipt of report of an injury by the event and/or medical team. Note: for this to be achieved an effective procedure for observation & reporting of injuries and deployment of resources will be required (see Appendix 7)

Unless otherwise indicated by the medical risk assessment it is assumed that:

- UKA licensed road races will provide basic life support (‘BLS’) plus defibrillation capability – reflecting the favourable response rate to treatment for the type of cardiac arrest typically experienced at endurance events (see concession for smaller races Matrix table 1)
- Sole reliance on ‘999’ NHS emergency ambulance service response will not meet the duty of care required of a road race organiser (see concession for smaller races Matrix table 1)
It should also be noted that event medical staff are also under a duty of care to the general public and may be diverted to respond to emergency calls by local residents etc if they are the nearest available medical resource. In the unlikely event that first aid / medical cover is diverted to another incident – so that facilities for the race are compromised - management procedures should be in place to postpone, divert or cancel the race.
‘STANDARD’ MINIMUM RECOMMENDED MEDICAL SERVICES

Assessment of a Race ‘Profile’

The working group identified a number of critical factors (or variables) effecting the medical resources required at any particular road race. These included (but are not limited to):

1. Race distance
2. Competitor numbers attending on the day (as distinct from entry numbers)
3. Course (& venue) terrain & configuration (eg point to point, out & back, single lap, multiple laps), isolation of venue, crowd numbers, single start (vs wave start or time trial)
4. Competitor age & experience / type of race (ie closed elite championship, experienced club runner, novice, fun run)
5. Accessibility of each section of the course for the first aid and medical team, both to attend and to evacuate patients
6. The past history of the event (the number of years staged in the current format, past medical incident data, significant changes from previous years etc).
7. Time of year (and day)
8. Weather & environmental conditions – temperature, humidity, precipitation (rain, snow etc), wind, exposure, ground conditions and altitude. Particularly when weather and/or environmental conditions anticipated on race day will be significantly different from those the competitors will be acclimatised to in the training period in the months & weeks /months before the event.
9. Availability of the nearest NHS Accident & Emergency Hospital - the maximum travel distance from the furthest part of the course & the suitability of the hospital to receive event casualties (determined through consultation through the safety advisory group)
10. Availability of first aid and medical providers – first aiders, doctors, nurses, paramedics, statutory ambulance service, voluntary and/or commercial providers. Local area protocols – eg ‘blue light’ service restrictions (eg availability of emergency ambulance drivers).
11. Reliability of communications across the whole course route (mobile phone and/or radio).

Note: it necessarily follows that a more cautious view should be taken of new events, or whenever significant changes are made to the course or competitor profile of an existing event, or where there are changes in event or medical management, availability of medical resources, communications etc.
MINIMUM RECOMMENDED MEDICAL SERVICES

MATRIX TABLE 1
RACE DISTANCE UNDER 11 KM (incl 5 km and 10km)

The 'minimum recommended cover' for medical services below is based on a number of assumed 'standard variable' conditions for a race, and needs to be adjusted to take into account the additional (or lesser) resources required to respond to less favourable (or more favourable) conditions existing at any particular race.

<table>
<thead>
<tr>
<th>Competitor numbers (finishers)</th>
<th>Under 150 runners</th>
<th>150 - 1,000 runners</th>
<th>1,000 - 5,000 runners</th>
<th>5,000 - 10,000 runners</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 First Aiders (per runner) on course</td>
<td>2 per 150</td>
<td>1 per 250 (min 2)</td>
<td>4 per 1,000</td>
<td>4 per 1,000</td>
</tr>
<tr>
<td>2 Max distance between FA posts</td>
<td>50% of race distance</td>
<td>50% of race distance</td>
<td>40%</td>
<td>30%</td>
</tr>
<tr>
<td>3 Mobile BLS –smaller races only</td>
<td>Either 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Mobile BLS plus AED</td>
<td>or 1</td>
<td>Either 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Mobile ALS</td>
<td>or 1</td>
<td>or 1</td>
<td>1</td>
<td>1 per 5,000</td>
</tr>
<tr>
<td>6 Ambulances</td>
<td>or 1</td>
<td>or 1</td>
<td>1 per 2,500 (min 1)</td>
<td>1 per 2,500</td>
</tr>
<tr>
<td>7 Paramedics (per runner)</td>
<td>1 per 5,000 (min 1)</td>
<td></td>
<td>1 per 5,000</td>
<td></td>
</tr>
<tr>
<td>8 Doctors (per runner)</td>
<td>1 per 2,500 (min 1)</td>
<td></td>
<td>1 per 2,500</td>
<td></td>
</tr>
<tr>
<td>9 Nurses (per runner)</td>
<td></td>
<td>1 per 5,000 (min 1)</td>
<td>1 per 5,000</td>
<td></td>
</tr>
<tr>
<td>10 First Aid or Medical Manager</td>
<td>Yes</td>
<td>Either</td>
<td>Either</td>
<td></td>
</tr>
<tr>
<td>11 Medical Director</td>
<td>or</td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>12 Dedicated Medical Control</td>
<td>Yes</td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>13 Sweeper bus</td>
<td></td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>14 Beds (per runner)</td>
<td>1 per 250 (min 1)</td>
<td>3 per 5,000 (min 3)</td>
<td>3 per 5,000</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
Where 2 requirements produce different results, the higher standard will apply. For instance a 5km race with 200 competitors would require 2 first aiders under section 1. It would also require 1 first aid post ('FA post') at the halfway point under section 2, plus a first aid post at the finish. As first aid posts require a minimum of 2 first aiders, the higher standard applying would be a total of 4 first aiders at 2 x FA posts.

1 First aid must always be provided at the finish of a race, in addition to on the course. The distance between FAP's should be reduced after 75% of the race distance.

2 The concession for smaller races, relaxing the requirement to provide an AED will only apply where a receiving accident & emergency hospital or NHS ambulance service trust station is available within 10 miles travelling distance of the event location, otherwise BLS plus AED will be required.

3 Sufficient mobile resources must be provided to ensure that at a minimum BLS plus AED (or BLS alone for races of under 150 runners) can be delivered to a casualty at any point of the course within 8 minutes of receipt of report of injury by the event team.

Additional provision will be required where more than 500 spectators are anticipated to attend.
MINIMUM RECOMMENDED MEDICAL SERVICES

MATRIX TABLE 2
RACE DISTANCE FROM 10 TO 25 KM (incl 10 km, 10 mile & half marathon)

The ‘minimum recommended cover’ for medical services below is based on a number of assumed ‘standard variable’ conditions for a race, and needs to be adjusted to take into account the additional (or lesser) resources required to respond to less favourable (or more favourable) conditions existing at any particular race.

<table>
<thead>
<tr>
<th>Competitor numbers (finishers)</th>
<th>Under 500 runners</th>
<th>500 - 5,000 runners</th>
<th>5,000 - 10,000 runners</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 First Aiders (per runner) – on course</td>
<td>2 per 250 (min 2)</td>
<td>5 per 1,000</td>
<td>5 per 1,000</td>
</tr>
<tr>
<td>2 Max distance between FA posts</td>
<td>50% of race distance</td>
<td>40%</td>
<td>30%</td>
</tr>
<tr>
<td>3 Mobile BLS plus AED</td>
<td>Either 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Mobile ALS</td>
<td>or 1</td>
<td>1</td>
<td>1 per 5,000</td>
</tr>
<tr>
<td>5 Ambulances</td>
<td>or 1</td>
<td>1 per 1,500 (min 1)</td>
<td>1 per 1,500</td>
</tr>
<tr>
<td>6 Paramedics (per runner)</td>
<td>1 per 5,000 (min 1)</td>
<td>1 per 5,000</td>
<td></td>
</tr>
<tr>
<td>7 Doctors (per runner)</td>
<td>1 per 2,500 (min 1)</td>
<td>1 per 2,500</td>
<td></td>
</tr>
<tr>
<td>8 Nurses (per runner)</td>
<td>1 per 5,000 (min 1)</td>
<td>1 per 5,000</td>
<td></td>
</tr>
<tr>
<td>9 First Aid or Medical Manager</td>
<td>Either</td>
<td>Either</td>
<td></td>
</tr>
<tr>
<td>10 Medical Director</td>
<td>or</td>
<td>or</td>
<td>Yes</td>
</tr>
<tr>
<td>11 Dedicated Medical Control</td>
<td></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>12 Sweeper bus</td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>13 Beds (per runner)</td>
<td>1 per 250 (min 1)</td>
<td>3 per 4,000 (min 3)</td>
<td>3 per 4,000</td>
</tr>
</tbody>
</table>

Notes:
Where 2 requirements produce different results, the higher standard will apply. For instance a 10km race of 200 competitors would require 2 first aiders under section 1. It would also require 1 first aid post (‘FA post’) at the halfway point under section 2, plus a first aid post at the finish. As first aid posts require a minimum of 2 first aiders, the higher standard applying would be a total of 4 first aiders at 2 x FA posts.

1 First aid must always be provided at the finish of a race, in addition to on the course. The distance between FAP’s should be reduced after 75% of the race distance.

2 Sufficient mobile resources must be provided to ensure that at a minimum BLS plus AED can be delivered to a casualty at any point of the course within 8 minutes of receipt of report of injury by the event team.

Additional provision will be required where more than 500 spectators are anticipated to attend.
MINIMUM RECOMMENDED MEDICAL SERVICES

MATRIX TABLE 3  
RACE DISTANCE Over 25 Km (incl 20 mile & marathon)

The ‘minimum recommended cover’ for medical services below is based on a number of assumed ‘standard variable’ conditions for a race, and needs to be adjusted to take into account the additional (or lesser) resources required to respond to less favourable (or more favourable) conditions existing at any particular race.

<table>
<thead>
<tr>
<th>Competitor numbers (finishers)</th>
<th>Under 300 runners</th>
<th>300 - 5,000 runners</th>
<th>5,000 - 10,000 runners</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 First Aiders (per runner) on course 1</td>
<td>2 per 250 (min 2)</td>
<td>6 per 1,000</td>
<td>6 per 1,000</td>
</tr>
<tr>
<td>2 Max distance between FA posts 1</td>
<td>40% of race distance</td>
<td>30%</td>
<td>20%</td>
</tr>
<tr>
<td>3 Mobile BLS plus AED 2</td>
<td>Either 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Mobile ALS 2</td>
<td>or 1</td>
<td>1 per 1,500 (min 1)</td>
<td>2 per 5,000</td>
</tr>
<tr>
<td>5 Ambulances 2</td>
<td>or 1</td>
<td>1 per 1,500 (min 1)</td>
<td>1 per 1,500</td>
</tr>
<tr>
<td>6 Paramedics (per runner)</td>
<td>1 per 5,000 (min 1)</td>
<td>1 per 5,000</td>
<td></td>
</tr>
<tr>
<td>7 Doctors (per runner)</td>
<td>1 per 2,500 (min 1)</td>
<td>1 per 2,500</td>
<td></td>
</tr>
<tr>
<td>8 Nurses (per runner)</td>
<td>1 per 5,000 (min 1)</td>
<td>1 per 5,000</td>
<td></td>
</tr>
<tr>
<td>9 First Aid or Medical Manager</td>
<td>Either</td>
<td>Either</td>
<td></td>
</tr>
<tr>
<td>10 Medical Director</td>
<td>or</td>
<td>or</td>
<td>Yes</td>
</tr>
<tr>
<td>11 Dedicated Medical Control</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>12 Sweeper bus</td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>13 Beds (per runner)</td>
<td>1 per 250 (min 1)</td>
<td>3 per 3,000 (min 3)</td>
<td>3 per 3,000</td>
</tr>
</tbody>
</table>

Notes:
Where 2 requirements produce different results, the higher standard will apply. For instance a 5km race of 200 competitors would require 2 first aiders under section 1. It would also require 2 first aid posts (‘FA post’) on the course under section 2, plus a first aid post at the finish. As first aid posts require a minimum of 2 first aiders, the higher standard applying would be a total of 6 first aiders at 3 FA posts.

