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Natural History of Small Sporadic Non-Functioning Pancreatic Neuroendocrine Tumors: An Observational Bi-Centric Study

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Context Asymptomatic sporadic non-functioning well-differentiated pancreatic neuroendocrine tumors (AS-NF-PNET) are increasingly diagnosed, and their management is controversial because of their overall good but heterogeneous prognosis. **Objective** The aim of the present study was to assess the natural history of AS-NF-PNET below 2 cm in size, and the benefit-risk balance of a nonoperative management. Methods From January 2000 to June 2012, 46 patients with proven AS-NF-PNET below 2 cm in size were followed-up for at least 18 months with serial imaging. Results Patients were mainly female (65%), with a median age of 60 years. Tumors were mainly located in the pancreatic head (52%), with a median lesion size of 13 mm (range: 9-15 mm). Distant or nodal metastases appeared on imaging in none of the

patients after a median follow-up of 34 months (range: 24-52 mm) and an average of 4 (range: 3-6) serial imaging. A ≥20% increase in size was observed in 6 (13%) patients. Overall median tumor growth was 0.12 mm per years and nor patients neither tumor characteristics were found to be significant predictors of tumor growth. Overall, 8 patients (17%) underwent surgery after a median time from initial evaluation of 41 months (range: 27-58 months); all resected lesions were ENETS T stage 1 (n=7) or 2 (n=1), grade 1, node negative, with neither vascular nor peripancreatic fat invasion. Conclusion In selected patients nonoperative management of AS-NF-PNET below 2 cm in size is safe. Larger and prospective multicentre studies with long-term follow-up are now needed to validate this "wait and see" policy.