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Hutton, Alison; Ranse, Jamie; Munn, Matthew Brendan; "Developing public health initiatives through understanding motivations of the audience at mass-gathering events". Published in Prehospital and Disaster Medicine Vol. 33, Issue 2, p. 191-196 (2018)

Available from: http://dx.doi.org/10.1017/S1049023X18000067

This article has been published in a revised form in Prehospital and Disaster Medicine <a href="http://dx.doi.org/10.1017/S1049023X18000067">http://dx.doi.org/10.1017/S1049023X18000067</a>. This version is free to view and download for private research and study only. Not for re-distribution, re-sale or use in derivative works. © World Association for Disaster and Emergency Medicine

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## PREHOSPITAL and DISASTER MEDICINE



### Developing public health initiatives through understanding motivations of the audience at mass gathering events

Journal:	Prehospital and Disaster Medicine	
Manuscript ID	PDM-17-0077	
Manuscript Type: Special Report		
Keywords: mass gatherings, motivation, public health, harm minimization, audie		

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1 SPECIAL REPORT

#### **Developing Public Health Initiatives through Understanding**

#### **Motivations of the Audience at Mass-Gathering Events**

**Keywords:** motivation; audience; public health; health; harm minimisation

Abstract

This paper identifies what we know about audience motivations at three different mass gathering events; outdoor music festivals, religious events and sporting events. In light of these motivations the paper will discuss how these can be harnessed by event organiser and emergency medical services. Lastly motivations tell us what kinds of interventions we can use to use an understanding of audience characteristics and the opportunity to develop tailor made programs to maximize safety and make long-lasting public health interventions to a particular "cohort" or event population. A lot of these will depend on what the risks / hazards are with the particular populations in order to "target" with public health interventions.

Audience motivations tell the event organiser and emergency medical services about the types of behaviours they should expect from the audience and how this may affect their health whilst at the event. Through these understandings health promotion and event safety messages can be developed for a particular type of mass gathering event based on the likely composition of the audience in attendance. Health promotion and providing public information should be at the core of any mass gathering event to minimise public health risk, and to provide opportunities for the promotion of healthy behaviours in the local population.

Audience motivations are a key element to identify and agree on what public health information

is needed for the event audience. A more developed understanding of audience behaviour provides

critical information for event planners, event risk managers and emergency medical services

personnel to better predict and plan to minimise risk and reduce patient presentations at events.

Mass gathering event organisers and designers intend their events to be positive experiences and

to have meaning for those who attend. Therefore continual vigilance to improve public health

effectiveness and efficiency can become best practice at events. Through understanding the

motivations of the audience, event planners and designers, event risk managers and emergency

medical personnel may be better able to understand the motivation of the audience and how this

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#### Introduction

might impact on audience behaviour at the event.

Mass gathering event planners and designers intend for their events to be positive experiences and to have meaning for those who attend. Mass gathering events are important as the shared experience of attendance can lead to 'communitas'. Getz¹ defines communitas as the shared experience of the audience, including a sense of belonging and kinship. Motivations tell the event organiser about the types of behaviours they should expect from the audience, which may lead to patient presentations. Through these understandings health promotion and event safety messages can be developed for a particular type of event based on the likely composition of the audience in attendance.

There are three goals to this paper, firstly to discuss motivations of the audience attending outdoor music festivals, sporting events and religious events. Secondly to discuss how these motivations can be harnessed by event organizers and onsite medical teams and thirdly, what

types of interventions can we use to promote harm reduction and maximize safety whilst tailoring these to each specific crowd. The long term aim to make long-lasting public health interventions in a particular "cohort" or discrete event type population.

#### Report

Background

Health promotion and providing public health information should be at the core of any event to minimise public health risk, and to provide opportunities for the promotion of healthy behaviours in the local population<sup>2</sup>. A key part of this process is to identify and agree on what public health information is needed for the mass gathering audience. Secondly, how this information should be communicated, and any other health messages or strategies that need to take place. A more developed understanding of audience behaviour may provide critical information for mass gathering event planners, event risk managers and emergency medical service personnel to better predict and plan to minimise risk of injury or illness. In turn, this may reduce patient presentations at events and reduce health service usage. For the event designer, understanding audience motivation and subsequent behaviour enables the design of the event to be modified and to adapt settings and programs as a response to observable audience behaviour in real time<sup>3</sup>.

