

# Post-ERCP Pancreatitis: Does Diet Really Matter?

DONALD AND BARBARA

ZUCKER SCHOOL of MEDICINE

AT HOFSTRA/NORTHWELL®

Mark Cubillan, MD, Kara Raphael, MD
Division of Gastroenterology, Department of Medicine

## INTRODUCTION

Pancreatitis is one of the potential complications after an ERCP, with an incidence of 9.7% and a mortality of 0.7%. Several factors are known to be associated with the development of post-ERCP pancreatitis including a prior history of pancreatitis, difficult cannulation, and Grade 3 procedural interventions, however, the relationship between post-ERCP diet and development of pancreatitis is not well understood.

<u>Hypothesis</u>: We theorized that a regular consistency low fat diet immediately after an ERCP would not have an association with the development of post-ERCP pancreatitis.

## **METHODS**

### **Study Type:**

Retrospective multicenter study involving two academic medical centers of patients who underwent ERCP in 2021

#### **Inclusion Criteria:**

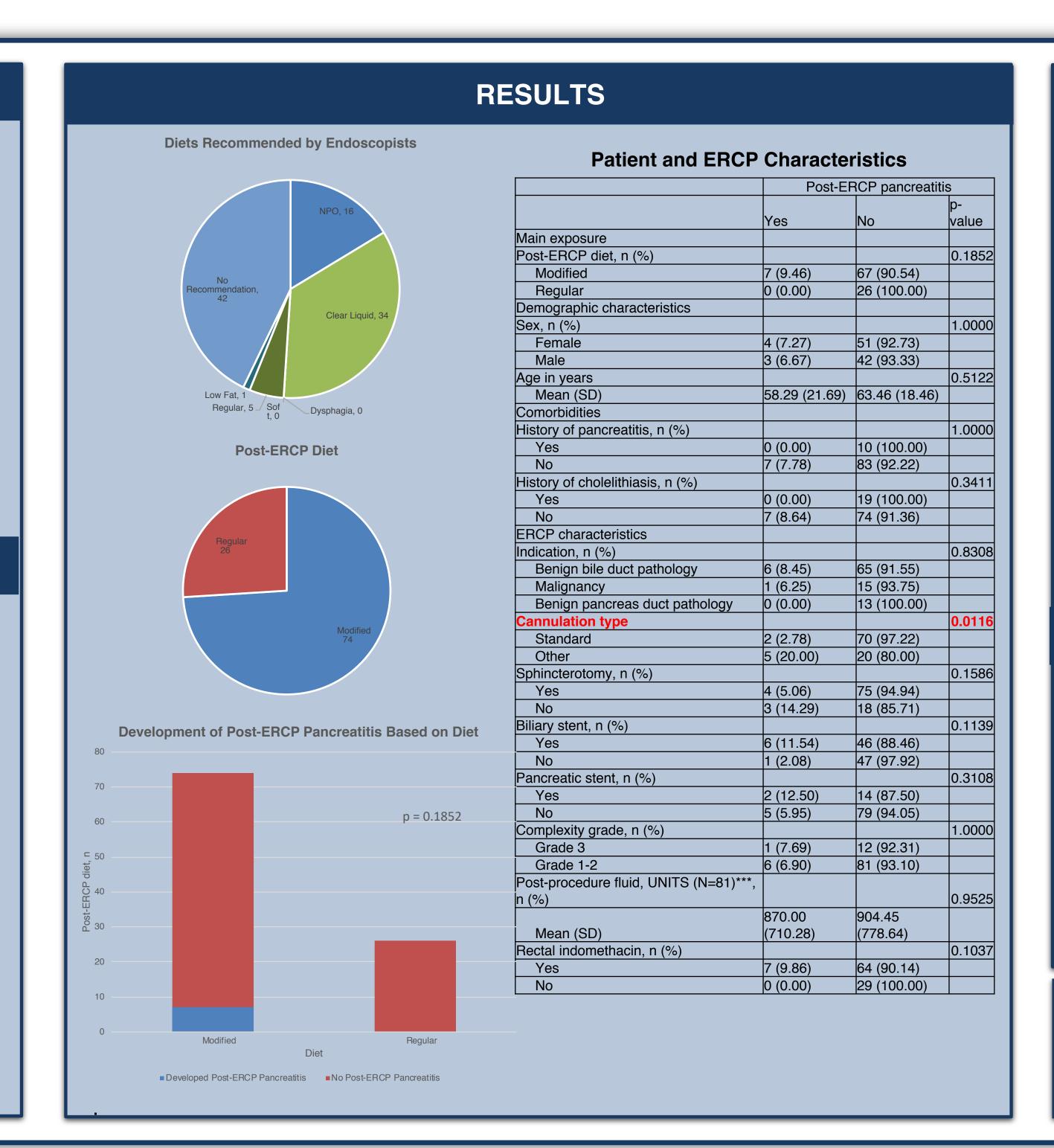
- 1. Patients ≥ 18 years old
- 2. In-patient status prior to ERCP
- 3. No prior history of ERCP
- 4. No prior history of pancreatitis
- 5. No Prior history of Sphincter of Oddi Dysfunction

#### **Variables:**

- 1. Demographics
- 2. ERCP indications, interventions, intra-procedural complications
- 3. Pre and post ERCP diet (as recommended by endoscopist)
- 4. Post-procedure complications including pancreatitis

#### **Data Analysis**

Variables compared using X2 and Fisher's exact tests



## CONCLUSIONS

- In cohort of 100 patients, diet type was not associated with the development of post-ERCP pancreatitis
- Non-standard cannulation type (ie precut needle knife sphincterotomy) was significantly associated with post-ERCP pancreatitis, which has been well established previously
- Endoscopists regularly recommend a modified diet post-ERCP despite a lack of evidence in benefit of slowly advancing patient diet
- Immediate initiation of a regular diet may lead to decreased hospital stay, quicker patient recovery, and improving patient satisfaction

## **FUTURE DIRECTIONS**

- Larger scale studies and prospective randomized controlled trials to further evaluate the relationship between diet and development of post-ERCP pancreatitis, as well as assess for additional independent risk factors for post ERCP pancreatitis
- Cost-benefit analysis of post-ERCP diet

#### About Northwell Health

As New York State's largest health care provider and private employer, Northwell Health strives to improve the health of the communities it serves and is committed to providing the highest quality clinical care; educating the current and future generations of health care professionals; searching for new advances in medicine through the conduct of bio-medical research; promoting health education; and caring for the entire community regardless of the ability to pay. Much more than a health system, we pioneer discoveries at the Feinstein Institute for Medical Research, provide visionary education at the Zucker School of Medicine at Hofstra/Northwell and School of Graduate Nursing and Physician Assistant Studies, and innovate through Northwell Ventures. The winner of the National Quality Forum's 2010 National Quality Healthcare Award, Northwell Health cares for people at every stage of life at 23 hospitals and more than 700 outpatient facilities throughout the region. Northwell Health encompasses more than 13,600 affiliated physicians, including about 4,000 employed doctors and nearly 3,300 members of Northwell Health Physician Partners. For more information, go to northwell.edu.