

Overviews of Asian Games Hong Kong Team Support

Frankie Siu
Senior Sport Dietitian (Hong Kong Sports Institute)



Hong Kong Sports Institute 音表語音學院





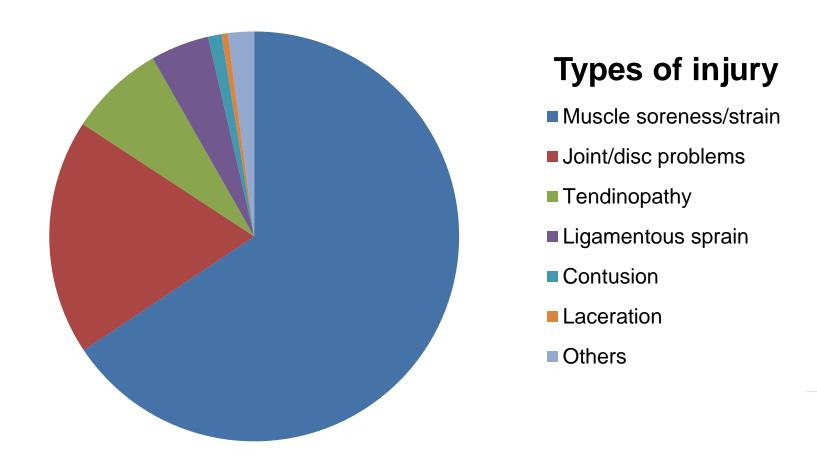
Roles of Elite Training Science & Technology Division (ETSTD) in Asian Games Support

- Different centres in the Elite Training
 Science & Technology Division play
 different roles in Asian Games support
 - Sports Medicine Centre
 - Scientific Conditioning Centre
 - Sport Biomechanics & Technology Centre
 - Sport Psychology Centre
 - Sport Nutrition & Monitoring Centre

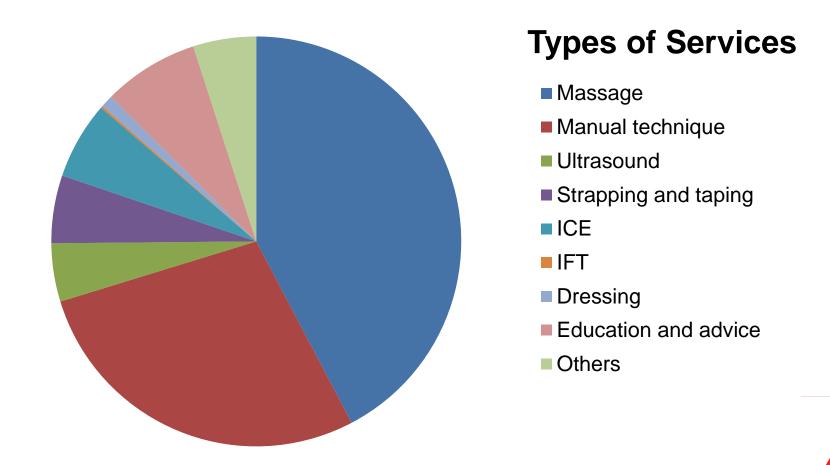


Sports Medicine Centre assigned 15
therapists (physiotherapy, Chinese manual
therapy and sports massage therapy) to
Jakarta and Palembang to support
athletes at both athletes' village and
competition venue











- Challenges
 - No enough ice provided in the hostel
 - Go to Athletes' dining hall to get extra ice
 - Too many furniture make difficult to set up the treatment room
 - Spend a lot of time to relocate the furniture to set up the treatment room



- In the preparatory phase of Asian Games, scientific conditioning centre closely worked with different coaches and centres within the ETSTD to develop and implement science-based strength and conditioning programmes designed to optimise athletes' performance
- In addition, due to extreme heat condition, scientific conditioning centre looked for different cooling strategies



- Cooling vest/garment
 - A reduction in core body temperature achieved through lowering skin temperature, effecting heat loss from core to skin





Cooling garment



Cooling neck wrap



Cooling Vest

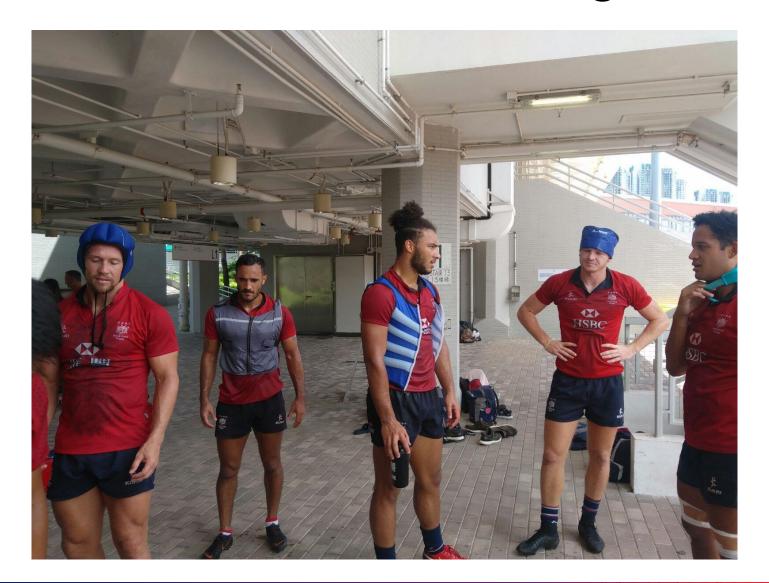


Cooling headband



Cooling sheet







- There were 2 strength and conditioning coaches to provide on-field support to badminton and table tennis teams during Asian Games
- Athlete's village: strength and conditioning training in the gym for preparing the games
- Competition venue: look after their warm up sequences to ensure all athletes are wellprepared for the competition and also recovery support such as active recovery or passive stretching with athletes after competition