1 First aid must always be provided at the finish of a race, in addition to on the course. The distance between FAP’s should be reduced after 75% of the race distance.

2 Sufficient mobile resources must be provided to ensure that at a minimum BLS plus AED can be delivered to a casualty at any point of the course within 8 minutes of receipt of report of injury by the event team.

Additional provision will be required where more than 500 spectators are anticipated to attend.
GUIDANCE NOTES ON THE USE OF THE MATRIX TABLES

Definition of terms

Competitor Numbers. The number of runners actually starting the race (as opposed to the number of registered entrants). There can be a non-attendance rate of up to 30% in larger races which sell out many months before race day – and a significantly higher attendance rate for smaller races, or where entries sell out close to race day. In planning appropriate medical provision a race organiser should allow for a higher attendance rate when race day weather conditions are favourable, or when entries are taken on race day

First Aider. A professional or volunteer trained to provide basic life support. For planned public events, such as road races, first aiders must be engaged by bodies (either voluntary or private sector) registered with the Care Quality Commission, qualified & insured to provide medical services at public events (a higher level of ‘public duties’ training). Occupational or workplace ‘first aid at work’ training is not sufficient for public events

Whilst volunteers with appropriate first aid training engaged by the event organiser can supplement the first aid provided by the main service provider (and such volunteers will be covered by UKA insurances for the provision of incidental first aid) unregistered volunteers can not be used as the principal provider

First Aid Post (‘FAP’). A designated and signposted location within a marquee or building where initial basic treatment can be provided to competitors, spectators, event volunteers & staff. Situated at intervals around the course route, within the finish area and often within the runners assembly area

Note : First aid posts typically comprise at least 2 trained first aiders

Maximum distance between first aid posts (‘FAP’s’). The maximum distance between first aid posts travelled by competitors whilst following the measured course route, as recommended by the appropriate matrix table. The distance between FAP’s should be reduced after 75% of the race distance to reflect the increased risk of exhaustion & collapse in the later stages of the race

Basic Life Support (‘BLS’), or First Aid. Initial care for injury or illness, including life-saving techniques without medical equipment (eg cardio-pulmonary resuscitation or ‘CPR’), until definitive medical treatment can be provided. May also be sufficient for minor injuries or self-limiting conditions. May be delivered by any member of the medical team from first aider to nurses, paramedics or doctors

Note : the concession for smaller races (less than 11km in distance with under 150 runners) relaxing the requirement to provide an AED (in addition to BLS within 8 minutes of receipt of report of injury) will only apply where a receiving accident & emergency hospital or NHS ambulance service trust station is available within 25 miles travelling distance of the event location, otherwise BLS plus AED will be required

‘BLS plus AED’. The delivery of a higher level of basic life support supplemented by an automated external defibrillator - a portable machine that can restart the heart in some cases of cardiac arrest by delivering an electric shock

At pre-planned events medical providers normally ensure that responders using AED’s are provided with additional training in the safe and effective use of this equipment, over and above the basic BLS skills
**Mobile ‘BLS plus AED’.** Mobile delivery can be by a motorbike or cycle responder (or on foot), ambulance car or ambulance

**Advanced Life Support (‘ALS’) - Resuscitation.** The ability to deliver advanced life support techniques including defibrillation, advanced airway management (including oxygen) and advanced drug administration

**Mobile ‘ALS’.** Mobile delivery can be by motorbike or cycle responder (or on foot), ambulance car or ambulance, typically provided by a registered healthcare professional such as a paramedic, doctor or nurse with the appropriate skills and competency

Ambulance. An emergency ‘blue light’ ambulance crewed and equipped to a standard specified by the local NHS ambulance service. Capable of passenger transport (single patient) & equipped to deal with a range of patient complaints including defibrillator, oxygen, pain relief & splints

Off-road ambulances can be used to deliver medical crew & equipment to an incident, and to repatriate patients over rough terrain or soft ground where access by conventional emergency ambulances is not possible

Paramedic ambulances provide a higher level of skills & medical interventions than a standard emergency ambulance

Rapid response vehicles (‘RRV’) can deliver a practitioner (doctor, paramedic, EMT or equivalent) to provide ALS interventions. But they should not be treated as an emergency ambulance, as RRV’s cannot transport patients

**Paramedic.** A registered paramedic with the UK Health Professions Council (‘HPC’) and appropriate equipment. Paramedics are typically qualified to administer a range of prescription drugs. Operating either from a vehicle (eg emergency ambulance, rapid response vehicle or motorcycle) or within a treatment facility

**Doctor.** A registered medical practitioner with the UK General Medical Council (‘GMC’) with relevant experience of pre-hospital and emergency care, and appropriate equipment. Doctors are qualified to administer a full range of prescription drugs & treatments. Operating either from a vehicle (eg ambulance or rapid response vehicle) or within a treatment facility

**Nurse.** A registered practitioner with relevant experience of pre-hospital and emergency care and appropriate equipment - Registered with the NMC (Nurses and Midwifery Council)

**First Aid or Medical Manager.** The nominated point of contact for the medical team. Probably a member of the first aid / medical team (rather than the race organiser), could also be acting as a clinician (ie most senior first aider or doctor working on the day)

**Medical Director.** The appointed manager & point of contact for the medical team, also responsible for setting the medical strategy & preparing the Medical Plan. Independent of the clinical team – ie overseeing care management, not treating patients. Would normally be a registered medical practitioner with relevant experience of pre-hospital and emergency care

**Dedicated Medical Control.** A facility (building, marquee or vehicle) providing accommodation for the operational medical command including co-ordination and communication between all medical resources (ambulances etc) and liaison with other services (police, ambulance service, event control, fire brigade). In larger races this is typically part of a multi-agency joint control room, often at a separate location from the clinical team
Sweeper bus. A minibus or car providing transport for exhausted runners but non-injured ('drop-outs') from the course to the finish. Typically with a first aider to attend to minor medical conditions.

Note. This is not a medical resource, such as an emergency ambulance or patient transfer vehicle ('PTS'). Neither should it be used to collect event equipment, signage etc from the course as the roads are re-opened.

Treatment beds. An examination couch, folded stretcher or bed space within a treatment facility used for the assessment and treatment of non life-threatening (primary care) casualties provided with appropriate nursing care and equipment.

Treatment beds are often supplemented by additional holding beds (or chairs) within a treatment facility used for observation of casualties during recovery.

Sole function. Medical staff, equipment etc can only perform a single designated function at any one point in time. For instance an ambulance cannot at the same time act as both a mobile and a static asset (eg both an ambulance and a static first aid post), neither can a first aider also at the same time act as a marshal. This does not prevent resources being re-deployed during the event - for instance from the start or the course to the finish after runners have passed.

Adjusting the ‘Standard’ Race Profile

‘Standard’ Race Profile
The ‘minimum cover’ recommended in the matrix tables is based on a number of assumed ‘standard variables’ for a race.

These presume a single lap course with unrestricted vehicle access for the first aid and medical team (both to treat and evacuate casualties), an established race with settled format unchanged from previous years, a mix of more experienced (club affiliated) and recreational (non-affiliated) runners, where entry numbers & attendance rates are known (no entries taken on race day), with no significant history of casualties at previous stagings of the event, mild weather conditions, easy access to the local NHS A&E hospital, options & choice of a number of different medical providers, and a limited number of spectators attending the event (under 500 spectators).

It also assumes that competitors will be over 16 years of age. Additional medical & management requirements will apply for under age competitors – child protection issues, paediatric medical staff, parental consent for treatment etc – see below.

Races with Less Favourable Profiles
The ‘minimum cover’ recommended in the matrix as appropriate for races held under ‘standard conditions’ needs to be adjusted to take into account the more cautious view and additional resources required to respond to ‘less favourable variables’ such as:

- Races held on point to point courses
- Where sections of the course are inaccessible to the medical team by vehicle
- New (or substantially changed) races
- Races with an unusual competitor profile (eg high proportion of elderly or disabled competitors, junior runs or family fun runs)
- Races predominantly comprised of less experienced recreational (ie over 80% non-affiliated) runners
- Where entry numbers and attendance rates are unknown (entries taken on race day)
- Races with significant past record of casualties
- Races in exposed or remote locations
- Where there are significant variations or extremes of weather conditions (both on race day and in the training weeks/months before the event)
- Where access to the local NHS Accident & Emergency hospital is poor – both in terms of maximum travel distance from the course and its capacity to receive event casualties
- Where there is a restricted choice of first aid / medical providers (first aiders, doctors, nurses, statutory ambulance service, voluntary and/or commercial providers), or restrictive local area protocols (for instance shortage of emergency ambulance drivers)
- Where more than 500 spectators can be anticipated to attend the event
- Where communications (mobile phone and/or radio) are unreliable

It is intended that this section will be expanded by the working group in future versions of the guidance to discuss how each of the varying factors might affect medical cover – for instance where sections of the course are inaccessible by normal vehicles, it may be necessary to provide off-road vehicles, or cycle first responders etc

Races with More Favourable Profiles
Equally the ‘minimum’ level of medical cover recommended in the matrix can be adjusted downwards to reflect ‘more favourable variables’ such as

- Multi-lap courses (where runners pass first aid stations more than once)
- Closed championship races or races predominantly comprised of more experienced athletes (ie over 80% of club affiliated athletes)
- Very few casualties at previous stagings of the event

Treatment Facilities
The location of treatment facilities should be determined by the first aid and medical team according to the configuration of the course, safe routes for ambulance access etc. Likewise the medical team should also determine the allocation or designation of treatment beds & holding beds within the treatment facility/facilities according to the anticipated clinical need

Junior Runs & Family Fun Runs
The ‘standard’ matrix level of first aid and medical cover is intended largely for adult competitors (ie over 16 years of age on race day). A higher duty of care and additional requirements must be taken into account in planning races and fun runs involving juniors and youths

For junior runs and family fun runs first aid and medical staff will need training & experience in paediatric medicine (in most cases this will already be covered by existing qualifications), arrangements must be made to obtain parental/carer consent prior to treatment & for parents/carers to attend children during treatment (attending adults are normally excluded from medical areas), and additional equipment & paediatric drugs may also be required for smaller children

Further management requirements (ie non-medical) will apply at junior age group competitions and family fun runs in terms of child protection procedures & lost child facilities, and ensuring attendance & supervision by attending parents or carers

Concession for Smaller Races
For smaller races of under 11km in distance and under 150 competitors the working group considered that the likelihood of cardiac arrest was sufficiently remote to allow a concession relaxing the requirement to provide an AED, in addition to basic life support within 8 minutes of receipt of report of injury
This concession will only apply where a receiving accident & emergency hospital or NHS ambulance service trust station is available within 10 miles travelling distance of the event location, otherwise BLS plus AED will be required.

**Guidance for Larger Races**
The matrix tables can only provide general guidance on levels of cover for races of over 10,000 competitors, although the same variable factors described above will need to be taken into account. Actual allocation of resources for larger races of over 10,000 competitors will be determined by the medical team according to the particular requirements & history of the event. In many larger races, such as the London Marathon and Great North Run the level of medical cover deployed will far exceed the levels suggested by the matrix tables.
ACKNOWLEDGEMENTS

This guidance has been drafted by a working party from the RunBritain Medical Advisory Group

Author: Andrew Taylor (Running High Events Ltd, Race Director Bath Half Marathon)

With special thanks to Dr Constantin Jabarin (Advanced Medical Events LLP, Medical Director Bath Half Marathon), Katherine Eaton (St John Ambulance London Prince of Wales Division), Dr Brian Robertson (Event Medicine Company Ltd, Medical Director Fleet Half Marathon), David Bedford (Race Director, Virgin London Marathon) & Nigel Gough (Nova International Ltd & Great Run).

