

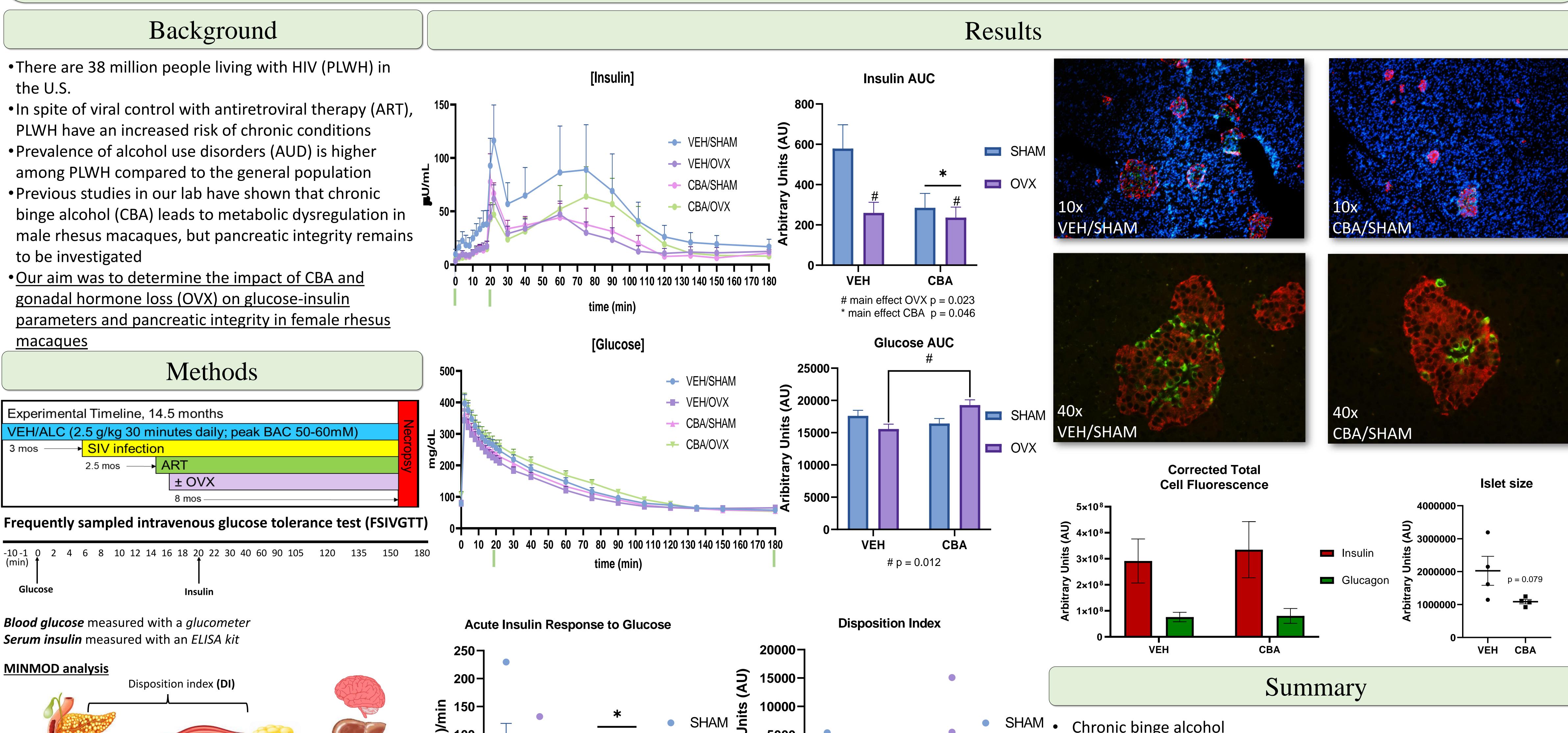
Chronic binge alcohol & gonadal hormonal loss impair glucose-insulin dynamics in SIV-infected female rhesus macaques

Department of



School of Medicine

Ari Saravia, Curtis Vande Stouwe, Patricia Molina, Liz Simon LSU Health Sciences Center, Department of Physiology



OVX

CBA

-5000 -

-10000

VEH

CBA

Immunohistochemistry of formalin-fixed, paraffin-embedded pancreatic <u>tissue</u>

00-

-50-

VEH

* main effect CBA p = 0.03

Glucose effectiveness (Sg)

- Novus mouse anti-insulin (1:1000) \rightarrow Goat anti-mouse 568 (1:1000)
- CST rabbit anti-glucagon (1:1000) \rightarrow Goat anti-rabbit 488 (1:1000)

Acute insulin response to glucose (AIRg)

- Chronic binge alcohol
 - ↓ the acute insulin response to glucose
 - does not alter basal pancreatic insulin or glucagon expression
 - Gonadal hormone loss alters insulin and glucose levels as determined by FSIVGTT

This work was funded by National Institute on Alcohol Abuse and Alcoholism (NIAAA) and the National Institute of Health (NIH): 5 T35 AA 21097-8, P60 009803