

Name of journal: *World Journal of Gastrointestinal Endoscopy*

ESPS Manuscript NO: 13846

Columns: ORIGINAL ARTICLE

Basic Study

Feasibility and safety of endoscopic cryoablation at the duodenal papilla: porcine model

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Abstract

AIM: To assess the feasibility and safety of liquid nitrogen spray cryoablation at the duodenal papilla in a porcine model.

METHODS: This prospective study protocol was approved by the University of Florida Institutional Animal Care and Use Committee (IACUC). Six pigs underwent liquid nitrogen spray cryotherapy at the duodenal papilla. Freeze time of 20-seconds was applied per cycle (4 cycles/session). Survival animals (n=4) were monitored for adverse events. Hemoglobin, white blood count, liver tests, and lipase were obtained at baseline and post-treatment. EGD was performed on day#7 to evaluate the papilla and for histology. All animals were euthanized and necropsy was performed at the end of the one-week survival period. Feasibility was defined as successful placement of the decompression tube in the duodenum, followed by delivery of spray cryotherapy to the duodenal papilla. Safety was determined by monitoring post-treatment blood tests and clinical course. Treatment effect was defined as endoscopic and histologic changes after cryotherapy. This was established by comparing endoscopic and histologic findings from mucosal biopsies prior to

cryotherapy and on post-operative day (POD)#7. Full-thickness specimen was obtained post-mortem to assess depth of injury.

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