Also contributions from Steve Hams (Deputy Chief Nursing Officer St John Ambulance), Dr Sanjay Sharma (Medical Director, Virgin London Marathon), Dr Chris Vallis (Medical Director, Bupa Great North Run) & Dr Steve Haig (Medical Director, Run Bristol).

UK Athletics
RunBritain Medical Advisory Group

Revised 21st January 2012
UKA responses to recommendations added page 4
Accreditation titles corrected
APPENDIX 1

GUIDE TO CONDUCTING A MEDICAL RISK ASSESSMENT

Medical risk assessments for endurance events are unusual in that there is an underlying risk of injury or illness inherent in participation in the event which cannot be entirely removed. In this respect it can be helpful to divide the assessment into 2 parts:

‘Controllable hazards’ are hazards which are foreseeable, predictable and likely, and which the event organiser can reduce or control, for instance by:

- providing information to competitors in advance of the event eg advising on effect of exertion on pre-existing diagnosed medical conditions (eg asthma or diabetes), fitness & training, sickness before race day, dehydration, over-drinking etc.
- planning for adverse weather by providing additional water and/or showers for hot weather, foil blankets & shelter for cold or wet days, race day information to runners
- ensuring age suitable distances – see UKA Rules of Competition
- removing vehicle traffic, tripping hazards or obstacles on the race route.

Controllable hazards can be analysed using the conventional ‘5 step’ risk assessment, with a view to reducing the risk wherever possible, and many of the hazards (eg obstacles on the course) may conveniently be dealt within the main risk assessment and general control measures for the event as a whole.

‘Uncontrollable (or inherent) hazards’ on the other hand are hazards which are also foreseeable (predictable or likely) but which the event organiser cannot reduce or control - such as injury or illness to a competitor due to exacerbation of an undiagnosed pre-existing medical condition (for instance underlying heart defect) brought on by exertion caused by participation in the event.

Uncontrollable hazards have to be acknowledged as being ‘inherent’ in the activity, and predicted or anticipated according to past experience and dealt with by appropriate response measures, rather than being reduced by control measures. These require a different approach in terms of analysis.

The difference of approach is illustrated below:

<table>
<thead>
<tr>
<th>‘Controllable hazards’</th>
<th>‘Uncontrollable hazards’</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazards which can be reduced or controlled by actions of the event team eg conflict with traffic, tripping hazards, exacerbation of known pre-existing medical conditions, weather, unfitness of competitors, age unsuitable distances, foreseeable hazards (under drinking, over drinking)</td>
<td>Hazards which are inherent in the event and cannot be reduced or controlled by actions of the event team eg exacerbation of an undiagnosed pre-existing medical condition</td>
</tr>
</tbody>
</table>

Seek to reduce risk | Acknowledgement of risk

Control Measures
eg removal (signing or mitigating) of traffic, tripping hazards, medical advice to runners, adverse weather planning, age appropriate distances | Residual risk

Appropriate Medical Response
Assessment of Clinical Need

The race organiser and their first aid / medical team should assess the likelihood of the most serious and common (ie likely) predictable medical injury, for instance the background statistical risk of cuts & abrasions caused by competitors tripping at road races. It is hoped that more reliable data on incident data will become available in post-race returns from future licenced races.

This analysis needs to be adjusted according to the past accident record etc of your particular event - the actual number of each type of injury reported at your event in past years.
APPENDIX 2

MODEL MEDICAL RISK ASSESSMENT

‘Five steps’ to risk assessment

Step 1  Identify the hazards
Step 2  Decide who might be harmed and how/where
Step 3  Evaluate the risks and decide on precautions
Step 4  Record your findings and implement them
Step 5  Review your assessment and update if necessary

Caution : This assessment shows the kind of approach a typical race might take where conditions are favourable (see notes). It can be used as a guide to think through some of the hazards in your race and the steps you need to take to control the risks. This is not a 'one-size-fits-all' risk assessment that you can just put your name on and adopt wholesale without any thought. This would not satisfy the law - and would not be effective in protecting people. Every race is different - you need to think through the hazards and controls required in your race for yourself

<table>
<thead>
<tr>
<th>RISK ASSESSMENT</th>
<th>SAFETY PLAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. What are the hazards</td>
<td>4. How will you put the assessment into action</td>
</tr>
<tr>
<td>2. Who might be harmed &amp; how</td>
<td>Remember to prioritise those hazards that are high-risk and have serious consequences</td>
</tr>
<tr>
<td>3a. What are you already doing (ie pre-event controls)</td>
<td>3b. What further action is required (event day controls)</td>
</tr>
<tr>
<td>4a. Action by Who</td>
<td>4b. Action by when</td>
</tr>
<tr>
<td>4c. When completed</td>
<td></td>
</tr>
</tbody>
</table>

GENERALLY

Consider hazards by inspecting the venue and course, checking post-race Identify competitors, spectators, other road List what is already in place to reduce the likelihood of harm or make any harm less serious You need to make sure that you have reduced risks 'so far as is reasonably
<table>
<thead>
<tr>
<th>de-briefs etc</th>
<th>users, volunteers, officials, contractors. State how harm can be caused</th>
<th>practicable. An easy way of doing this is to compare what you are already doing with good practice. If there is a difference, list what needs to be done.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Obstacles &amp; hazards on course</strong></td>
<td>Competitors &amp; volunteers could trip or fall</td>
<td>Course route to be arranged to minimise obstacles &amp; hazards. Remaining hazards to be identified on safety plan</td>
</tr>
<tr>
<td></td>
<td>Sector marshals to check protection is provided to remaining hazards</td>
<td>Sector marshals</td>
</tr>
<tr>
<td><strong>Pre-existing medical conditions (cardiac, asthma, diabetes)</strong></td>
<td>Competitors &amp; volunteers</td>
<td>Pre-event instructions to entrants (at time of entry and/or race packs) to visit <a href="http://www.runnersmedicalresource.com">www.runnersmedicalresource.com</a> website. Volunteers briefings</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Unfit competitors, under or over drinking water</strong></td>
<td>See above</td>
<td>See above</td>
</tr>
<tr>
<td><strong>Unsuitable age specific distances</strong></td>
<td>Competitors</td>
<td>Apply age restrictions in UKA Rules of Competition &amp; Licence Standards</td>
</tr>
<tr>
<td><strong>Adverse weather – unseasonably hot/humid</strong></td>
<td>Competitors, volunteers &amp; spectators</td>
<td>Chose sensible date &amp; start time for event. Monitor weather reports. Implement adverse weather plan. Consider changing start time, race distance or cancelling race</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Adverse weather – unseasonably cold/wet/windy</strong></td>
<td>As above</td>
<td>As above</td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Layout &amp; management of finish area to provide easy access for medical team to identify, treat &amp; evacuate casualties</td>
<td>Experienced marshals to be provided in finish area. Co-ordination of activities to be agreed in advance with medical team</td>
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<td>---</td>
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<td></td>
</tr>
<tr>
<td>Use public address system (if provided) to communicate race day instructions to competitors</td>
<td>Pre-race briefing to commentator on race day public announcements. Ensure sound levels do not interfere with marshals &amp; medical team in finish area. Discourage sprint finishes</td>
<td></td>
</tr>
<tr>
<td>Monitor, de-brief &amp; review</td>
<td>Ensure arrangements to monitor delivery of medical services during the event, and for post event de-briefing &amp; review</td>
<td></td>
</tr>
</tbody>
</table>

**MEDICAL**

<table>
<thead>
<tr>
<th>Assessment of appropriate medical cover</th>
<th>Competitors, spectators &amp; volunteers</th>
<th>Provide first aid and medical services in accordance with UKA Good Practice Guide to Medical Services</th>
<th>See Medical Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>If event arrangements and profile are</td>
<td>Past casualty rates can provide a good indicator of likely demand &amp; minimum cover recommend in the</td>
<td></td>
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</tr>
</tbody>
</table>

UKA Good Practice Guide to Road Race Medical Services

Page 22
<table>
<thead>
<tr>
<th>unchanged from previous years</th>
<th>Guide will be appropriate</th>
</tr>
</thead>
<tbody>
<tr>
<td>If event arrangements and profile are significantly changed from previous years</td>
<td>Past casualty rates cannot provide a good indicator of likely demand &amp; additional cover over and above the minimum standard recommended in the Guide should be provided</td>
</tr>
<tr>
<td>Anticipated competitor numbers</td>
<td>Medical planning should always be based on the maximum number of competitors likely to attend</td>
</tr>
</tbody>
</table>

| Use of event volunteers with ‘workplace’ first aid training. | Only use qualified first aiders & medical staff provided by a Care Quality Commission registered body (such as the St John Ambulance, British Red Cross, professional or commercial providers) trained & insured to ‘public duties’ standard. |

| Confirm capability of local A&E hospital to receive casualties from event. | Make enquiries through local authority Safety Advisory Group, based on first aid/ALS & treatment facilities provided at event plus casualty rates from previous stagings of the race. |

<p>| Confirm ability of local NHS ambulance service trust to attend &amp; | As above |</p>
<table>
<thead>
<tr>
<th>Ensure capability to deliver BLS + AED (minimum) response within 8 minutes of receipt of report of injury by the event or medical team.</th>
<th>Ensure efficient reporting procedures are in place and resources to deliver mobile response within target time specified to all points on the course &amp; the race finish.</th>
<th>Ensure sufficient marshals are deployed to provide prompt identification of casualties at all points on the course. All</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check reliability of mobile phone network coverage &amp; radio reception on course &amp; start/finish.</td>
<td>Supplement with RAYNET volunteer radio communications or commercial provider as required.</td>
<td></td>
</tr>
<tr>
<td>Reporting procedure for race day. Contact phone numbers exchanged in event of problems.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Confirm procedures in place to ensure first aid in place before race start.</td>
<td>Race will be cancelled if first aid team do not attend.</td>
<td></td>
</tr>
<tr>
<td>Confirm arrangements in place to attend &amp; evacuate casualties from section of the course inaccessible to vehicles.</td>
<td>Obtain permission from private land owners where appropriate. Provide off-road ambulances if required.</td>
<td></td>
</tr>
</tbody>
</table>
This template is adapted from the advice of the Health & Safety Executive as published in their guidance notes 'Five Steps to Risk Assessment INDG 163 Rev 2. A digital copy can be found on their website at: [www.hse.gov.uk/pubns/indg163.pdf](http://www.hse.gov.uk/pubns/indg163.pdf)
APPENDIX 3

MEDICAL RISK ASSESSMENT - WORKED EXAMPLE 1

‘SUMMERVALE 10km ROAD RACE’
This is a fictional race, for the purpose of illustrating the guidance note. All similarities to actual events or persons are entirely accidental

1. **Background**

The ‘Summervale 10km Road Race’ has been organised under UKA Licence by volunteers from Summervale Athletic Club on the second Sunday in May for the last 25 years, the last 15 under the current race director. Attracting around 125 entries (100 finishers) each year, with a maximum entries limit of 200. 90% of entrants are typically registered as local athletic club members. Entries are by postal entry form circulated to local clubs & on the club website. Entries are also taken on race day. It is staged over a one-lap flat course, starting & finishing at the same location in the car park of the Summervale Town Primary School car park, over undulating semi-rural lanes with low traffic levels, around a small market town

The race has a reputation as a fast flat course, popular with more experienced & competitive local club runners, many of whom are known personally by the race secretary having returned for a number of years. The race is staged on open carriageways (no road closures), with marshal controlled junctions & crossings at maximum of ½ to 1 km intervals around the course. The course is entirely on tarmac public roads

Cupped drinking water is provided at 5 km and at the finish. No sponge stations are provided. Changing, toilet & hot drinks/sandwiches are available in the school hall

Communication between marshals is by mobile phone, with reliable network coverage over the entire course route

Medical services for the last 15 years have been provided by the local British Red Cross branch, assisted by 2 event volunteers with ‘workplace’ first aid training. The local accident & emergency department is 3 miles by road. The local NHS ambulance service station is 5 miles away. In the past 5 years there have not been any hospital transfers or resuscitations, but there have been 2 collapses amongst slower runners (due to exhaustion) on the gentle incline in last ½ km of the race on one warm race day, 1 collapse by the race leader in the finishing straight (also due to exhaustion), 3 slower runners unable to finish (1 x twisted ankle & abrasions, 2 x exhaustion) and 2-4 runners each year seeking post finish treatment for blisters

The race will be hand timed using a single finishing funnel with a clear vehicle access lane provided for the medical team along the entire length of the finish, allowing exit at both ends
Volunteer marshals etc are from the organising club plus their family & friends. The licence officer has also been in post for 10 years & has twice run the race himself
2. **Recommended Provision - Matrix Table 1**

Based on 'standard criteria' for:

- Race distance of under 11km (5km race)
- Race of under 1,000 runners (125 – 200 anticipated – see notes)

Recommended minimum provision as set out in **Matrix Table 1**:

- 2 first aiders (1 per 250 runners min 2) – plus finish
- First aid posts at maximum intervals of 5 km (50% distance between FA posts)
- Either 1 BLS, or 1 BLS plus AED, or 1 mobile ALS, or 1 ambulance
- No paramedic, doctor, nurse, or dedicated medical control required
- Recommended – Either First Aid or Medical Manager or Medical Director
- Recommended - 1 bed (1 per 250 runners min 1)

**Adjustments**

Entries taken on the day, so allow for a maximum of 200 competitors attending. Re-check Matrix Table 1 based on 200 competitors – BLS alone not sufficient (concession for small races under 105 competitors no longer applies). Higher requirement for BLS plus AED (or mobile ALS or ambulance) applies.