According to Hutton, Brown and Verdonk<sup>4</sup> it is important to remember that audiences do not arrive at an event as a 'blank slate', but bring with them a range of motivations. These motivations include four main elements 1) the demographic and sociographic of the individual, 2) the expectations of the audience based on how the event is marketed 3) the audience members' previous experience at events, and 4) the beliefs of the family or friends that accompany the audience member to the event. Motivations in the mass gathering context can

also include pre-event drug and alcohol consumption. These motivations do not solely dictate or indicate audience behaviour, but are one of a wide range of factors that influence, and that can perhaps modify, audience behaviour at an event<sup>4</sup>.

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Escaping Everyday Life

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Too often there is an expectation that audiences will comply with set rules and not act outside societal boundaries at events. This belief is flawed, as with freedom of choice comes freedom of action, and staying healthy or being safe is not always at the forefront of people's minds at mass gathering events. It is well documented that music festival goers attend outdoor music festivals to escape everyday life and part of this escapism may include the use of alcohol and other drugs at these events<sup>5,6</sup>. Outdoor music festivals are often reported to have a high rate of incidents and presentations to onsite care due to the presence of alcohol and other drugs<sup>7,8</sup>. Rule breaking, which includes high levels of intoxication is not new in the mass gathering space. Researchers who reported on both the 2004 Oxegen festival in Ireland and the 1999 Sweetwaters festival in New Zealand both reported high levels of intoxication<sup>9,10</sup> and a significant increase in presentations at the emergency departments of local hospitals<sup>9</sup>. Social and physical environments can heavily influence the safety of people at outdoor music festivals. Social factors include individual motivations, behaviours, knowledge of people at an event<sup>11</sup>. Whereas physical environments include mosh pits and activities such as crowd surfing; where audience members purposively crush together in a tight group in front of the stage <sup>12,13,10</sup>

place can assist in event design, planning of health care services and associated health promotion activities at these events to enhance spectator experience and services (Please see Table 1).

An Act of Faith

Religious events especially, can see over-zealous behaviour. For example religious events like the Hajj may be a pilgrimage that participants make only once in their life. Rituals that demonstrate a display of faith often dominate religious events<sup>14</sup>. Religious followers that attend these events are focused on the ritual itself, with little consideration of their health needs<sup>15</sup>. The commitment of the audience member to these religious mass gatherings should not be underestimated. These persons may display behaviour that might range from the passively devout to the aggressively fanatical and everything in between<sup>16</sup>. Understanding the cultural elements of what already exists within the event and what is brought to the event by the audience are important for predicting likely behaviours and assessing risk.

During many religious festivals in India, fireworks are used to celebrate the occasion; the Chaharshanbe is one such event. Fire is integral to the celebration, as it is used to scare away evil spirits and is an essential part of the event<sup>17, 18</sup>. Therefore the risk of burns is high, especially for young males who seek blessings for their families. Burn injuries are common and accepted by the audience as part of the event and considered good luck. Most common injuries occur to the hands and eyes<sup>14,17,18</sup>. In the excitement and chaos of this type of event it is not always possible to prevent people getting burnt, yet it is possible to plan to treat this type of injury if it is known to be common for this event. For example, having first aid equipment specifically for burns (for example appropriate salves and ointments) is important as well as ensuring running water is available.

Perhaps the most famous religious is the Hajj, followed by World Youth Day and the Catholic Jubilee where devotees travel great distances<sup>19,20,15</sup>. An important aspect of these events is the requirement of the audience to undertake a pilgrimage over long distances. In addition the final ritual/rituals are performed no matter what age or general health problems participants may have prior to commencing. Pilgrimage is quite taxing on the body as people may be required to walk long distances. At the Hajj participants are required to wear open sandals, therefore foot injuries are common, as are burns to the soles of the feet, and minor cuts and bruises from falls<sup>20,15,22</sup>.

