

Update on CVC Collaborations, Supplemental Projects and Team Project 3

Randall Brand, MD

Updates

- **Collaborations**
- **Pancreas Cyst Reference Set**
- **Pancreas Cancer Reference Set**
- **Pancreas Cyst Biomarker Validation Set (Singhi)**
- **Team Project #3**

Collaborations

SITE	SPECIMEN TYPE
Ambry Genetics	DNA
Batra (UNMC)	Blood, pathology, urine
Brentnall	Blood
Craik	Cyst fluid
Goggins	Pancreatic juice
Haab	Blood, pathology
Hanash	Blood
Liu (NDSU)	Blood
Lokshin	Urine, Blood
Schmittgen	Blood
Sen	Blood

Collaborations

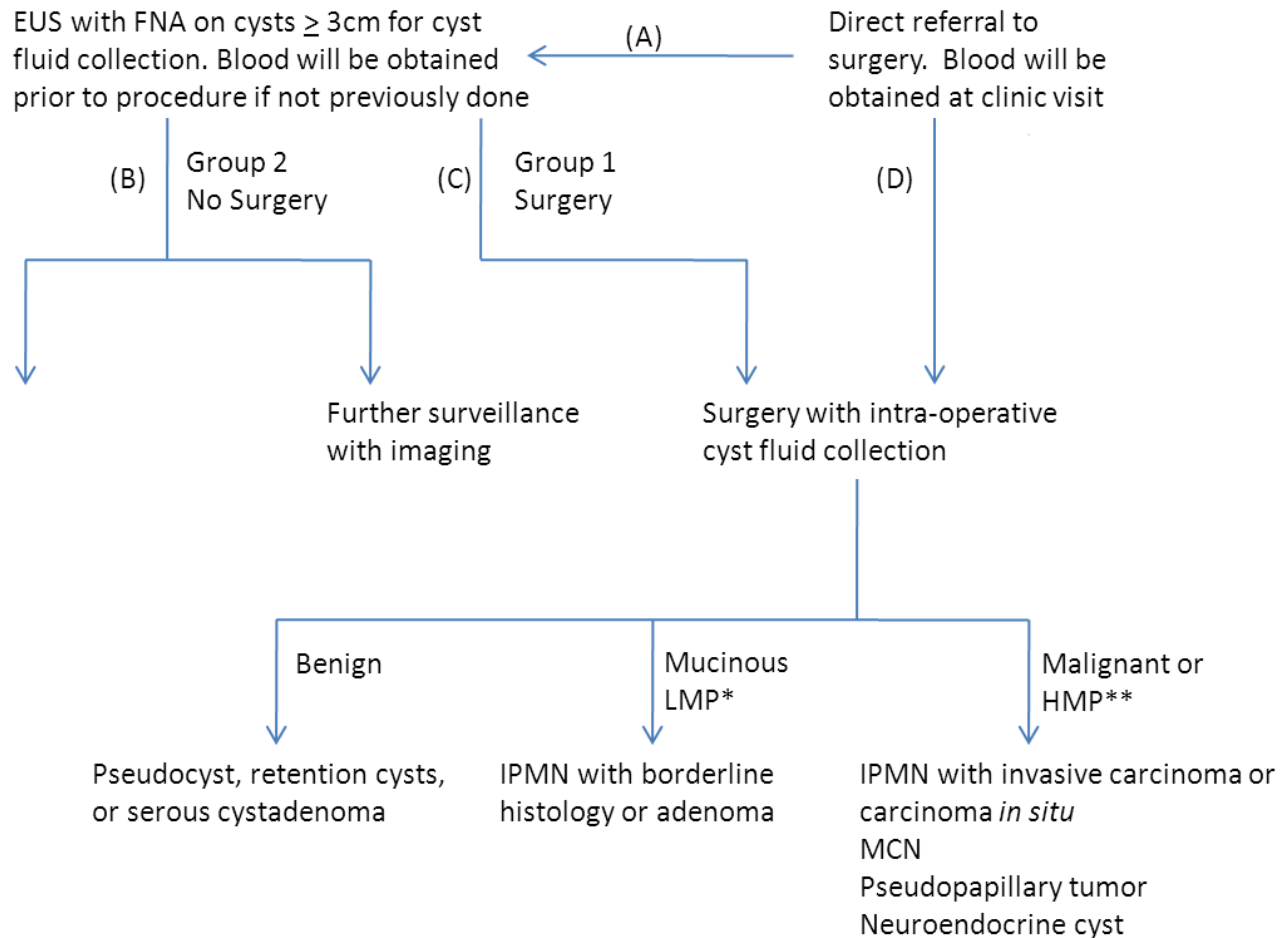
SITE	SPECIMEN TYPE
Immunovia	Blood
Freenome	Blood
Pan (UT Houston)	Blood
Choi (NDSU)	Cyst fluid
Goel (City of Hope)	Pancreatic juice
Tuveson (Cold Spring Harbor)	Blood
Diamandis (Mt. Sinai)	Blood

