

The Effect of Pancreatic Endotherapy on Quality of Life in Patients with Chronic Pancreatitis

Samuel Han, MD, MS

PancreasFest 2019

CAPER Scholars Program

Objectives

- **CAPER Scholars Project**
- **Preliminary Results**
- **Future Goals**

Objectives

- CAPER Scholars Project
- Preliminary Results
- Future Goals

Background

- **Pain remains difficult to treat in patients with chronic pancreatitis**
- **Pancreatic endotherapy (PeT) offers a potential treatment option**
- **Most studies have focused on technical success and fail to capture patient-centered outcomes such as quality of life**

Specific Aims

Primary Aim: To assess the impact of PeT on quality of life in patients with chronic pancreatitis

Secondary Aim: Compare the different PET modalities in their effect on quality of life

- **Pancreatic duct stone lithotripsy**
- **Pancreatic duct stricture dilation and stenting**
- **Celiac plexus block**
- **Drainage/Necrosectomy to treat pancreatic fluid collection**

Methods

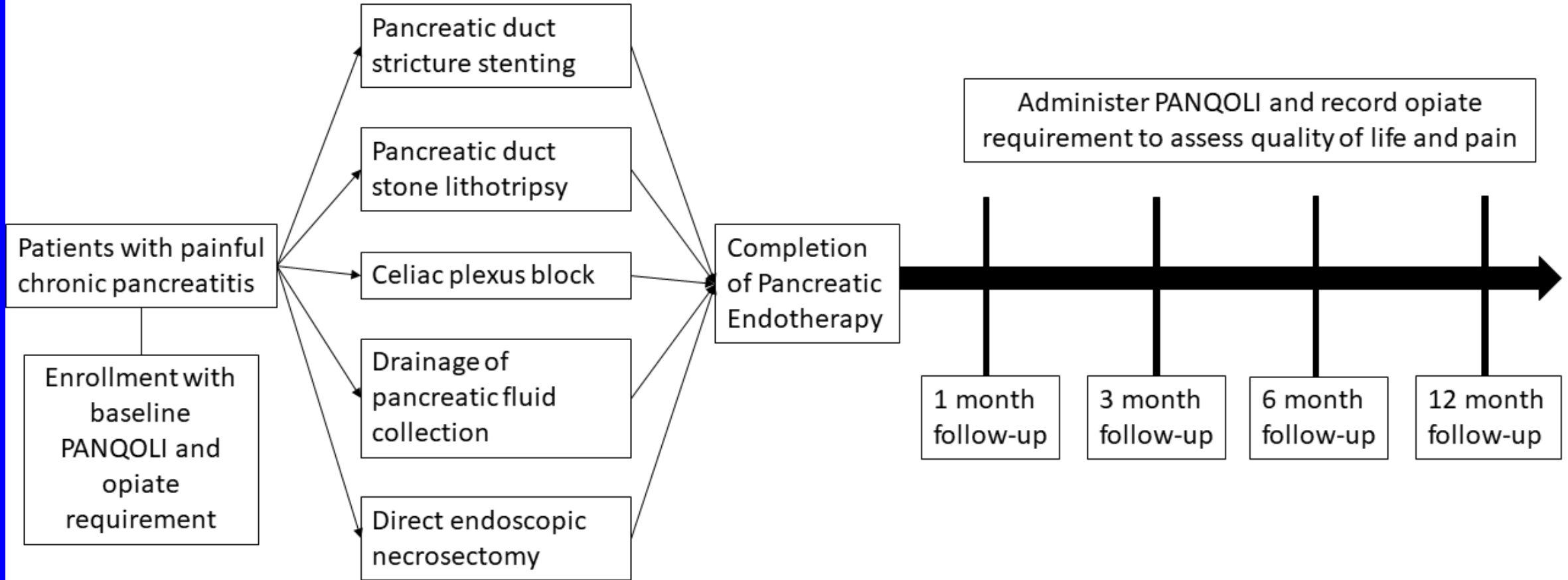
- **Single-center prospective single-arm clinical trial**

- **Inclusion Criteria:**

Patients with Chronic Pancreatitis referred for PeT

- **Exclusion Criteria:**

Patients who have undergone pancreatic surgery or previous PeT



Objectives

- **CAPER Scholars Project**
- **Preliminary Results**
- **Future Goals**

Preliminary Results

- **80 patients enrolled**
- **Celiac Plexus Block: 11**
- **PD Stricture Dilation and Stenting: 43**
- **PD Stone Lithotripsy: 12 standard, 8 pancreatoscopy-guided**
- **Necrosectomy: 2**
- **PD Stricture Laser Dissection: 4**

Preliminary Results

- **Baseline: Mean age of 52.9 (14.3) and female sex (50%, n=40)**
- **PANQOLI Mean of 55 (16.4)**
- **VAS Mean of 42.4 (29.3)**
- **Opiate Use: 42.5% (n=34)**
Mean mg morphine/day: 32.7 (22.6)

Preliminary Results

1 month follow-up (n=30):

- PANQOLI: 56.8 (18.8) to 65.7 (15.2), p=0.02
- Physical Function: 18.3 (7.5) to 21.1 (5.7), p=0.08
- Role Function: 13 (3.6) to 16.6 (3.7), p<0.01
- Emotional Function: 12.2 (6.1) to 13.8 (4.7), p=0.16
- Self-worth: 13.3 (5) to 14.4 (4.3), p=0.09

Preliminary Results

3 month follow-up (n=22):

- PANQOLI: 62.6 (20.2) to 69.8 (15.7), $p=0.15$
- Physical Function: 20.4 (7.7) to 21 (4.7), $p=0.63$
- Role Function: 13.5 (3.2) to 18.4 (4.4), $p<0.001$
- Emotional Function: 13.9 (6.8) to 16 (4.4), $p=0.15$
- Self-worth: 14.9 (5.6) to 15.5 (4.2), $p=0.61$

Objectives

- **CAPER Scholars Project**
- **Preliminary Results**
- **Future Goals**

Future Directions

- **Continue enrolling patients and obtaining follow-up**
- **Consider making this a multi-center project**
- **Submit initial results to DDW**

Future Goals

- **Submitting a career development award grant this coming cycle focusing on this very topic**
- **Academic Pancreatologist with clinical focus in acute and chronic pancreatitis who performs pancreatic endotherapy**
- **Develop expertise in clinical trials and patient-centered outcomes**

Thank You

- **Dr. Walter Park**
- **Dr. Sachin Wani and Dr. Raj Shah**
- **Dr. Wahid Wassef**