Study Design

9/8/2015 10:12:57

Primary metabolism (GCTOF MS)

Complex lipids (CSH-QTOF MS)

Biogenic amines (HILIC-QTOF MS)

human kidney (22)

80 to 100 mg

Sample Prep:

Our samples are renal tissues samples. These are from kidneys that were deemed unsuitable for transplantation and discarded. After being discarded these kidneys were brought to our lab where we conducted normothermic machine perfusion on them, where they were perfused with a blood based perfusate to analyze function. The samples are core needle biopsies taken by a surgical instrument. The samples were then snap frozen in liquid nitrogen and stored in -80C till analysis.

Treatment:

3 x 2-7

Human 8A/B, 9A/B, 10A/B, 11A/B were perfused with either a Whole Blood perfusate or a Packed Red Blood Cells. We had previously sent samples from this group but we want to analyze other time points from this group. Group A was perfused with a whole blood perfusate while Group B was perfused with a packed red blood cell perfusate.

Human 29 was perfused with a whole blood perfusate and this is from a pediatric patient. We are trying to compare young and old donors and we had previously submitted other pediatric patients.

Huma 28A and B were perfused with a packed red blood perfusate. 28A was given Furosemide (a diuretic) to test urine output with acute kidney injury, Human 28B was not given the Furosemide since it is a control.

Interest:

We are looking for pathways of interest pointing to ischemic or inflammatory changes.