GLUCOMETRY TO GLUCOMETRY CYST RATIO: A NOVEL DIAGNOSTIC APPROACH FOR MUCINOUS AND NON-MUCINOUS PANCREATIC CYSTS

Miguel Angel Ramirez Luna

UEG Week Copenhagen 2023 | Poster

Pancreas

October 15, 2023

A prospective cohort of 24 patients found that the ratio of patient blood glucose to cyst fluid glucose (cut-off >2.45) distinguished mucinous from non-mucinous pancreatic cysts with 90% sensitivity and 92.8% specificity, outperforming traditional CEA and cyst glucose alone.

KEY POINTS

- The glucometry-to-glucometry cyst ratio (patient blood glucose divided by cyst fluid glucose) had an AUC of 0.971 and at a cut-off of >2.45 achieved 90% sensitivity, 92.8% specificity, 90% PPV, 92.8% NPV, and 91.6% precision for identifying mucinous cysts.
- Traditional CEA (cut-off 192 ng/dL) showed 70% sensitivity and 92.8% specificity, while cyst glucose alone (cut-off <50 mg/dL) showed 80% sensitivity and 85.7% specificity, both lower than the ratio method.
- The study included 24 patients (14 mucinous, 10 non-mucinous) at a single center in Mexico City from January 2021 to October 2022, with final diagnosis established by multidisciplinary team, biopsy, or surgical specimen.
- The authors characterize the glucometry ratio as a novel, cheap, and accessible approach and call for larger studies to confirm these findings.
- This material is relevant for endoscopists and gastroenterologists evaluating pancreatic cysts and seeking improved diagnostic tools for risk stratification.

VIEW THIS CONTENT ON GUTFLIX

https://gutflix.eu/search/d/1df7c0ee-743b-11ee-8f48-0242ac140004

AI-generated summary

This summary was generated by an AI large language model based on the content transcript. It is for informational purposes only and should not be considered a substitute for clinical judgment. Always rely on your professional expertise and the full clinical context when making clinical decisions.