Physical and heat exhaustion, sunburn, and sunstroke are all conditions common at these events<sup>20,15,22</sup>. However, these injuries are minor compared to those that can occur with a large influx of people; these being the increased risk of communicable diseases<sup>21</sup>. When pilgrims of religious mass gatherings arrive at an event, they may have crossed borders, caught infectious diseases and now be carriers of illness<sup>20,15,22</sup>. For example, pilgrims at the last Catholic Jubilee event suffered from a gastro-intestinal disease due to Giardia contamination<sup>19</sup>.

At World Youth Day, the risk of influenza and its transmission are high. Within the prevailing culture of the event of sun, prayer and friendship, health is not foremost in the minds of young people as they are focused on 'in the moment' aspects of being at the event<sup>20</sup>. Even with evidence of influenza at these events, hospital admissions are often low and this may be attributable to the young audience feeling healthy enough to overcome the infection and not attend hospital for treatment. Additionally low admissions may be a result of the audience being so engaged in the event and the sense of community there that they are loathe to leave the event site until such time as their illness disables their ability to continue to enjoy or participate in the event<sup>20</sup>. In these mass events exposure to disease can be tempered through hand washing and

universal precautions<sup>22,21,15</sup>. Further safety measures including vaccination, hydration, and knowledge of the conditions awaiting the pilgrim are vital for the event manager so that planned on-site care can be set up around these issues.

Other religious festivals such as the Ram Janki in India report many deaths from human stampedes<sup>23</sup>. Stampedes are often due to zealous followers trying to get through narrow gates to take part in the celebration, and lack of egress and access can led to many deaths. Despite these risks to health Yeolekar and Bavdekar<sup>24</sup> claim that religious festivals are important in helping to further develop community bonds, keep indigenous culture alive and vibrant, and bring cheer and happiness to families and societies<sup>24</sup>. As these rituals and attendance at these events are part of their faith, audiences risk their health by performing these rituals regardless of their age, gender, and general health, leading to further complications. Additionally pilgrims from lower socioeconomic groups may have limited access to medical care and can suffer long term from injuries sustained at events. For example, most of the people who travel to Mecca are from resource poor countries that do not provide vaccines against infectious diseases, increasing the risk health of others around them due to crowded circumstances<sup>16</sup>.

Being Part of a Tribe

Like religious festivals, sporting events are important as they reinforce community cohesion and the enhancement of an individual's sense of well-being. Sporting events also enhance national pride and a sense of belonging through supporting a team or club<sup>25,26</sup>. Many of these events become a space where people seek to enjoy large amounts of food and alcohol, leading to overconsumption<sup>27</sup>. Understanding that this type of activity is part of the attendance at many sporting events is necessary for appropriate event risk management and the mitigation of the

immediate and dire health effects this behaviour can lead to. Even though the event is only a trigger many spectators suffer heart attacks due to smoking, fatty foods, overeating, excess salt, alcohol, illicit drugs and physical exertion<sup>28,27</sup>.

Clearly, audience members bring the state of their health with them to the event, but fans continue to consume fizzy drinks, burgers and hot dogs which may exacerbate any underlying health issues<sup>27,7</sup>. This behaviour coupled with the stressors related to their physical and emotional engagement with the sporting contest as a spectator (for example, yelling cheering, shouting, jumping up and down, getting angry and upset, etc.) is a potent combination that involves a range of risks for the audience member<sup>24</sup>. In this type of scenario on-site care staff need to prepare for conditions such as heart attacks, indigestion and the effects of alcohol.