Pancreas Cyst Reference Set

EDRN Cyst Reference Set Participants

- **University of Pittsburgh (Brand)**
- University of Michigan (Kwon)
- Memorial Sloan Kettering Cancer Center (Allen)
- Thomas Jefferson University (Winter)
- **Stanford University (Park)**
- Vanderbilt University (Merchant)
- Mt Sinai Medical Center (DiMaio)
- Moffitt Cancer Center (Vignesh)
- University of Nebraska Medical Center (Singh)
- Johns Hopkins University (Lennon)
- Georgetown University (Smith)
- St. Michael's Hospital (Marcon)
- **UCSF (Kirkwood)**
- **Ohio State University (Conwell)**

Figure 2. Overview of Study Design



*LMP= low malignant potential

**HMP= high malignant potential

Biospecimen and Data Collection

- Blood samples before EUS or planned surgery per SOP
- Questionnaire with EDRN CDEs
- EUS imaging results
- Operative and pathology findings
- Cyst fluid collected at surgery and/or EUS

Current Status of Reference Set

- Total enrollment Goal of 450 patients
 - 192 out of the goal of 180
 - 255 out of 270 surgical resections
 - 176 Low malignant potential or benign (180)
 - 79 high malignant potential or malignant (90)

Three surgical resections are pending

PANCREAS CANCER REFERENCE SET

❖ 242 blinded samples collected by NCI under EDRN program

DIAGNOSIS	SAMPLES	AGE AND DIABETES ADJUSTED
HEALTHY CONTROLS	58	53
CHRONIC PANCREATITIS	59	57
ACUTE BILIARY OBSTRUCTIONS	30	30
STAGE IA/IB/IIA	52	51
STAGE IIB	41	37
TOTAL CASES	240	228
TOTAL PANCREATIC CANCER	93	88

We are exhausting our previous reference set.
Do we use current CVCs to create another reference set?

Team Project (Year 4 and 5)

– Participants

- Brian Haab (VARI)
- Surinder Batra (UNMC)
- Sam Hanash (MDACC)
- Anna Lokshin (UPMC)
- Paul Lampe (FHCRC)

– Cohort Development

- Randall Brand
- Christine Decapite
- Brenda Diergaarde
- Ying Huang and DMCC
- Anirban Maitra
- Jo Ann Rinaudo

Specific Aims

- Aim 1: Assemble and distribute samples from pre-diagnostic cohorts
- Aim 2: Test the individual and combination markers that were suggested by the previous team projects in pre-diagnostic cohorts

Specific Aim 1

- Samples supplied from UPMC
 - PAGER study
 - PLuSS study (UPMC Lung Spore)
- PLCO and WHI Samples
 - Plans for joint application from the EDRN Pancreatic Collaborative Group

Pre-diagnostic UPMC Cohort

- All PDACs confirmed histologically
- Pre-diagnostic defined as 6 months to 36 months from date of PDAC diagnosis
- Unique matching of controls (compared to other pre-diagnostic studies)
 - Control diagnoses matched in PLuSS
 - Control diagnoses were matched to the diagnoses at the time of pre-diagnostic specimen collection (PAGER)
 - CP, AP, RAP, Extrahepatic biliary stricture or dilation, pseudocyst, IPMN
 - Whenever possible genetic diagnoses were also matched
 - Availability in some cases for paired pre-diagnostic and diagnostic specimens
 - Few cases have multiple pre-diagnostic time points.
- Total of 272 samples sent

Ancillary Studies

- 200 ul (100 ul aliquots) available for other investigators to study promising biomarkers
- Radiomics
 - On a subset of subjects (controls and PDAC cases) pre-diagnostic and/or diagnostic MRI and/or CT scans are available

Special Thanks!!

- Christine Decapite





5 minute Q&A

Chair/Co-Chair/NCI

feed Zoom Chat questions to presenter
and Track Time

NCI and Production Team

answer Chat questions not related to presentations
and use Slack