It has been suggested the course route could be changed to two-laps (vs Matrix based on 1-lap). If so provision for on course first aid could be reduced accordingly. Provision at finish unchanged.

Race has been staged in its current form & by current organisers for many years. Low casualty rates at previous years

Postal entries, personal knowledge of many runners by race secretary & local marketing through athletic clubs ensures high proportion of more experienced club runners

Lower injury risk from predominantly (more experienced) club athletes. A higher proportion of older ‘veteran’ male runners reduces the risk of cases of sudden cardiac failure (often associated with younger competitors) but increases the risk of cases of cardio-vascular disease (often associated with older men)
**Medical Plan**

- 1 x ambulance initially located at the 5 km drink station (half way point), returning to the finish after the last runner has passed. This ambulance to provide a mobile first aid & ALS facility – but not to transport non-critical casualties. Ambulance to be provided with space blankets, bottled water & energy drink, also fold-up stretchers in case of additional casualties.

- BLS plus AED response. In case of a high number of entries of the day BRC recommended that provision be made for a maximum of 200 entries using 1 x cycle first responder (trained to deliver BLS plus AED) riding at the rear of the race. Contactable by mobile phone & BRC radio.

3. **Summervale 10km - Medical Risk Assessment**

<table>
<thead>
<tr>
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</thead>
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<td>4b. Action by when</td>
</tr>
<tr>
<td>4c. When completed</td>
<td></td>
</tr>
</tbody>
</table>

**GENERALLY**

SEE NOTES ABOVE

**MEDICAL**

Assessment of appropriate medical cover
- Competitors, spectators & volunteers
  - Provide first aid and medical services in accordance with UKA Good Practice Guide to Medical Services
  - See Medical Plan

Event arrangements and profile
- Low casualty rate experienced in previous years is a good indicator
| Unchanged from previous years. | Of likely demand & minimum cover recommend in the Guide will be appropriate |  |
|--------------------------------|--------------------------------------------------------------------------------|  |
| **Anticipated competitor numbers** | If competitor numbers are restricted to 125, the requirement to provide AED plus BLS will be removed (concession for small races applies) |  |
| **In past years event volunteers with ‘workplace’ first aid training have been used as first aiders, to reduce costs.** | Only use qualified first aiders & medical staff provided by British Red Cross (CQC registered body) | Race Director |
| **Check ability of local A&E hospital to receive casualties from event.** | Hospital notified through district council Safety Advisory Group & confirmed capable to receive any serious casualties | Race Director |
| **Check ability of local NHS ambulance service trust to attend & evacuate critical casualties** | Ambulance service trust notified formally through SAG & confirmed capable of attending & evacuate casualties on 999 call if required | Race Director |

Note BRC first aid manager (himself a local ambulance service paramedic) has made direct contact with local ambulance station before race day to co-ordinate access points to evacuate casualties – ambulance service decided to locate their duty ambulance car to a point nearer to the event.
<p>| Ensure capability to deliver BLS plus AED (minimum) response within 8 minutes of receipt of report of injury by the event or medical team. | See competitor numbers above for requirement for AED. See below for reporting procedures | Cycle first responder trained to deliver BLS plus AED will travel behind the rear of the field, contactable by mobile phone &amp; BRC radio. Briefed to look out for signals from marshals |  |
| --- | --- | --- |  |
| Procedures to ensure first aid in place before race start. | Contact phone numbers exchanged in event of problems. | BRC first aid manager to report to race director on arrival 30 mins before race start. Race will be cancelled if first aid team do not attend | Race Director |
| Ensure effective reporting of casualties by marshals etc. |  | Marshals will be deployed at approximately ½ km intervals around the course. All volunteers to be briefed on reporting of casualties to the first aid manager |  |
| Layout &amp; management of finish area to provide easy access for medical team to identify, treat &amp; evacuate casualties |  | Clear access lane to be provided for medical team along length of finish. Experienced marshals to be provided in finish area. Co-ordination |  |</p>
<table>
<thead>
<tr>
<th>Activity</th>
<th>Description</th>
<th>Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use public address system to communicate race day instructions to competitors</td>
<td>Pre-start briefing with race day final safety instructions to be provided by start director to assembled competitors using hand held megaphone. Sprint finishes will be discouraged.</td>
<td></td>
</tr>
<tr>
<td>Transport of exhausted runners.</td>
<td>Private vehicle insurance to be extended to cover transport of competitors. Space blankets, hot &amp; cold blankets &amp; mobile phone provided.</td>
<td>Race director’s wife to drive her own car – 5-seater people carrier. Note adult competitors only, so no child protection issues.</td>
</tr>
<tr>
<td>Monitor</td>
<td>BRC first aid manager to report any serious injuries or hospital transfers to the race director as soon as possible on race day, followed by formal written summary of casualties – based on UKA post race return form</td>
<td>Race Director</td>
</tr>
</tbody>
</table>
### De-brief & review

Race director to arrange post event medical team de-brief meeting & review

### 5. Review Date

Departures from UKA recommended medical standards

None proposed
APPENDIX 4

MEDICAL RISK ASSESSMENT - WORKED EXAMPLE 2

‘BRIDGETOWN HALF MARATHON & FUN RUN’
This is a fictional race, for the purpose of illustrating the guidance note. All similarities to actual events are entirely accidental

1. Background

Background

The ‘Bridgetown Half Marathon & Fun Run’ has been organised under UKA Licence by volunteers from Bridgetown Athletic Club in mid-October for the last 5 years. A new volunteer from the club’s committee has taken over as race director for next year’s race (with no previous experience of race management) with the ambition of doubling entries in the half marathon (from 750 to 1,500 entries - 1,250 anticipated finishers) plus 500 entries in the new 2km fun run, through an energetic marketing campaign supported by his own stationery supply business. The race date is being brought forward from mid-October to mid-August to attract more families during the summer holidays. It is anticipated that the proportion of experienced club athletes in the half marathon will drop significantly from previous years, to around 30% as the additional entries will come largely from unattached recreational and novice runners

For the first time entries will use the new on-line entry system through the RunBritain website, with entries also being taken on the day for both the half marathon and fun run. In previous years entries have been by postal entry, with no entries on the day

The start/finish area will be relocated onto a grassed area next to the new main sponsor’s business premises and a number of changes are also proposed to both the half marathon & fun run routes to accommodate the additional runners

The half marathon has a reputation as a tough course, typically attracting more experienced & competitive local club runners. The half marathon is staged over a 1-lap undulating course, starting & finishing at the same location on a feeder road next to the sponsor’s car park over narrow country lanes with low traffic levels on the outskirts of Bridgetown. The half marathon route is mainly on tarmac public roads, but one ½ mile section of bridle path (which is at a psychologically difficult ‘turn around’ point) will be inaccessible to vehicles

The new fun run will be staged over an out-and-back course on tarmac and gravel footpaths around the sponsor’s business park. This will be the first time the course has been used for a running event

The half marathon route is subject to a formal road closure, operated by the district council’s highways contractors on major junctions & volunteer marshals at minor road junctions. Volunteer marshals are deployed at maximum intervals of ½ km around the course
Cupped drinking water is provided at 4 drink stations, at approximately 5 km intervals around the course, and at the finish. No sponge stations are provided. Temporary changing & toilets will be provided in the assembly area, plus drinks & refreshments for sale at concession stands.

Communication between marshals is by mobile phone, although network coverage is unreliable at 2 designated points on the course. Radio communication between St John Ambulance first aiders has also been hampered in past years by unreliable reception.

First aid services for the last 5 years have been provided by the local St John Ambulance branch, assisted by event volunteers with ‘workplace’ first aid training. Following the recent closure of the local accident & emergency hospital, the nearest receiving hospital is now some 45 miles away. Likewise the nearest NHS ambulance station has been relocated to the new regional centre some 35 miles away and due to recruitment problems & planned industrial action limited ambulance staffing is available for public events.

Past casualty figures from the event have been low - 1 casualty transported from the course to hospital in the last 5 years (aggravation of previously diagnosed heart condition) plus treatment at the finish for minor blisters & grazes. But casualties are anticipated to rise due to the planned increases in entry numbers, the increased proportion of less experienced competitors and the hotter mid-summer weather.

The race will be chip timed using an open finish (ie no funnels) with a clear vehicle access lane provided for the medical team along the entire length of the finish, allowing exit at both ends. Casualties at the finish area will need to be evacuated over grass through the public assembly area.

In past years the race has always started at 10.00am, but in order to allow access to a local church (otherwise cut off by the extended road closures required to accommodate the increased entry numbers) the start time has been postponed until 12.00noon to allow the congregation time to leave after their church service.

Many of the experienced club marshals from previous years have declined to assist at this year’s event, unhappy with the proposed changes, so the new race director intends to recruit fresh volunteers from amongst his own friends & family, supplemented by volunteers from local charities and staff from the sponsor’s business.

The newly formed district council’s Safety Advisory Group have not been particularly helpful in liaising with the county council’s highways department, or the local ambulance service, or police force.
2. Recommended Matrix Provision – Table 2

Half Marathon

Based on ‘standard criteria’ for:

- Race distance of from 10 to 25km (half marathon = 21 km)
- Race of 500 to 5,000 runners (1,500 anticipated entries)

Recommended minimum provision as set out in Matrix Table 2:

- 8 first aiders (5 per 1,000) – plus finish
- First aid posts at maximum intervals of 8.4 km (40% distance between FA posts)
- 1 mobile ALS
- 1 ambulance
- 1 doctor
- 1 nurse
- Either First Aid or Medical Manager or Medical Director
- Dedicated medical control required
- Sweeper bus not required
- 3 beds

Adjustments

The race has a relatively short history with significant changes year on year as entry numbers have steadily increased, plus a new and inexperienced race director and management committee. A more cautious view should be taken.

Aggressive marketing & new on-line entry system will increase the proportion of inexperienced non-club runners, increasing the risk of aggravation of pre-existing medical conditions due to over-exertion & lack of preparation. A higher proportion of younger female runners reduces the risk of cases of cardio-vascular disease (often associated with older men) but increases the risk of cases of sudden cardiac failure (often associated with younger competitors).

