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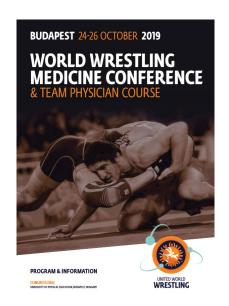


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Special Section: Summaries of Presentations from the Wrestling Medicine Conference & Wrestling Team Physician Course, United World Wrestling, Budapest, October 24-26, 2019

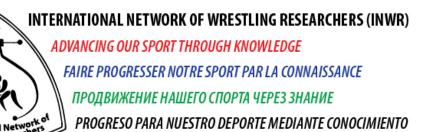
WRESTLING INJURIES; FACTS AND FIGURES, PAST, PRESENT & FUTURE

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WRESTLING INJURIES; FACTS AND FIGURES, PAST, PRESENT & FUTURE

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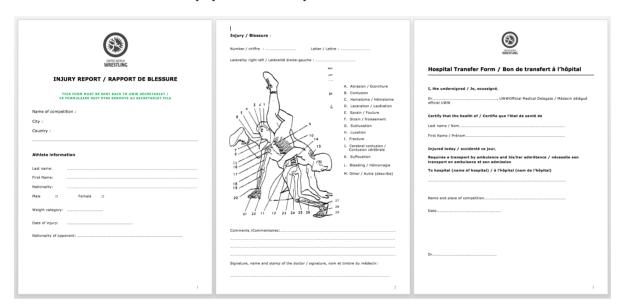
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INJURY; is a barrier for sport participation and development. Therefore, sport organizations need to have a good understanding of nature, specifications, patterns, risk factors, and mechanisms of injuries in order to prevent sport injuries, and promote the sport.

UWW Wrestling Injuries Surveillance Program

- Started at 2004 Athens Olympic Games
- · By direct observation and recording all injuries during competitions
- UWW-MC cloud-based injury surveillance system started from 2016 Rio



Information

- severity, type, site, mechanism of Injury
- · injury vs. style, sex, age, weight class, timing

Definitions:

Injury

Any musculoskeletal or soft tissue complaint incurred during the competitions, that required medical attention regardless of the consequences with respect to absence from sport.

Injury Incidence

Number of new occurrences during competitions:

- number of injuries / 100 athletes
- number of injuries / 100 match

Injury Severity

- Mild Injuries fully treated on the mat.
- Moderate injuries treated primarily on the mat but needing more attention after the competition, by which injured athletes were referred to the venue clinic.
- Severe injuries resulted in termination of the match; injured athletes were referred to the hospital.

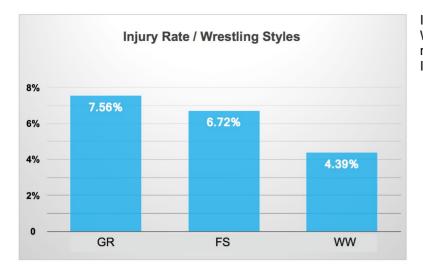
2016 Rio Wrestling Competitions UWW-MC Injury Surveillance Study

Results

Overall incidence:

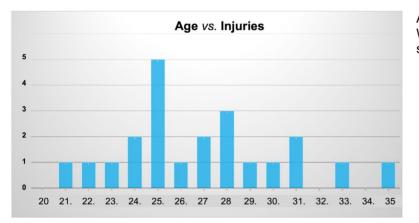
22 Injuries in 352 Athletes - 410 Matches

- 6.2 injuries per 100 athletes (6.2%)
- 5.4 injuries per 100 matches (5.4%)



Injuries vs. Styles Women's freestyle had the lowest injury rate Injury rate: 7.1% in men; 4.4% in women

Age vs. Injuries Wrestlers between 24-28 years old showed more injury.



 $\label{localization} \hbox{Injuries vs. Weight-Class} \\ \hbox{More injuries were observed in the middle-weight categories.}$

weight (kg)	iiijui y#
48	2
58	1
59	1
65	1
66	2
69	1
74	4
75	4
85	1
86	1
97	2
98	2

Weight (kg) Injury#

Injury Type	%
Skin Laceration	41
Nose Bleeding	18.2
Joint Dislocation	13.6
Ligament Sprain	13.6
Skin Contusion	9
Strangulation	4.5

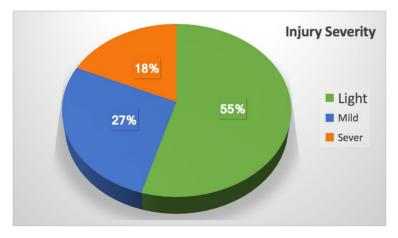
Injury Types

The most common injury type was skin laceration and contusion (54.5%) due to direct contact.

Injury Site	%
Forehead	22.9
Eyebrow	13.6
Nose	18.2
Chin	9.1
Head	4.5
Shoulder	13.6
Knee	9.1
Neck	4.5
Elbow	4.5

Injury Sites

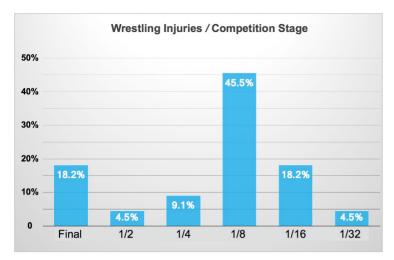
The most common sites of injuries were the face and head (72.8%) followed by shoulder and knee joints.



Injury Severity

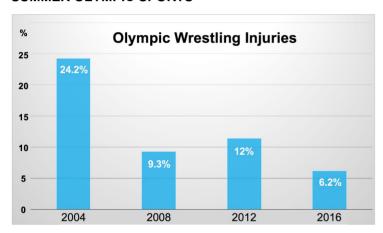
54.5% of all injuries were classified as mild, 27.3% as moderate and 18.2% as severe.

• 4 matches were terminated



Injury Timing 45.5% of all injuries occurred at 1/8 final; 18.2% of injuries were recorded at the Final matches.

WRESTLING INJURY RATES OVER LAST 4 OLYMPIC GAMES & IN COMPARISON WITH OTHER **SUMMER OLYMPIC SPORTS**



Wrestling Injury Rates, 2004 - 2016 Olympic Games

Injury Rates at 2008, 2012 and 2016 - IOCMC Studies





	Overall Inj. Rate	Wrestling Inj. Rate	U
2004 Athens	-	-	
2008 Beijing	9.6%	9.4%	
2012 London	12.9%	12%	
2016 Rio	9.8%	5.5%	

UWW Inj. Rate
24.2%
9.3%
11.4%
(22) 6.2%

2016 Rio - Injury Rate **Wrestling Comparing Other Summer Olympic Sports**



Sports with Higher Injury Rates:

BMX Cycling
Rugby
Hockey

Boxing
Football
Judo

 MTB Cycling Handball
Athletics

 Taekwondo Gymnastics
Diving

 Water polo Weightlifting
Badminton

Conclusions

- No catastrophic injury was recorded during 2016 Rio Olympic wrestling competitions.
- Olympic wrestling injury rate shows a reducing trend.
- The rate of joint dislocations is still high.
- Wrestling compares favorably with other sports on the Olympic program.