'Mega' events like the Football World Cup have a culture all of their own that attracts large scale attendance and interest<sup>29</sup>. This interest, when translated into very large numbers of people travelling from all over the world, brings with it an increased risk of communicable disease infection. As well as the travel risks, there is also evidence of unhealthy and antisocial behaviour at these events, for example, binge drinking, unsafe sex and violence<sup>30</sup>. People who travel to these types of mega events, such as the football World Cup, are often very passionate sports fans. The level of excitement generated gives an indication of the emotional and physical investment people make when attending such an event. For example Kelly, Windsor, Delaney and Maguire<sup>31</sup> reported that at the 2002 World Cup in South Korea/Japan reported high rates for depression and anxiety amongst spectators. They also reported high psychiatric referral rates related to alcohol misuse. This type of finding tells event planners that spectators at this event may need access to counselling services. Event volunteers can provide such information, and

websites and contact numbers can be displayed on screens during the event so that spectators can access these services at their discretion.

As well the effects of depression, passionate sports fans can undergo 'spectator stress' that can trigger cardiovascular events. In these environments defibrillators are a must. However if the event planner considers that people are going to misuse alcohol, get 'over excited', and ride the emotional highs of wins and losses, then can build in infrastructure at the event to support them. Strategies such as crowd care were implemented at the Polish World Cup to good effect. In addition to chill out zones, with no alcohol allowed, qualified counsellors and warm beverages provide a supportive environment for the audience. Roshchin and colleagues<sup>32</sup>, reported that strategies such as these were effective in supporting spectators. In addition these venues can provide pamphlets and brochures with QR codes with links to support services in that town or region that audience members can seek on their own. These types of strategies can lead to the overall public health of the event.

Other health issues commonly associated with the World Cup and the Olympic Games is a segment of the audience attracted to the event who utilise the services of sex workers<sup>30</sup>. The cultural predisposition of an audience that drinks (often to excess) and that travels from outside the region where the event is hosted creates a public health risk related to Haemophillus influenza A and HIV transmission (audience member to sex worker and vice versa). Here condom use and hand washing are important, along with screening of sex workers to ensure they are clean prior to major events. Recently in Brazil the culture nuances of underage prostitution came to light with the expected influx of thousands of people during the World Cup<sup>33</sup>. Even though Brazil does have a large underage sex trade it is not legal, so as well as the health care

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aspects of unprotected sex it was also important to inform people coming into the community that engaging in some activities can be against the law.

Alcohol consumption is closely associated with many sporting events and American Football is no exception<sup>34</sup>. Merlo has found that a 'no drinking' policy or dry zone can lead to the practice of 'tailgating' (where you drink from the trunk/boot of your car) prior to the event<sup>34</sup>. Studies on Celtic football in the United Kingdom have also found that the ingestion of excessive alcohol leads to the majority of presentations at medical facilities at those events.

#### **Discussion**

Event organisers intend their events to be positive experiences and to have meaning for those who attend. Therefore continual vigilance to improve public health effectiveness and efficiency must become best practice at mass gathering events. Primary interventions such as immunisations, running water, soap and shade are important aspects of pre-event planning. However public health planners need to go one step further and acknowledge the motivations of attendees at events to craft health messages and interventions that will reduce the number of injuries and illnesses obtained at mass gathering events. Surveillance at large mass gathering events have focused on communicable diseases with little understand of what motivates the audience to attend the event. Systems must be sensitive enough to detect potential behaviours of the audience, for example the use of fireworks or a clash between two tribes during a sporting match. Relying on the audience or event goers to act safely and responsibly at all times is short sighted when event goers can be supported to stay safe and healthy at an event.

Hutton's work at schoolies festivals, where young people celebrate the completion of high school, shows that when young people go to an event with the intent to drink with their

friends; that is exactly what they do<sup>28</sup>. This type of insight into motivations has been used to put in place strategies to support audience members attending these events. For example free water; chill out areas that are alcohol free, and peer-led support can help to reduce the rate of intoxication and increase the safety of participants at these events<sup>35,36</sup>.