Medical Plan

- Primary mobile ALS will be provided by 1 x paramedic ambulance car initially located at the 10km first aid post (at the psychologically challenging turnaround point), then relocating to the finish after the main field has passed.
• A further mobile BLS plus AED will be provided by a SJA cycle first responder riding at the rear of the race, contactable by radio

• 1 x SJA ambulance will be located at the 14km first aid post

• 1 further SJA landrover ambulance will be located on the inaccessible bridleway section at 5km on the half marathon route, then relocating to the grassed assembly area after the main field has passed

• Primary treatment facility. A marquee will be provided by the race organiser alongside the finish area to serve as a treatment facility & base for the Medical Manager. This will be accessible to ambulances. This will be staffed by 1 x doctor, 1 x nurse & 4 x first aiders, and provided with an AED, 4 x fold-up stretchers (as treatment beds), plus chairs for observation, space blankets, hot & cold drinks, power & lighting. Plus ice if required – see hot weather plan

• Secondary treatment facility. A smaller marquee will be provided by the race organiser in the assembly area for first aid for more minor ‘walking wounded’ cases. This will be accessible to ambulances. It will be provided 2 x first aiders. These first aiders will provide pre-race first aid & relocate to the fun run during the half marathon

• Dedicated medical control to be provided in sponsor’s office adjacent to race start/finish, providing communication between first aid posts, finish treatment areas, mobile units and event organiser under supervision of the Medical Manager, whilst keeping the clinicians clear of logistical responsibilities

• 4 x static first aid posts (2 x first aiders in each post) will be provided at 5km, 10km (at the psychologically challenging turn around point), 14km and at 18km. The FAP in the assembly area will be temporarily re-located to the fun run turn around point during the fun run

**Fun Run**

All medical services provided for the half marathon will also be available for the fun run, in case of emergency

• The FAP in the assembly area will be temporarily re-located to the fun run turn around point during the fun run

• A sweeper car (with CRB registered volunteers) will be provided to collect exhausted fun run participants
3. Bridgetown Half Marathon & Fun Run - Medical Risk Assessment

<table>
<thead>
<tr>
<th>RISK ASSESSMENT</th>
<th>SAFETY PLAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. What are the hazards</td>
<td>4. How will you put the assessment into action</td>
</tr>
<tr>
<td>2. Who might be harmed &amp; how</td>
<td>Remember to prioritise those hazards that are high-risk and have serious consequences</td>
</tr>
<tr>
<td>3a. What are you already doing (ie pre-event controls)</td>
<td>3b. What further action is required (event day controls)</td>
</tr>
<tr>
<td>4a. Action by Who</td>
<td>4b. Action by when</td>
</tr>
<tr>
<td>4c. When completed</td>
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</tr>
</tbody>
</table>

**GENERALLY**
SEE NOTES ABOVE

**MEDICAL**

<table>
<thead>
<tr>
<th>Assessment of appropriate medical cover</th>
<th>Competitors, spectators &amp; volunteers</th>
<th>Provide first aid and medical services in accordance with UKA Good Practice Guide to Medical Services</th>
<th>See Medical Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event arrangements and profile are significantly changed from previous years</td>
<td>Past casualty rates cannot provide a good indicator of likely demand &amp; additional cover over and above the minimum standard recommended in the Guide will be provided</td>
<td></td>
<td></td>
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<tr>
<td>Medical planning must be based on the maximum number of competitors likely to attend</td>
<td>Aggressive marketing of entries &amp; new on-line entry system are likely to increase entries. Race day entries are likely also to increase attendance numbers. Allow for 1,500 runners in the half marathon &amp; 500 in the fun run</td>
<td></td>
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<tr>
<td>In past years event volunteers with ‘workplace’ first aid training have been used as first aiders, to reduce costs.</td>
<td>Only use qualified first aiders &amp; medical staff provided by St John Ambulance &amp; commercial paramedic provider (both confirmed as CQC registered bodies)</td>
<td>Additional beds to be provided in primary treatment facility at finish, plus additional ambulances provided to compensate for long travel distance to hospital</td>
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<tr>
<td>Check ability of local A&amp;E hospital to receive casualties from event.</td>
<td>Hospital notified through district council Safety Advisory Group &amp; confirmed capable to receive any serious casualties</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check ability of local NHS ambulance service trust to attend &amp; evacuate critical casualties</td>
<td>Ambulance service trust unable to provide services to planned public events. Ambulance cover to be provided by St John ambulance and commercial paramedic services provider</td>
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<tr>
<td>Ensure capability to deliver BLS plus AED (minimum) response within 8 minutes of receipt of report of injury by the event or medical team.</td>
<td>Paramedic services to be provided by commercial provider at key locations around the course and at the finish. See below for reporting procedures</td>
<td>SJA cycle first responder trained to deliver BLS plus AED will travel behind the rear of the field, contactable by SJA radio &amp; briefed to look out for signals from marshals</td>
<td></td>
</tr>
<tr>
<td>Unreliable mobile phone network coverage at 2 – 3 locations on course.</td>
<td>Commercial radio provider engaged (including repeater stations) to ensure coverage over entire course, with separate</td>
<td>Radio system to be tested on Friday before event, before handover</td>
<td></td>
</tr>
<tr>
<td>Plus unreliable SJA radio reception.</td>
<td>(Monitored) channels for marshals and medical team. Supplemented by volunteers from RAYNET at 6 key locations on the course</td>
<td>Procedures to ensure first aid in place before race start.</td>
<td>Contact phone numbers exchanged in event of problems.</td>
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<td>-------------------------------------------------</td>
</tr>
<tr>
<td>1 mile section of bridleway on half marathon route inaccessible to normal vehicles</td>
<td>Permission obtained from landowner for use of private lane &amp; bridleway &amp; gate to be unlocked during half marathon. Course director will strim hedge along access route prior to race</td>
<td>1 mile section of bridleway on half marathon route inaccessible to normal vehicles</td>
<td>Permission obtained from landowner for use of gravel path &amp; gate to be unlocked during Fun Run</td>
</tr>
<tr>
<td>Gravel path on fun run route is accessible to normal ambulance vehicles under caution</td>
<td>Permission obtained from landowner for use of gravel path &amp; gate to be unlocked during Fun Run</td>
<td>Gravel path on fun run route is accessible to normal ambulance vehicles under caution</td>
<td>Permission obtained from landowner for use of gravel path &amp; gate to be unlocked during Fun Run</td>
</tr>
<tr>
<td>Ensure effective reporting of casualties by marshals etc.</td>
<td>Marshals will be deployed at approximately ½ km intervals around the course. All volunteers to be briefed on reporting of casualties to their radio control.</td>
<td>Ensure effective reporting of casualties by marshals etc.</td>
<td>Marshals will be deployed at approximately ½ km intervals around the course. All volunteers to be briefed on reporting of casualties to their radio control.</td>
</tr>
<tr>
<td>Marshals’ channel to be monitored by SJS control</td>
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<tr>
<td>Bringing forward the race date to mid-August &amp; postponing the start to 12.00 noon will increase likelihood of runners being effected by hot weather at midday in midsummer</td>
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<tr>
<td>“The final decision on the start time will be made by the event 1 week before race day, based on weather forecast. Start will be brought forward to 9.30am if hot weather is forecast (particularly after period of colder weather). Decision to be communicated to entrants, volunteers, medical providers &amp; the church. Monitor weather conditions in the week before the race.</td>
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<tr>
<td>If hot weather is predicted - provide an additional sponge station on course (before the last steep hill) &amp; advise runners (before the start &amp; at drink stations) to take care &amp; slow down</td>
<td></td>
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<tr>
<td>Layout &amp; management of finish area to provide easy access for medical team to identify, treat &amp; evacuate casualties</td>
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<tr>
<td>“A segregated (fenced &amp; marshalled) ambulance lane will be provided through the grassed public assembly area and along the entire length of the finish</td>
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<tr>
<td>SJA landrover ambulance to be deployed on grassed area</td>
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<tr>
<td>Shortage of experienced marshals</td>
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<tr>
<td>“To be addressed by recruitment from other road races &amp; endurance officials (through licence officer)</td>
<td></td>
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<tr>
<td>Co-ordination of activities in the finish area to be agreed in advance with medical team</td>
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<tr>
<td>Use public address system to communicate race day instructions to competitors</td>
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<tr>
<td>“See adverse weather provisions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-start briefing with race day final safety instructions to be provided by start director to assembled competitors using hand held megaphone. Sprint</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Procedures to ensure first aid in place before race start.</td>
<td>“”</td>
<td>Contact phone numbers exchanged in event of problems.</td>
<td>SJA Medical Manager to report to race director via medical control on arrival 60 mins before race start. Race will be cancelled if first aid team do not attend</td>
</tr>
<tr>
<td>----------------------------------------------------------</td>
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<td>------------------------------------------------------</td>
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<tr>
<td>Transport of exhausted runners</td>
<td></td>
<td>SJA patient transfer vehicle to be drive behind last half marathon runner to collect exhausted runners off the course back to the finish area.</td>
<td>Space blankets, drinks &amp; radio to be provided</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sweeper car to be provided by race organiser, with 2 CRB checked volunteers to collect exhausted fun run participants</td>
<td>Space blankets, drinks &amp; radio to be provided</td>
</tr>
<tr>
<td>Injury reporting</td>
<td></td>
<td>SJA medical control to report any serious injuries or hospital transfers to the race director as soon as possible on race day</td>
<td>Commentator &amp; information desk briefed to direct relatives</td>
</tr>
<tr>
<td>De-brief &amp; review</td>
<td></td>
<td>SJA to provide written summary of casualties – based on UKA post race return form</td>
<td>Race director to arrange post event medical team de-brief meeting &amp; review</td>
</tr>
</tbody>
</table>

**5. Review Date**

Departures from UKA recommended medical standards

None proposed
APPENDIX 5

GLOSSARY

This glossary is intended to explain and clarify the meaning of terms used in medical services to assist better-informed discussions between the race organiser, their medical provider and the licencing panel (officer).

Other Medical Resources

Accident & Emergency Hospital. The capacity of local NHS Accident & Emergency hospitals to receive patients from events will vary significantly from area to area across the UK, and according to demand from other patient workload or other events. It is common for ambulances carrying less seriously injured patients to be required to wait (with patients on board) outside hospital for significant periods of time during busy times until a bed becomes available. This needs to be taken into account in considering appropriate ambulance provision and treatment protocols for a race.

Care Quality Commission (‘CQC’). The regulatory body for all registered health and adult social care service providers, effective from April 2010. Race organisers engaging providers to deliver first aid and/or medical services must ensure that the chosen provider is registered with the CQC.

Clinical Waste. Containment, storage & disposal of clinical waste, needles, ‘sharps’ and other medical equipment & supplies contaminated by bodily fluids etc should only be handled by the medical services provider or by a licensed waste contractor. Such waste should be clearly labelled and stored safely away from contact with the public or event staff/volunteers.

Cycle/Motorcycle First Responder. A bicycle or motorcycle equipped to deliver a first aider or practitioner (paramedic, EMT or equivalent) to provide an initial response (possibly with a defibrillator and oxygen).

Family Liaison. A member of the event team specifically designated to liaise with the families of critically injured runners. Duties may include providing families with contact information for key event staff (eg race director & medical director) and local statutory authorities (eg receiving hospital, coroner’s office), arranging transport of family members to the receiving hospital, collection of injured runner’s baggage, removal of their details from the race results & race photographs, issuing press statements etc. In larger races a waiting room may be provided for relatives, adjoining the treatment facilities, but separate from the public area.