Sport Biomechanics & Technology Centre

 Three sport biomechanists to provide on field support to cycling and athletics during Asian Games









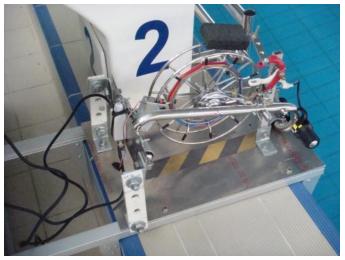






Swim Speed Measurement



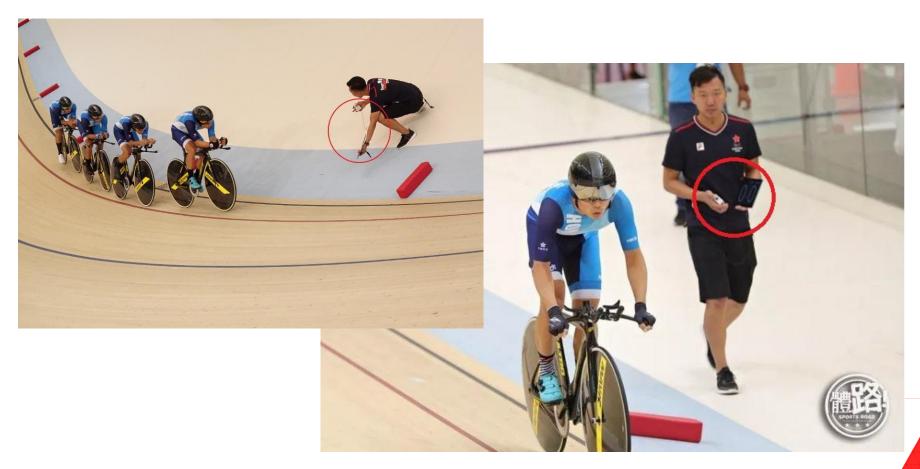








Timing Device in Track Cycling



(Source: Sportsroad)



Sport Biomechanics & Technology Centre

- Challenges
 - Poor signal at the competition venue that made difficult to send the video to coaches
 - Save in USB and pass it to coaches



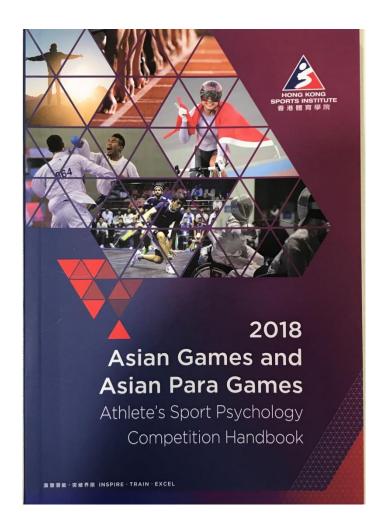
Sport Psychology Centre

- Four sport psychologists to provide onfield psychological service to athletes during Asian Games
- Individual and group consultation
 - Mental skills training and revision
 - Adversity coping strategy planning



Sport Psychology Centre

- Prior to Asian Games, SPC wrote and published an Athlete's Sport Psychology Competition Handbook and disseminated it to athletes and coaches who attended the Asian Games
- Consists of two parts
 - To illustrate competition psychology knowledge and theories through simple words
 - To guide athletes through quizzes and tasks to understand, think about and extract inspiration from these items and relate them to their own situations, so that athletes can integrate them into their preparation and adjustment





Sport Psychology Centre

Challenges

- Since 2018 Asian Games was held in 2 different cities, it's difficult to allocate sport psychologist to look after different teams at the same time
 - Use whatsapp or other communication app to communicate with athletes



- Composed of 2 different units
 - Sport biochemistry unit
 - Sport nutrition unit
- Sport biochemistry unit
 - Collect blood and urine samples to monitor athletes' training response and health status
- Sport nutrition unit
 - Based on the body composition, laboratory results, current diet habits and training program, sports dietitians provide individualized diet plan to athletes



- Prior to Asian Games, athletes come to SNM regularly to do body composition assessment (Inbody and DXA) and blood test to monitor their training responses and body composition
- Due to extreme heat in Indonesia, SNM did hydration test to athletes (particularly outdoor sports) to assess their sweat rate and provide individualized hydration strategies





- SNM also conducted different nutrition workshops to Asian Games athletes about nutrition concerns (food safety, competition and recovery nutrition, hydration, healthy snacks options nutritional supplements...) during Asian Games
- Food safety is one of the concerns in Asian Games
 - SNM purchased probiotics supplement and disseminated it to athletes and recommended to take at least 2 weeks before Asian Games in order to strengthen their gut health and immune system



- One sport dietitian travelled to Jakarta to provide on field support to fencing team
 - To ensure all fencers are well-hydrated and energy before and during competition





Foods Provided at the Asian Games 2018











Provided dietary advice (via whatsapp or messenger or one-one consultation at competition venue or at Athletes' Village)



Challenges

- Even though the organizer provided meals and snack at competition venue, the food that provided may not be suitable for athletes to consume during competition
 - Prior to Asian Games, a series of nutrition education was given to athletes (travel nutrition, healthy snack options for competition and recovery)
 - Prepared some suitable snacks and provided to athletes during competition



Asian Games Achievement

- At the 2018 Asian Games, the Hong Kong team won a record-breaking 46 medals
 - 8 Gold medals
 - 18 Silver medals
 - 20 Bronze medals

