Aerospace Medical Support in Russia

Tara Castleberry, DO
Blake Chamberlin, MD
Richard Cole, MD
Gene Dowell, MD
Scott Savage, DO
I have no financial relationships to disclose.

I will not discuss off-label use and/or investigational use in my presentation.
Star City, Russia
Overview

- Role of Flight Surgeon at GCTC
  - Medical advocate for astronauts (U.S., CSA, ESA, JAXA)
  - Medical Care in GCTC - Illness/Injury
Current Duties

- Maintain and Operate Star City medical office
- Provide care to astronauts, family members/guests, civil servants, and contractors in Star City
  - Provide Continuum of Medical Capability
    - Urgent Care Needs
    - ATLS/ACLS Capability
    - Medical Evacuation
- First U.S. physician responder for emergency landings
“Portable Equipment”
Hazardous Training Responsibilities

- Hydrolab
- Centrifuge
- Soyuz Trainers
- EVA Stand
- Zvezda Vacuum Chamber
- Zvezda Suited Seat Test
- Chkalovskiy Vacuum Chambers
- Water Survival (Sochi or Sevastopol or Hydrolab)
- Winter Survival (Rousa or GCTC)
- EVA Support from MCC (TsUP)
Hydrolab

Moving Floor

Hyperbaric Chamber
Centrifuge

TsF-18

TsF-7
Building One

Soyuz Trainer

Stand Run
Zvezda
Hazardous Training Responsibilities

Water Survival

Winter Survival
Chkalovskaya

- EVA hatch practice
  - Crew in EVA suit practices hatch opening at near vacuum
- ISS leak isolation
  - Crew practices Russian segment response to ISS depress.
Landing Support
Realities of a Potential Hazardous Training Mishap

- Russian and American FS will work together
  - Determine what medical capabilities are available and which facilities are needed
  - We support and attempt to implement our EMS plan as soon as possible/necessary
Questions?
Back-up Slides