Identification of clinical team members. Instances of persons impersonating doctors & medical staff are not unknown. Qualification & identification checks of staff & volunteers will already have been carried out by medical providers registered with the Care Quality Commission (such as your NHS ambulance service, St John Ambulance, British Red Cross or independent private medical provider) prior to appointment, but checks (including passport or driving licence photo ID) should be considered when employing individuals outside such bodies. Registrations of clinical team members can be checked through relevant websites (the General Medical Council www.gmc-uk.org for doctors, the Health Professions Council www.hpc-uk.org for paramedics and the Nursing and Midwifery Council www.nmc-uk.org for nurses).

Medical Practice Insurance. Only CQC registered organisations with medical practice insurance should be used as medical service providers at public events.
UKA insurance, obtained following the issuing of the road race licence, will cover incidental first aid provided by volunteers engaged by the event supplemental to the services by the appointed medical provider, but will not cover either medical treatment or first aid provided by other bodies

Other emergency health care practitioners. There are a number of other health care practitioners qualified to work in emergency care including Emergency Care Practitioners (‘ECP’) & Emergency Medical Technician (‘EMT’) Emergency Care Assistants (‘ECA’)

Patient transport vehicle (PTS). A specialist vehicle providing transport of a number of non-critically injured patients (either to the finish or to hospital) staffed by trained first aiders. Capable of transporting patients lying down, seated and/or in wheelchairs

Resuscitation. In terms of event medicine - the term commonly refers to the ‘ALS’ life-saving response to cardiac and/or respiratory arrest, intended to stabilise a casualty prior to transportation to hospital

Note: the term ‘resuscitation’ has a more defined meaning in clinical circles used to describe a higher management of critical care cases, including intubation and other interventions rarely provided at road races

Treatment Facility. A facility (building or marquee) used for treatment and assessment of casualties, normally provided with privacy, shelter, lighting, power & heating. The allocation of resuscitation bays, treatment beds and observation beds (or chairs) should be determined by the medical team

The location of other treatment facilities will be determined by the requirements of the event, course configuration, ambulance access etc. At larger events it is common to provide a primary treatment facility for more serious cases within the competitor only ‘sterile area’ and a secondary treatment facility for ‘walking wounded’ (primary care) in the public assembly area

Consideration must be given to safe vehicle access for ambulances to and from treatment facilities

Event Management

This section deals with areas relating to management of the event

Accident reporting. Race organisers are required to report fatalities and serious medical incidents to UK Athletics as soon as possible after the event. Contact details are listed on the bottom of the post-race return form

Injury or sickness of runners are not reportable to the Health & Safety Executive or local authority environmental health department as ‘workplace accidents’ (under RIDDOR), unless caused by the negligence of event staff (eg runner tripping over equipment)

Adverse weather planning. Contingency plan in the event of adverse weather conditions on race day, for unseasonably sunny, hot, humid, cold, wet or windy weather. Typically will include responsibility for monitoring long/medium range weather forecast in the period leading up to the race (useful information sources include local BBC or MetCheck websites) procedures for providing additional drinking water, sponge stations or showers for hot/humid weather, blankets & shelter for cold/wet weather, warning less experienced competitors to take extra care (such as slowing down & adjusting target times in hot weather, or wearing extra clothes & getting changed quickly in cold & wet weather), circumstances & procedures for cancelling the race, shortening or diverting the course & notifying competitors & officials
Heat Injury Guidance – wet globe bulb temperatures

- Above 28°C (82°F) - races should be cancelled, postponed or modified
- 23-28°C (73-82°F) – runners should be advised to slow down & take additional measures to ensure hydration. Runners sensitive to heat or humidity to be advised not to compete
- 18-23°C (65-73°F) - runners should be advised to take measures to ensure adequate hydration & runners with high risk of heat injury to be advised not to compete
- Below 18°C (65°F) - Risk of heat injury is low
- Below 10°C (50°F) - runners should be advised of increased risk of hypothermia (‘exposure’). Risk of heat injury is low

Unusual weather patterns and sudden changes in weather on (or even during) race day can have significant adverse effects on competitors (volunteers & spectators), for instance when a sudden change to hot and/or humid weather occurs on race day after a sustained period of cool, dry weather in the weeks/ or months leading up to the race. Variations and extremes of weather will also have significantly greater adverse effects at longer distance races over 10k, than at shorter distances

Heat injury cases are more likely in shorter races under 5km, and exertion related injury more likely in races over 10km

Age suitable distances. See UKA Rules of Competition. For fun runs see UKA Licence Standards

Designated ‘drop out’ point. A pre-arranged location on the course, advertised with facilities for exhausted (but otherwise well) runners to drop out of the race, with transport & shelter etc back to the finish. Provision needs to be made for exhausted runners, particularly in exposed locations or unfavourable weather, to prevent them deteriorating to the point where they require medical treatment

Event team briefing. Event staff and volunteers are not expected to carry out medical treatment, unless qualified to do so. However they should be briefed to assist both runners in difficulty and medical team in getting to and evacuating an injured runner. In many races the marshal will be the first point of contact for an injured runner. They should be briefed to look out for runners in difficulty, to notify the medical team (contact details & means of communication) including details of the location and injury type (eg conscious/unconscious, breathing/not breathing, head injury, minor injury etc)

See Marshal’s Briefing Card – Appendix 10 & 11

Injury & fatality protocols. Procedures for handling family, press and official (health & safety executive, coroner, UKA etc) enquiries in the event of an injured runner (or fatality) at or as a result of the race should be pre-arranged before the event between the event organiser and medical provider. See family liaison

Licensed road race. A ‘road race’ staged by an affiliated club (or associate) of the national athletic association (England Athletics, Scottish Athletics, Welsh Athletics, Athletics Northern Ireland) under a UK Athletics road race Licence

Licence Officer. The designated regional panel (or officer) appointed by the national association to administer race licence applications on behalf of UK Athletics. Can also be a useful source of information and support for race organisers
Medical advice to competitors. Information provided to entrants on common medical conditions arising out of participation in endurance races such as pre-existing medical conditions, fitness to compete, training, diet, hydration strategy (dehydration and over-drinking), sickness before race day, race day tips, injury prevention and treatment. This information is typically provided before the race, often at time of entry, in race packs and/or in final instructions.

A useful reference is the www.runnersmedicalresource.com website by the RunBritain Medical Advisory Group, and available as a free point of reference and information resource for use by licenced road races.

Medical demand. Medical demand increases in later stages of the race (eg after 10 miles for a half marathon) & according to the psychological profile of the course (eg higher incidents of collapse and/or drop out at first aid posts, or at the bottom of a hill, away from spectators).

Medical Plan. A description of the medical services to be provided by your first aid or medical provider, including a summary of the resources (numbers & locations of first aid posts, ambulances etc), treatment protocols (extent of on-site treatment services & procedures for transportation of urgent casualties), access & use of equipment & drugs, insurance etc plus details of facilities required to be provided by the race organiser.

Patient confidentiality & privacy. Medical staff and event team members are required to respect patient confidentiality and not to release information which could result in the identification of any patient (even to family members) without the consent of the patient. Races should include a disclaimer within the entry form (and on the rear of the race number) authorising release of a runner’s personal and contact details by the medical team to the event staff for the purpose of contacting relatives and statutory authorities in the event of a medical emergency. Staff should be briefed not to disclose personal details (eg name, or age) over the radio or public address system, in conversation or in correspondence.

Wherever possible treatment facilities should be screened to respect patient privacy & means provided (eg security) to exclude public access (photographers etc).

Race date/time selection. The important of choosing a date and start time to avoid extreme weather conditions – for instance cold weather in mid-winter (early morning or late afternoon) & hot weather in mid-summer (or midday).

RAYNET. A national licensed amateur radio network within each local authority in the UK providing emergency communications for statutory and volunteer emergency service organisations. Local RAYNET groups are often willing to provide radio communications for road races, as a useful training exercise. For contact details of your local group see www.raynet-uk.net/main.

Rear of Race Number. A form on the rear of the race number worn on race day, completed by the competitor with their own contact details, next of kin & previous medical history (eg current medication), to assist identification and appropriate medical treatment in the event of collapse. Also including a disclaimer giving consent by the runner for the medical team to release details of the patient to the race organisers for the purpose of contacting next of kin in the event of a medical emergency.

Provision of this form on the back of race numbers is a requirement for all UKA licenced road races.

Response time. The time taken from the initial call for medical assistance (eg from the marshal) until the arrival of the first medical team at the scene of the incident. See appendix 6.
Road Race. For the purposes of this paper, ‘road race’ is assumed to mean any athletic or running event receiving a UK Athletics Road Race Licence

Safety Advisory Group (‘SAG’) or equivalent. The regulatory group set up by each local council to co-ordinate statutory (eg ambulance, police & fire) and local authority services (eg highways safety, refuse, public transport, parking, food hygiene, emergency planning) for public events outside the requirements of the Licensing Act or the Safety of Sports Ground Act. This is the first point of contact for road race organisers with the local council, NHS ambulance service, police, highways etc. Sometimes known as the ‘event safety group’

Arrangements vary from one local authority to another, but SAG groups are often chaired by a representative from the licencing section from the public protection or environmental health department

UKA Adjudicator (or Licence Scrutineer). The adjudicator is a new innovation, a UKA licenced endurance official appointed by each race organiser to inspect the event to ensure compliance with Licence Standards, reporting to the regional licence office (or licence officer)

Adjudicators replace the previous scrutineering scheme by British Association of Road Races (‘BARR’) scrutineers, and some of the reporting duties previously undertaken by the race referee

UKA Licence Standards. The mandatory minimum safety and management standards required to be met as a condition of staging a road race under a UK Athletics Licence, reviewed annually by the RunBritain technical group

Unlicensed road race. A road race staged without a UK Athletics Licence. For instance a road race organised by a charity or commercial organisation not affiliated to UK Athletics

Medical treatments

Note : This section is intended to inform race organisers about the most likely injuries & treatments to be experienced at a road race, to inform discussions with your medical providers

Airway management. In terms of road race medical services, airway management will largely be restricted to first aid procedures to ensure oxygen supply to the lungs in cases of respiratory (breathing) failure

Intubation is an emergency procedure used in cases of severe respiratory failure, involving the insertion of a flexible plastic tube into the trachea to protect a patient’s airway & provide a means of mechanical ventilation. Rarely required at road races

BM monitor (Glucometer). Instrument to measure blood glucose levels. Useful for diagnosis of hypoglycaemia. Sometimes used in primary treatment facilities at larger races, relatively cheap equipment. Should ALWAYS be available if a health care professional – Doctor, Nurse or Paramedic are on site

Clinical drugs. The supply & prescription of clinical drugs to an event, typically for pain relief, cardiac resuscitation, asthma relief & intravenous (injection or drip) fluids is the responsibility of the doctor/s and/or paramedic/s

Cardiopulmonary resuscitation ‘CPR’. Cardiopulmonary resuscitation ‘CPR’ focuses on the medicine ‘ABC’s of pre-hospital emergency care :
- **Airway** - the protection and maintenance of a clear passageway
- **Breathing** - inflation and deflation of the lungs
- **Circulation** - providing an adequate blood supply to critical organs

**Dehydration.** Condition due to low fluid intake, often associated with over-exertion in hot weather. Rehydration treatment is normally by oral fluid. In extreme cases intravenous fluids (saline injection or drip) may be required.

Mild to moderate dehydration is common during and after participation in endurance events, particularly in hot or humid conditions. Dehydration is generally easy to identify and to treat or self-medicate. Runners should be educated in sensible hydration strategy for both pre-race training and race day conditions. Guidance on hydration strategy is contained in the [www.runnersmedicalresource.com](http://www.runnersmedicalresource.com) website.

See adverse weather planning above.

- **'Heart attack'.** A life threatening medical emergency caused by blockage of a coronary artery supplying blood to the heart, usually associated with coronary artery disease, often accompanied by chest pain & shortness of breath potentially leading to heart damage, cardiac arrest and death. Primary first aid response is ‘CPR’ (cardiopulmonary resuscitation) and external defibrillation.

