Online Eventing Risk Management Seminar
23 January 2021
• Coronavirus related to Risk Management

• Body Protectors and other protective equipment

• Eventing Annex D – Medical Coverage

Dr Mark Hart (USA), Chair of FEI Medical Committee
Coronavirus related to Risk Management
Covid-19 Update

What is SARS-CoV-2?
- Evolution of “Coronavirus” variants
- Animal-human vector transmission
- SARS, MERS
- Genomic mapping

Covid-19 Incidence
- Currently has infected over 100,000,000 people globally with greater than 2,000,000 deaths (likely an underestimate especially with infections)
- Why is this particular virus causing a worldwide pandemic (“R” value)?
- Is Covid-19 more deadly than the prior global pandemic of 1917-18 (relative vs absolute numbers)

New Covid-19 genetic mutations
- UK variant (B 1.1.7)
- South African (1.351)
- Brazil (P.1)

Predicting the Covid-19 pandemic course in 2021
# Symptoms of Covid-19

## Symptoms of COVID-19, cold, influenza

<table>
<thead>
<tr>
<th>Symptoms</th>
<th>COVID-19</th>
<th>Influenza (Flu)</th>
<th>Cold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry cough</td>
<td>+++</td>
<td>+++</td>
<td>++</td>
</tr>
<tr>
<td>Phlegmy cough</td>
<td>-</td>
<td>-</td>
<td>+++</td>
</tr>
<tr>
<td>Fever</td>
<td>+++</td>
<td>+++</td>
<td>-</td>
</tr>
<tr>
<td>Loss of smell/ taste</td>
<td>+++</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Runny nose</td>
<td>++</td>
<td>++</td>
<td>+++</td>
</tr>
<tr>
<td>Sneezing</td>
<td>-</td>
<td>-</td>
<td>+++</td>
</tr>
<tr>
<td>Sore throat</td>
<td>++</td>
<td>++</td>
<td>+++</td>
</tr>
<tr>
<td>Shortness of breath</td>
<td>++</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Headache</td>
<td>++</td>
<td>+++</td>
<td>-</td>
</tr>
<tr>
<td>Body aches</td>
<td>++</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Exhaustion</td>
<td>++</td>
<td>+++</td>
<td>+</td>
</tr>
<tr>
<td>Diarrhea</td>
<td>-</td>
<td>+</td>
<td>-</td>
</tr>
</tbody>
</table>

+++ Frequent, ++ Sometimes, + Occasionally, - Rare, -- Not observed

Quelle: WHO, CDC
Covid-19 Mitigation Measures

• **Prevention Measures**
  • Masks, social distancing, avoiding groups (especially indoors) and hand washing

• **Covid-19 Testing**
  • Active infection = “contagious” (antigen vs PCR)
  • Prior infection = acquired immunity (antibody testing)

• **Evolving Medical Treatment of Covid-19**
  • Different disease in different people, unpredictable morbidity and mortality
  • Early, mid-stage and late treatment options
  • “Long-haulers” syndrome

• **Covid-19 Vaccine Development**
  • Principles of immunizations (safety and effectiveness)
  • Unparalleled development timeframe for Covid-19 vaccines
  • Currently available vaccines Pfizer, Moderna, Oxford-AstraZeneca, Johnson&Johnson, Novavax China (2), Russia (2), India (1)
  • There are 20 additional vaccines in advanced Phase 3 trials worldwide
Pfizer vaccine
FEI Response to Covid-19

• Initial cancellation of all FEI Competitions worldwide


• Integrated World Health Organization public health and protocols and risk assessment tools to create equestrian specific to assist organizers
  • Assess feasibility/safety of holding competition event
  • Screen/exclude Covid-19 positive persons from entering venue
  • Organizational and venue structural mitigation measures
  • Recommendations/Education for all involved stakeholders of Covid-19 mitigation measures
  • Masks, social distancing, avoiding groups, hand washing
  • Monitoring compliance
  • FEI HQ/Board support for Covid-19 related modification of rules/policies to enhance safety

• What worked

• What didn’t

• What do we need to do to improve our Covid-19 Policy going forward in 2021
Covid-19 issues for Tokyo Olympics

• Local conditions in Japan
• Country specific Covid-19 infection rates
• Role of vaccinations
• Testing protocols
• Pre-departure, arrival, on-site
• Counter measure considerations
• Athlete/staff flow
• Spectators ??
• Accreditations/SACD (supplemental access control devices) to limit access
• Equestrian specific issues
• Small equestrian venue footprint
• Separate cross-country venue
• Issues with key support personnel (grooms, farriers, vets, judges, stewards, etc)
• Replacement protocols for athletes/staff
THANK YOU

QUESTIONS
Body Protectors and Safety Vest Research Issues
Equestrian helmet rating initiative  
(Virginia Tech Helmet research)

• Helmets are currently certified to international standards on a pass/fail basis

• Developing an Equestrian specific helmet rating system to supplement certification standards based on real-world injury scenarios and concussion risk for equestrian sports

• Equestrian Specific Issues
  • Horses weigh over 1,000 lbs (450 kg) and travel at speeds up to 35 mph (55 kmh) over obstacles
  • Riders head position is approximately 9 feet (2.7 meters) off the ground
  • Horse unpredictability
  • Low incidence but high severity head injuries
  • Linear and rotational head accelerations
  • Equestrian sports greatest contributor of all sports related Traumatic Brain Injuries (TBI’s)
  • 50% risk reduction in TBI’s with use of currently available equestrian helmets
Safety Vest Research Issues

• Conflicting research for effectiveness of air vests
• Use of protective vests in other disciplines (practices vs evidence)
Eventing Annex D – Medical Coverage
Eventing Annex D
(Medical coverage for FEI competitions)

• Specific guidelines are recommended but not mandatory until Jan 1, 2023 (Please refer to page 82 of the FEI Eventing Rules 2021 published under Eventing-Rules https://inside.fei.org/node/3822/)

• Medical Committee and Eventing Committee would appreciate all feedback on issues related to implementation of these new measures
THANK YOU

QUESTIONS