In all three of these mass gathering modalities we see that in all events the ability to wash hands and have running water is a must. As with outdoor events, shade and free sunscreen is also important. What audience motivations do, is to bridge the link between medical practices such as on site care and public health interventions such as crowd carers, free water, and chill out zones. Once particular harm minimisation strategies are put in place, these can be standardised to be included in the basic infrastructure of each event

#### **Conclusion**

The aim of this opinion piece is to begin a conversation acknowledging that audiences come to mass gathering events with an expectation of how they will behave at an event (motivations). The paper has argued that by understanding the motivations, and potential behaviours of the audience at an event, event planning can be enhanced to improve the wellbeing of the audience. Too often there is an expectation that audiences will comply with set rules and not act outside societal boundaries at events. This belief can be a mistaken one, as with freedom of choice comes freedom of action, and staying healthy or being safe is not always at the forefront of people's minds. Through understanding the motivations of the audience, event organisers and onsite medical teams, can plan and prepare interventions to promote harm reduction and maximize safety at each event. The ultimate aim of developing this understanding is to better

inform the health promotion and public health messages that can be developed for a particular

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Table 1. Motivations, Health Promotion and Strategies – Outdoor Music Festivals

Event	Motivations	Health Problem	Planning/Health Promotion Strategies
Outdoor music festivals	0 1	Trauma from drinking, Violence sexual and physical from drinking Dehydration Foot injuries from Moshing/walking around	Running water in bathrooms

Electronic	Socialising with	Taking drugs	Hand washing with soap
dance festivals	peers and	prior/during the event	Running water in bathrooms
	socialising with	Dancing for long	Hand Washing reminders
	friends	periods of time	Free Water
	To see favourite	"Shredding' prior to	Pill Testing
	band	the event	Chill out rooms
	Dance with friends	Dehydration	Health Messages;
		Foot injuries from	"Look after your mates "
		Moshing/walking	"Stay hydrated"
		around	"Wear shoes that you can dance in"
			Crowd Care

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401 **Table 2.** Motivations, Health Promotion and Strategies – Religious Festivals

Event	Motivations	Health Problem	Planning/Health Promotion Strategies
Најј	Deep	Infectious diseases,	Immunizations
	religiosity	Influenza A	Hand washing with soap
	Pilgrimage of	(H1N1),	and water
	faith	Tuberculosis	Running water
	Commitment	Meningococcal	Hand Washing
	to Mecca	Hepatitis	reminders
		Sunburn	Free Water
		Dehydration	Shade
		Crushing	Sun cream
		Risk of Stampedes	Controlled entry/exit if
			culturally appropriate

World Youth	Deep		Hand washing with soap
Day	religiosity		Running water
	Pilgrimage of	Giardia	Hand Washing
	faith	Minor Injuries to feet	reminders
		Sprains/strains	Free Water
		Sunburn	Shade
		Dehydration	Sun cream
			Appropriate Footwear
			Hydration
			Controlled entry/exit if
			culturally appropriate
		CV <sub>A</sub>	
Chaharshanbe	Deep	Burns to hands and feet	Running water
Soori	religiosity		Protective eye wear
	Pilgrimage of		Water available
	faith		First aid for burns
	Blessings		Controlled entry/exit if
			culturally appropriate
Ram Janki	Deep	Stampedes Crushing	Wider gates
	religiosity		Controlled entry/exit if
	Pilgrimage of		culturally appropriate
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faith Blessings

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405 **Table 3.** Motivations, Health Promotion and Strategies - Sporting

Event	Motivations	Health Problem	Planning/Health Promotion Strategies
World Cup Soccer	Sporting fans Drinking with peers Sex workers	Heart attacks, Trauma as a result drinking, Violence sexual and physical from drinking Infectious diseases, HIV, Hepatitis	Hand washing with soap Running water in Bathrooms Hand Washing reminders Condoms Pastoral Care Chill out zones – alcohol free
Olympic Games	Sporting fans Drinking with peers Sex workers	Heart attacks, Trauma from drinking, Violence sexual and physical from drinking Infectious diseases, HIV, Hepatitis	Hand washing with soap Running water in Bathrooms Hand Washing reminders Distribution of free Condoms Pastoral Care Chill out zones – alcohol free
College (Amercian) Football	Drinking with peers Watching their team play/win	Violence sexual and physical from drinking	Dry Zones Chill out Zones Providing free water Alcohol venues to open at the same time as food venues Pastoral Care Chill out zones – alcohol free