EXPLORATION
CLINICIAN WORKING GROUP

NASA Human Research Program
Investigators Workshop
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Overview

• Why is this group necessary?
• Membership and structure
• Information exchange
Assessment, prioritization and technical direction for the Exploration Medical Capabilities Element
Element Scientist

- Hyperbaric Medicine
- Internal Medicine
- Ethics
- Critical Care
- Behavioral Health
- Engineering
- General Surgery
- Audiology
- Pathology
- Ultrasound
- Aerospace Medicine
- PM&R
- Wilderness Medicine
- Nursing
- Pharmacy
- Family Practice
ECWG Tasks

- Create a forum for discussion
- Provide written technical direction to projects; archive
- SE&I Interface
Membership / Structure

• Multidisciplinary
  – Physician (Ops or research), Pharmacy, Nursing, Engineering

• Meeting 1-2 times/month and as needed

• Agenda driven by priorities set by Element Scientist
Feedback

Clinician inputs are personal, professional opinions based upon clinical and operational expertise

Collected via:

– Informal face to face
– Electronic surveys – anonymized
Feedback

Clinician Inputs are NOT:

– formal positions of other groups/orgs
– endorsement or approval for a project
Formal ECWG Feedback

- Need for clinical input identified
- Feedback collated
- ECWG presentation
- Package delivered and interpreted by Element Scientist
- Feedback gathered (informal/formal)
- Report created, signed by Element Scientist and released to project team
- Report archived
ELA Example

• Seeking traceable clinical position on the list of proposed analytes for exploration class missions-
  – ID missing or unnecessary analytes
  – Provide guidance on prioritization of analytes

• Feedback from Element will be used to help prioritize and tailor work in the face of potential impacts to funding over time
Date of Report: 24 Oct 2016

Title of Project requesting Element clinical position: Exploration Lab Analysis (ELA), GRC

Summary of Request: ELA is requesting a traceable clinical position on the list of proposed analytes for exploration class missions, identify missing and/or unnecessary analytes and provide guidance on prioritization of the analytes. Feedback from the Element will be used to help prioritize and tailor work in the face of potential impacts to funding over time.

Element Technical Position:

Prioritized laboratory values for the Element are grouped into required and desired categories.

**Required Laboratory Assays:** Sodium/Potassium/Creatinine/Glucose, White Blood Cell Count, Hemoglobin AND/OR Hematocrit, Platelets, Abs neutrophil, Abs lymphocyte, Urinalysis, ALT/ALP.


**Ideal sample collection** – capillary stick.

**Acceptable sample collection** – venous blood draw.

Element Scientist Signature ____________________________ Date: 11/10/2016
ECWG Report Components

• Element Technical Position
• Methods
• Appendix
  – Results of surveys, collated informal feedback summaries
  – Survey Histograms
  – Participants in information gathering exercises
  – Element Scientist notes (if needed)
Informal ECWG feedback

- Informational update required for clinicians
- ECWG presentation
- Feedback gathered (informal only)
- Meeting summary created and archived
- Summary archived
Gap 14 Example

Informational briefing on new Gap

– Informal conversation intra/post presentation informs clinicians of direction for the Element in defining a new gap

– Provides opportunity for Element Scientist to hear from clinician stakeholders if there are clinical concerns or potential pitfalls identified
What if my project needs more?

If clinician need is greater than what can be obtained in one presentation,

• Talk with Element Scientist about needs
• Can assign a clinician to your project for more intensive feedback as an adjunct to the ECWG
Summary

ECWG Role

• Clinical advisor to Element Scientist

ECWG Purpose

– Help inform technology and system ‘medical usefulness’
– Provide direct interface with SE&I teams