

# Insulinoma; is enucleation a safe option?



A.P.J. Jilesen<sup>1</sup>, H.J. Klümpen<sup>2</sup>, P.H. Bisschop<sup>3</sup>, O.R.C. Busch<sup>1</sup>, T.M. van Gulik<sup>1</sup>, D.J. Gouma<sup>1</sup>, E.J.M. Nieveen van Dijkum<sup>1</sup>

Departments of surgery<sup>1</sup>, Department of Medical Oncology<sup>2</sup> and Department of medicine metabolism and endocrinology<sup>3</sup>, Academic Medical Center, Amsterdam, The Netherlands

## Aim

The post-operative surgical outcome in resected insulinomas

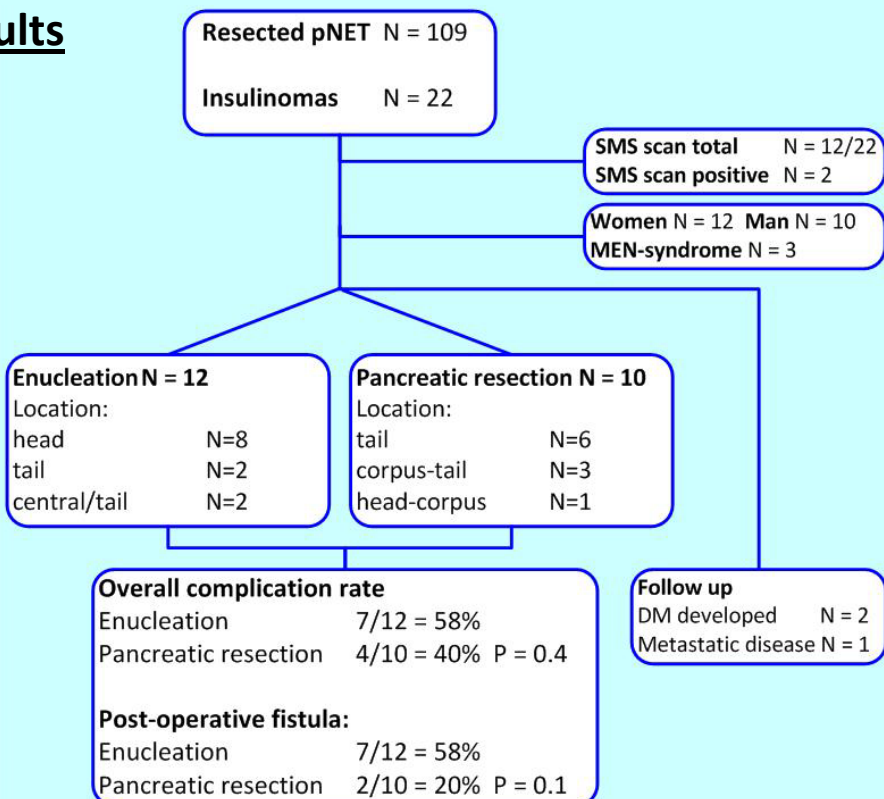
## Background

- Insulinomas are the most prevalent functional neuroendocrine tumors of the pancreas.
- Enucleation is often preferred to pancreatic resection because of its minimally invasive nature.

## Methods

- Retrospective cohort study of resected pancreatic neuroendocrine tumors (pNET)
- Inclusion: all patients with resected insulinomas between 1992 and 2012.
- Analysis: Surgical procedure and post-operative outcome

## Results



## Conclusion

- Enucleation was frequently performed in 55% but had a high complication rate
  - Pancreatic fistula was the most frequent complication of enucleation
  - Although insulinomas are usually small, a pancreatic resection is a safe alternative option
- Careful patient selection and operation should be performed