- **Hypernatremia.** Sometimes fatal condition causing kidney failure due to low blood salt levels, often associated with failure to replace salts lost through over-exertion (and sweating) in hot weather, and dilution due to excessive ‘over-drinking’ of water.

Cases of hypernatremia (and fatalities) have increasing been reported at UK road races in recent years. Hypernatremia can be difficult to diagnose and to treat. See advice to runners on avoiding hypernatremia at the [www.runnersmedicalresource.com](http://www.runnersmedicalresource.com) website. Also see adverse weather planning above.

- **Hyperthermia.** ‘Overheating of the body’. There are various types of heat related illness including heat stroke and heat exhaustion. People suffer hyperthermia when the body's temperature control system is overloaded, often associated with exertion in hot and humid weather. As distinct from Hypothermia (‘exposure’) below.

Treatment will normally include rest, protection from further heat exposure (in shaded treatment facilities) provision of fluids and cooling (ice treatment). See adverse weather planning.

- **Hypoglycaemia.** Low blood sugar typically associated with over-exertion (and diabetes), usually treated by oral fluids (‘sugary’ sports drink). In more extreme cases dextrose/glucose type intravenous fluids (injection or drip) may be required.

- **Hypothermia.** ‘Exposure’. A condition where the normal body temperature drops below 35°C. Sometimes referred to as ‘exposure’ in cold & wet weather. As distinct from Hyperthermia (‘overheating’) above. Usually determined by measurement of core body temperature using rectal thermometer.

Treatment is normally by rest, protection from further exposure and warming the body (covered and heated treatment facilities, blankets and hot drinks). See adverse weather planning.

- **Other medical disciplines.** Physiotherapists, sports masseurs, podiatrists. Useful, but not essential.
Pre-existing medical conditions. Whilst a number of medical conditions (eg asthma, diabetes, heart disease) can benefit from regular exercise, runners with certain medical conditions (eg angina) should be advised in pre-race literature or by reference to the www.runnersmedicalresource.com website) either not to compete in endurance events, or only to do so on the advice of their GP.

Runners should also be advised not to compete if they have suffered a fever or sickness in the week before the race.

Triage. The initial medical diagnosis of injured and/or sick runners by the medical team.
APPENDIX 6

PLANNING & DELIVERY OF MEDICAL SERVICES

A summary of the planning & delivery process for medical services at road races is set out below.

Documentation

To satisfy both the requirements of the ‘duty of care’ and UKA licence conditions an event organiser must ensure that a Medical Risk Assessment and a Medical Plan are prepared in good time before the event, both must be recorded in writing and should be prepared in collaboration between the event organiser and the first aid and medical provider/s.

The medical risk assessment analyses the type, severity and probability of hazards, considering appropriate control measures to reduce that risk, taking into account both the clinical need and the individual circumstances of the event. At larger events the action points arising out of the risk assessment are often extracted for convenience into a separate safety (or operational) plan for use by the event team on the day.

The event medical plan is in effect the operational plan for the medical team, describing the first aid and medical resources to be provided to the event including:

- Names, responsibilities, locations & contact details for key first aid & medical staff, key event team members & emergency services
- Details & locations for first aid & medical resources (static & mobile)
- Details of the local NHS receiving hospital/s
- Command & communication structures. Sign in and stand down procedures
- Services & equipment to be provided by the event organiser
- Treatment protocols for likely medical conditions
- Arrangements for recording & reporting of casualties. Family liaison & welfare
- Reporting advice to marshals
- Volunteers, staff & first aid / medical team welfare
- Fatality protocols & media relations

Local Authority Consultation

Prior to the tender process initial consultations should be undertaken with the emergency & event planning officer for your local NHS ambulance service (and accident & emergency hospital/s) – through the local authority Safety Advisory Group (‘SAG’) or equivalent, and the UKA area licence officer.

Determining Appropriate Medical Resources

- Select the relevant matrix for your event, using the event distance & competitor numbers, to determine the recommended ‘standard minimum’ medical cover. The ‘standard minimum’ cover is based on a number of stated assumptions about the profile of the event.
- Conduct the medical risk assessment comparing the profile of your particular event against the assumed ‘standard’ variables.
In preparing the event medical plan the ‘standard minimum’ cover recommended by the appropriate matrix should be adjusted to reflect the higher (or lower) risks of your particular race, as identified in the medical risk assessment.

Pre-Contract / Tender Stage

The appointment of the first aid / medical provider should follow a quotation/tender exercise and formal order for supply of defined services based on an assessment of the risk and medical requirements.

Great care should be taken in the selection of first aid / medical providers for public events. Besides cost, a range of factors needs to be considered, including evidence of qualification & insurance (registration with the Care Quality Commission – ‘CQC’), the range of services & skills available, expertise & experience at similar events (written references should be obtained & performance at other events observed), reliability of attendance (voluntary sector providers rely upon turnout by volunteers),

There are advantages in continuing to use previous providers, having gained valuable experience of your particular event, course configuration, competitor & injury profile, and established communication paths with your event team. But periodic review of medical providers is also beneficial (say every 2-3 years).

Option A – Selection by Negotiation - Preferred Medical Provider

When the first aid / medical provider has already been pre-selected, for instance when the race organiser wishes to re-appoint the previous year’s provider, the following appointment process is appropriate:

- The appointment of the preferred first aid / medical provider by the race organiser. Based on a ‘letter of intent’ to place a contract, subject to confirmation of final requirements.
- The race organiser and first aid / medical provider jointly prepare the medical risk assessment & jointly determine medical requirements using the UKA Good Practice Guide to Medical Services.
- The submission of quotation for medical services by the first aid / medical provider. The placing of a formal order for defined medical services by the race organiser.

Option B – Selection by Tender – New Medical Provider

This appointment process is applicable when the race organiser wishes to consider appointing a new first aid / medical provider, for instance for a new event or significantly changed event, or for periodic review of first aid / medical services at an existing event:

- The race organiser prepares the draft medical risk assessment & determines a provisional requirement for first aid / medical services based on the UKA medical services guide.
- The submission of competitive tenders for medical services from alternative suppliers, based on the provisional medical requirements.
● The appointment of the successful first aid / medical provider by the race organiser based on a provisional order, subject to confirmation of final requirements.

● Joint review of the medical risk assessment & medical services requirement carried out by the race organiser and first aid / medical provider.

● The submission of amended quotation from the appointed provider, based on the amended requirements – if applicable.

● The placing of a formal order for defined medical services by the race organiser, based on the agreed final requirements.

**Post Contract**

Arrangements following the appointment of the first aid / medical provider can be briefly summarised as follows:

● The race organiser should prepare the Event Safety Plan – incorporating the action points identified in the risk assessment for use by the event team on race day.

● The chosen first aid / medical provider should prepare the Medical Plan, defining the medical resources, treatment protocols, command & communication and emergency protocols - for approval by the race organiser.

● The race organiser should organise pre-race liaison and/or meeting between the event & first aid / medical teams, to discuss final arrangements for race day, contact details etc.

**Race Day Delivery of Medical Services**

A brief summary of the race organisers responsibilities for the provision of medical services on race day are set out below:

**Attendance** – the race organiser must ensure that procedures are in place to check that the agreed first aid / medical team resources have arrived on the day, before the race is started.

**Identify casualties** – the race organiser must ensure that marshals and/or first aid observers (with means of communication) are located at regular intervals around the entire course to promptly identify & report injured competitors to the event and/or medical teams. Ideally a ‘sweeper vehicle’, cyclist or runner should be provided to identify the last competitor (and enable marshals & first aid and medical team members to stand down) and to ensure that no competitors are left remaining on the course.

The frequency of observers should be increased in the last third of the race distance, and additional observers provided in the finishing straight, finish area, and post-finish (assembly) areas.

**Assess casualties** – the race organiser must ensure that all event marshals are briefed to carry out an initial assessment of the medical condition of any casualty (checking breathing, consciousness, responsiveness, pulse, obvious injury, illness or medication noted by the competitor on the medical form on the rear of the race number).
Report casualties – the race organiser must ensure that event marshals are provided with means to communicate with the first aid and medical team (either direct or via event control) from all parts of the course.

Provide BLS/ALS to casualty – the race organiser must ensure that mobile first aid and medical resources are available to reach a casualty at any part of the course to provide an effective initial medical response within 8 minutes of receipt of a report of a life-threatening injury.

Evacuate casualty – the race organiser must ensure that resources are provided to evacuate casualties from any part of the course to the event treatment facility (if provided), or to hospital, and to collect & transport ‘exhausted’ runners back to the finish.

Inform – the race organiser must ensure that resources are available both to receive information on casualties from the first aid and medical team (particularly serious or emergency cases) and to communicate information on casualties to family members & emergency services – subject to patient confidentiality.

Before standing down from the event the first aid and medical provider should provide the race organiser with a brief report (verbally or in writing) summarising any serious cases or emergency cases treated at the event.

In the event of fatality or serious injury notification must be provided to UKA Athletics Services by the race organiser as soon as possible after the event.

Post-Race Review & De-Brief

- The first aid and medical provider should provide the event organiser with a summary report of the total number of medical contacts (patients treated) and details of any serious cases (hospital transfers etc)

- The race organiser should submit the completed UKA Medical Return form to the licence officer based on the incident report provided by the first aid and medical provider

- The race organiser should carry out a post-race review & de-brief jointly with the first aid and medical provider
INJURY
Injury occurring to competitor, spectator, volunteer or event team member

OBSERVATION
Injury observed by competitor, marshal, spectator, event or medical team member

Additional marshals may be needed to ensure effective reporting around the whole course route

REPORTING
Injury reported
To - event or medical team
By - competitor, marshal, spectator, event or medical team member

Injury report should include medical assessment of casualty, location of incident & competitor race number

RECEIPT OF INJURY REPORT
Report of an injury received by the event or medical team

8 minutes response time

TRIAGE
Medical team to determine medical response according to clinical need

MEDICAL TREATMENT
Provision of BLS & defibrillation to casualty within 8 minutes of receipt of report of injury by event or medical team

EMERGENCY CASES
ie life threatening

MEDICAL TREATMENT
Provision of appropriate first aid as soon as possible

NON-EMERGENCY CASES
Non life threatening
APPENDIX 8

MODEL CONTACT FORM ON REAR OF COMPETITORS’ RACE NUMBERS

<table>
<thead>
<tr>
<th>RACE ENTRIES ARE NON-TRANSFERABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any participant taking part without a valid paid entry registered in their own name will be disqualified</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COMPETITOR’S MEDICAL DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>All runners are required to complete the personal details on this form for use in a medical emergency. Please complete all sections of the form carefully in block capitals using waterproof biro ballpoint pen or similar. Where competitors are under 16 yrs this form must be completed by parents or guardians</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Runners Details :</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surname</strong></td>
</tr>
<tr>
<td><strong>Address</strong></td>
</tr>
<tr>
<td><strong>Postcode</strong></td>
</tr>
</tbody>
</table>

Any runner with an existing medical problem which requires special attention, such as epilepsy, diabetes or a history of heart problems, is required to mark a large cross in black felt tip pen on the front of their race number

<table>
<thead>
<tr>
<th>NEXT OF KIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>As a condition of entry to this event all runners agree to their personal and medical details being released by the medical team to the event organisers to inform next of kin and statutory authorities in the event of a medical emergency</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Next Of Kin Contact Details : (for race day)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surname</strong></td>
</tr>
<tr>
<td><strong>Mobile phone no</strong></td>
</tr>
<tr>
<td><strong>Home phone no</strong></td>
</tr>
</tbody>
</table>

All UKA licenced road races must provide this pre-printed form on the rear of competitors’ race numbers

The conditions of entry should include the medical disclaimer including the runner’s consent for his/her personal and medical details being released by the medical team to the race organiser to inform next of kin and statutory authorities in the event of a medical emergency

The race rules should also include a requirement for competitors to complete the contact form before competing. Reminders should be provided in pre-race publicity and race day signage and/or announcements, plus facilities
APPENDIX 9

FINISH AREA ARRANGEMENTS & MANAGEMENT

Special consideration should be given to the arrangement and management of the race finish area to ensure prompt identification of casualties and clear access for medical teams. Planned arrangements for the finish area should be discussed and agreed between the event and medical teams in advance of race day.

