Genomics of Exertional Related Events (EREs) Associated with Sickle Cell Trait

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**Our Goals:**
Collect scientific data needed to guide more evidence-based and prudent treatment and policy decisions that impact the Sickle Cell Trait (SCT) population in both civilian and military sectors.

**Our Plans:**
Enroll African American men and women between ages 18-80 who have SCT:

- **300 SCT carriers who have had Exertional-Related Events (EREs):**
  - Exertional Rhabdomyolysis
  - Exertional Heat Stroke
  - Exertional Collapse

- **150 SCT carriers who have never had EREs despite their rigorous exercise regimen**

Enroll 150 immediate family members of these SCT carriers, with and without ERE

Identify and compare genetic variants between SCT carriers with ERE and without ERE

**How you can contribute:**
Participate by donating blood, completing a questionnaire, and providing brief medical history

**What we will do:**
Extract genetic material
Screen whole genome

**What we expect to find:**
Genetic variants associated with EREs in SCT carriers that will help us develop markers to determine who may be susceptible to EREs prior to an event.

**Contact CHAMP, USU for further details.**
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