cell function which had remained masked and asymptomatic because of insulin resistance in obesity, or pathological beta cell hyperplasia in response to certain humoral factors which are increased following gastric bypass. Specifically, an excessive increase in GLP-1 in response to a mixed meal has been seen in patients with this complication, unlike patients undergoing bypass who have not experienced hypoglycemia.9

Some common pathogenetic link may possibly exist between spontaneous NIPHS and nesidioblastosis secondary to bariatric surgery, but such a link has yet to be found. To date, increased growth factor and growth factor receptor levels only have been reported in pancreas from patients of both types as compared to control pancreas.10

To sum up, although fasting hypoglycemia is the usual presenting symptom of hyperinsulinism, there are some cases with postprandial hypoglycemia, particularly when this is severe and associated with neuroglycopenia, which should lead us to consider the existence of nesidioblastosis, not only in patients undergoing bariatric surgery, but also as a spontaneous phenomenon.

References


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Mitral regurgitation of unknown etiology in a 20-year-old patient

Insuficiencia mitral de etiologia desconocida en paciente de 20 años

A 20-year-old woman attended the emergency room reporting anxiety, palpitations, orthopnea, and paroxysmal nocturnal dyspnea for the previous three days. She had no lower limb edema or decreased urine output. No headache, excess sweating, or infection was reported either. The patient’s history included type Ib von Hippel–Lindau disease (VHL), with bilateral amauropathy secondary to multiple retinal angiomas since 14 years of age. Syndrome screening and monitoring was not performed because the patient refused to return for regular visits for personal reasons.

Clinical examination showed a fair general status. BP 125/70 mmHg; HR 120 bpm; SatO₂ 96% (FiO₂ 21%); temperature 36.5 °C. Cardiac auscultation found rhythmic sounds, with grade IV/VI pansystolic murmur, more audible in mitral focus and irradiating to axilla. The rest of the systematic examination was normal.

An electrocardiogram revealed sinus tachycardia at 120 bpm, with no impaired atrioventricular or intraventricular conduction, nor repolarization changes. A test showed an NTproBNP level of 2948.7 pg/mL (normal range [NR]: 0–125 pg/mL) and a CA 12.5 level of 180.5 U/mL (NR 0–35 U/mL). These are both markers of congestion with a known prognostic value in heart failure. No remarkable changes were found in any other tested parameters. Thyroid function, lipid profile, and autoimmunity markers were normal. A chest X-ray showed a cardiac silhouette of normal size with bilateral reticular pattern suggesting interstitial edema. After the above findings, a transthoracic echocardiography revealed a slight left ventricular dilation with moderately depressed (45%; NR for age 60%) left ventricular ejection fraction (LVEF) and severe grade IV/VI mitral regurgitation with an apparently normal valve (Fig. 1A).

The patient was diagnosed mitral regurgitation of unknown etiology and admitted to the cardiology department, where beta-blocker and diuretic treatment was
started. Dyspnea slightly improved in the first 48 h of hospitalization, which improved supine position tolerance. The patient subsequently experienced an attack of anxiety with profuse sweating and palpitations. An electrocardiogram showed sinus tachycardia at 135 bpm. Since this was the first clinical episode of mitral regurgitation in a young patient who had shown improvement, a secondary origin was suspected. Tests were therefore requested for autoimmunity and urinary catecholamines, which were positive (vanillylmandelic acid 17.5 mg/24 h (NR 2.9–11.0 mg/24 h), total metanephrines 3012.5 μg/24 h (NR 0–1000 μg/24 h), normetanephrine 2987.5 μg/24 h (NR 105–354 μg/24 h), total catecholamines 657.5 μg/24 h (NR 217–575 μg/24 h), norepinephrine 467.5 μg/24 h (NR 23–105 μg/24 h), dopamine 177.5 μg/24 h (NR 190–450 μg/24 h).

These results suggested pheochromocytoma and justified the clinical picture. Based on this suspected diagnosis in the setting of von Hippel–Lindau syndrome, the patient was referred to the Endocrinology Department. Diagnostic work-up was completed by requesting abdominal and brain MRI. Abdominal MRI revealed a clearly outlined left adrenal mass, 2.3 cm in diameter, suggesting pheochromocytoma (Fig. 1B). A heterogeneous cystic tumor, 7.6 cm × 6.2 cm in diameter, was also reported in the left kidney, and multiple formations were seen in the pancreas, with cystic signal in the head, neck, and tail (Fig. 2A). Brain MRI revealed two small high uptake lesions in the left cerebellar hemisphere, a 5-mm lesion and a more peripheral 3-mm lesion, corresponding to small cerebellar hemangioblastomas (Fig. 2B). Once imaging diagnosis had been performed, the Urology Department was contacted to plan the surgical approach. Preparation for surgery was started by increasing phenoxybenzamine doses up to 20 mg/12 h. The patient subsequently experienced palpitations, showing sinus tachycardia which was controlled with propranolol 20 mg/12 h. Once clinical stability had been achieved, surgery was decided upon. This was performed 20 days later and consisted of radical nephrectomy and adrenalectomy through a laparoscopic approach. The patient experienced no immediate complications and showed an improvement in blood pressure values and palpitations. A pathological study found pheochromocytoma and clear cell renal carcinoma. Postoperative chemistry

![Figure 1](image1.png)

**Figure 1** (A) Axial abdominal MRI. Heterogeneous cystic tumor, 7.6 × 6.2 in diameter, in the left kidney. (B) Brain MRI. High uptake lesions in the left cerebellar hemisphere, a 5-mm lesion and a more peripheral 3-mm lesion, corresponding to small cerebellar hemangioblastomas.

![Figure 2](image2.png)

**Figure 2** (A) Transthoracic echocardiography (apical plane 4C). Mitral regurgitation. (B) Abdominal MRI cross-section. Clearly outlined left adrenal mass, 2.3 cm in diameter, suggesting pheochromocytoma (marked with red arrow). (For interpretation of the references to color in this figure legend, the reader is referred to the web version of the article.)
Intrasellar schwannoma: A rare case of pituitary incidentaloma

Schwannoma intraselar: un caso excepcional de incidentaloma hipofisario

Most neoplasms growing in the sella turcica are pituitary adenomas. The remaining neoplasms are benign tumors (cra-


diopharyngiomias and meningiomias), malignant tumors (primary germ cell tumors, chordomas, lymphomas, and pituitary adenocarcinomas, or metastatic disease, mainly from breast and lung cancer), and other uncommon conditions (cysts, abscesses, arteriovenous fistulas, lymphocytic hypophysitis). Schwannoma accounts for up to 8% of primary brain tumors, and is usually associated with the cranial nerves and shows a special predilection for the vestibular portion of the 8th cranial nerve at the cerebellopontine angle, while intrasellar localization is exceptional.

We report here the 17th case of intrasellar schwannoma published to date since the one reported by Perone et al.2

References


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