General guidance on the layout and management of finish areas is set out in UK Athletics ‘Road Race Handbook’, published by the RunBritain technical group.

Peak demand. In shorter distance races, or races with larger competitor fields finisher numbers can exceed 100-150 across the finish line per minute at peak finishing time. Sufficient marshal and medical resources must be provided to deal with a significant proportion of runners requiring assistance in the primary finish area, suffering from conditions varying from temporary exhaustion, to unsteady balance, vomiting, or even collapse.

Runners’ collapse. Most incidents of collapse due to exhaustion (or cardiac arrest) at endurance events occur in the primary finish area, others are commonly encountered in the last 1/3rd of the course as runners become more exhausted, at more physically challenging points of the course (such as the top of steep hills), or at more psychologically challenging points (such as turnaround points, at the bottom of steep hills, or where spectators are scarce). But collapse due to cardiac arrest can occur at any point around the course.

Interaction between marshals and the medical team. Marshals play a vital role in the finish area and on the course identifying and assisting casualties, preventing further injury (by catching stumbling runners, or protecting them from traffic or being trampled by following runners), and in reporting injuries to the medical team, assisting the medical team get access to and to repatriate casualties. It is essential that the arrangements for communication and co-operation between marshals and the medical team for the assistance and reporting of casualties are agreed and clearly understood by all parties before race day.

Exclusion of non-essential personnel. As far as possible non-essential personnel should be excluded from the primary finish area, allowing clear access for catching marshals and the medical team. Separate facilities or viewing areas should be provided for spectators & general public, press, sponsors, officials etc and provision made to prevent re-entry by runners who have already finished waiting for friends etc still on the course.

Primary treatment area. A first aid post, or facility provided within or with direct access to the primary finish area to provide immediate response to urgent casualties at the race finish. Ideally with have direct ambulance route from the course and to the shortest route to the local NHS A&E hospital.

Secondary treatment area. A first aid post provided after the post finish area at larger races to provide treatment of more minor ‘walking wounded’ cases. Ideally with direct access to the course route, typically to receive exhausted but uninjured runners repatriated by the sweeper bus from the course.

Timing methods. The method of timing at a race finish selected by the race organiser can significantly effect the arrangement and management of the finish area, particularly for shorter distance races, or races with larger numbers of competitors when finisher numbers can exceed 100-150 across the finish line per minute. The following notes are provided for the benefit of medical providers unfamiliar with the alternative timing methods available.
With traditional manual timing (or ‘hand timing’) the finishing time of each runner is recorded by a timekeeper using a hand held stopwatch as the runner crosses the finish line, and their race number usually separately recorded as they emerge from a finishing funnel at the end of the secondary finish area. The finish times and sequence of finishers race numbers are then merged to produce a single results list.

With modern chip timing each competitor’s finishing time and number is recorded automatically as the transponder in their timing chip (typically worn on their shoe, ankle or on their race number) crosses a series of mats laid on the ground on (or under a wire suspended over) the finish line.

In hand timed races the secondary finish area is usually divided into long narrow funnels through which runners walk slowly in single line in finish order. This has the advantage (over chip timed finishes) as side barriers used to segregate funnels and the runner behind & in front of each competitor tend to assist unsteady competitors as they walk down the funnel. On the other hand segregation into long narrow funnels can restrict access for the medical team, unless clear trolley lanes for medics (with intermediate access points, and ready exit points at each end) are provided alongside the runners funnels. See layout plans in the UKA Road Race Handbook.

Chip timed finishes which are becoming more and more common, particularly at larger races, have the benefit of being free of finishing funnels and simpler to manage, providing easy access for the medical team, but requiring closer attention by catching marshals and the tendency to ‘clutter up’ with non-essential personnel and finished competitors waiting on the line for friends etc still to finish.

Sterile area. The area provided at the finish of larger races for competitors, medical team, officials etc from which spectators, general public etc are typically excluded. As distinct from ‘public’ or unrestricted areas.

Primary finish. The area immediately adjacent to and behind the finish line where competitors change down from running to walking.

Secondary finish. The area between the primary finish and post-finish allowing runners to recover and walk immediately after finishing - with sufficient capacity to avoid congestion of finished runners backing up over the finish line. In hand timed finishes this area is normally subdivided into narrow finishing funnels.

Post Finish. The area for distribution of drinks, medals, race mementoes, goody bags etc and removal of timing chips. This should be placed far enough from the finish to avoid congestion over the finish line. At larger races typically prior to dispersal into the public assembly area.

Public address systems. Race announcers or commentators, typically provided at larger races, play an important role in providing final safety instructions or information on race day changes to runners assembled at the race start (see adverse weather planning above), and in the finish area, including requests for runners to keep walking through the finish area (not to linger or obstruct), information to spectators and in the event of emergency, evacuation etc.

PA systems within finish areas should be arranged (speaker location, sound levels & duration of broadcast) so as not to impede communication between marshals, runners and the medical team. Loudspeakers should not be provided adjacent to the primary finish or treatment areas.
Incidence of finish line collapse at endurance events is significantly increased where competitors engage in sprint finishes. Runners should be discouraged from sprint finishes in pre-race advice and race day public announcements unless they are experienced or elite athletes with regular practice at interval or speed training. The practice of commentators encouraging sprint finishes by less experienced runners by ‘counting down’ to key finishing times (eg 20 mins for 5km, 40 mins for 10km or 90 mins for half marathon) should be discouraged.

**Forward ‘catchers’**. Experienced marshals provided to identify and assist exhausted runners prone to collapse in sight of the finishing line, directing collapsing runners to the medical team.

**Primary ‘catchers’**. Experienced marshals provided to identify and assist exhausted runners prone to collapse or to sudden stop (blocking the path of following runners) as they cross the finishing line, directing collapsing runners to the medical team or recovery areas (typically barriers provided as leaning posts) at the side of the finish area, whist keeping the central pathway clear. Typically working in pairs on either side of the finish area.

**Secondary ‘shovers’**. Experienced marshals encouraging runners to keep walking through the finish area (within funnels at hand timed finishes) and preventing access by unauthorised personnel or the re-admission of runners already finished.

**Post-finish observers**. Marshals provided in the post-finish area to assist and direct ‘walking wounded’ runners to the first aid post, and to identify cases of post finish area collapse.

**Post finish refreshments**. Drinking water must be provided adjacent to the finish area at all endurance events. The provision of sugary energy drinks and/or food items is also recommended to reduce incidence of post finish area collapse. Drinks should also be provided at first aid posts and treatment areas for distribution by medical team. For requirements on drinks on course see UKA licence standards. Also see adverse weather planning above.

**Personal hygiene**. Marshals should try to avoid contact with a casualty’s bodily fluids (vomit, blood, urine etc). Basic hygiene should be provided to clear up any spills and to clean marshals. Sterile gloves, bagged sand, disposable sick trays, stiff brooms and personal wash facilities are useful.
APPENDIX 10

MARSHAL’S BRIEFINGS

ASSESSMENT & REPORTING OF CASUALTIES

Protect the Casualty

Protect the casualty from further injury, or other runners from tripping over them. Deploy marshals to divert runners and/or vehicles around the casualty. Do not move the casualty if there is any indication of neck or back injury – otherwise move them to a safe location (where they can easily be evacuated) & place in the recovery position – see CPR notes below.

Assess the Casualty

- Is he/she conscious? Are they responding (talking sensibly)?
- Is there any obvious sign of injury? eg bleeding, bruising, twisted limbs

- If they are unconscious – are they breathing freely?
  If not check that their airway is not obstructed
  ** Note checking the pulse is not a reliable indicator **

- If unconscious or not responding check the back of the casualty’s race number for details of any medical condition listed & report to the first aid and medical team.
  Note : If you remove the race number make sure you hand it to the first aid and medical team on their arrival.

Report the Casualty

Report the casualty immediately to your team manager

Phone number to report casualties ………………………..* to be completed *
Radio channel to report casualties ………………………..

Please try to speak calmly & have the following information ready when you call:

- Your own name, contact details (phone number or radio call sign) & time of the incident
- Exact location of the casualty
- Casualty’s race number (do not give out the casualty’s name or personal details over the radio – this is OK on the phone)
- Nature of the incident & condition of the casualty - including any notes on back of race number

For instance:

Marshal John Smith at point 14.
requesting medical support for injured runner at junction of Avon Road and Broadmead Avenue.
Male competitor race number 234 collapsed & unresponsive but conscious and no obvious injury, declared as diabetic on back of race number.

Ensure your message is acknowledged, but don’t contact control again unless the condition of the casualty either significantly deteriorates or improves. The first aid and medical team will prioritise their resources to the most urgent cases first – and repeated calls about your casualty
could block calls about other more urgent cases, or lead the medical team to believe they are required at multiple casualties, or to ignore another reported casualty

**Stay with the casualty**

Stay with the casualty until the first aid and medical team arrive, monitor his/her condition periodically. Prepare the access route for the first aid and medical team – you may need to move barriers or spectators

Try to stop anyone taking photos of the casualty – this is a breach of the patient’s confidentiality

Offer the casualty space blankets and fluids (water and/or energy drink) if available. Provide shelter/shade in cold/hot weather or in exposed locations

Try to avoid contact with a casualty’s bodily fluids (vomit, blood, urine etc). Use basic hygiene to clear up any contamination
APPENDIX 11

MARSHAL’S BRIEFINGS

CPR GUIDANCE FOR MARSHALS

www.sja.org.uk/sja/first-aid-advice.aspx

Recovery position

- Turn casualty onto their side
- Lift chin forward in open airway position
- Lay lower leg straight out
- Lay lower arm diagonally away from the shoulder
- Fold upper arm under the cheek
- Fold upper knee up towards chest
- Check they cannot roll forwards or backwards
- Monitor breathing continuously

When someone has stopped breathing

Open airway
If they are unconscious, check their airway is open and clear

Tilt head
Tilt their head and lift their chin to open their airway

Check for breathing
- 1. Look along their chest, and listen and feel for breaths
- 2. If they are not breathing, their heart will stop. CPR must be started immediately

Call for help
Call event/medical control (or 999) and ask for an ambulance

Pump
- 1. Place one hand on the centre of their chest. Place the heel of your other hand on top of the fist and interlock your fingers, keeping your fingers off their ribs
- 2. Lean directly over their chest and pressing down vertically about 5-6cm (2-2½ inches). Release the pressure but don’t move your hands
- 3. Give 30 compressions at a rate of 100-120 per minute

Breathe
If you are unable, or don’t want to give rescue breaths you can continue with chest compressions only but CPR is more effective when chest compressions are combined with rescue breaths

- 1. Tilt their head back with one hand and lift their chin with two fingers of your other hand to ensure their airway is open
- 2. Pinch their nose to close their nostrils. Take a breath, seal your lips over their mouth and breathe out until their chest rises

www.sja.org.uk/sja/first-aid-advice.aspx
3. Maintaining the head tilt and chin lift, take your mouth away from theirs. Look along their chest and watch it fall
4. Repeat to give two rescue breaths. Repeat 30 chest compressions, follow by two rescue breaths.

Continue CPR until emergency help arrives, they start to breathe normally or until you’re too exhausted to continue
APPENDIX 12

USEFUL REFERENCES

1. EVENT TEAM

RunBritain ‘Race Directors Portal’ website www.runbritain.com/rdp/


- RunBritain Medical Advisory Group ‘Runners Medical Resource’ best practice website advice for runners preparing for endurance events www.runnersmedicalresource.com


2. MEDICAL TEAM

Resuscitation Council UK guidelines