







Recurrent PreSyncope

Batla Falah M.D Hadassah Medical Center Israel

N.K

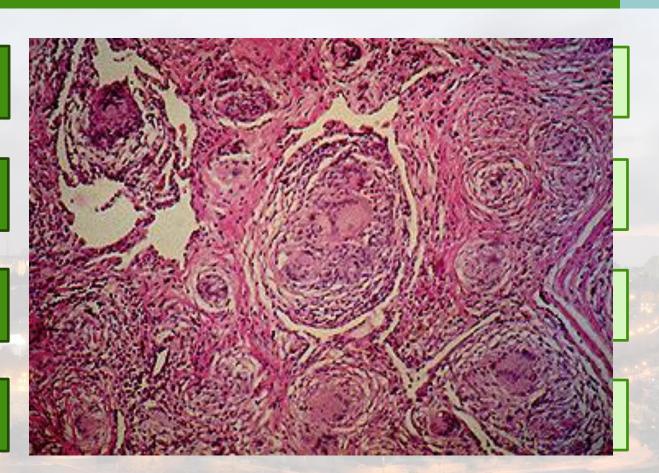
• 57 y.o female patient.

 Recurrent PreSyncope, sweating, numbness, abdominal pain .





Abdominal Pain – Family physician





Still outpatient...





ההסתדרות הרפואית בישראל

Admission

BP 144/72 35.9C, 98% Sat RA, Glucose-70

Physical Exam-tenderness LUQ + LUQ

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	ביוכימיה														
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72 Hours fasting test



Hypoglycemia: Interpretation of laboratory tests*

ro-IGF-II, free IGF-II, IGF-II/IGF-I ratio.

Symptoms, signs, or both	Glucose (mg/dL)/ (mmol/L)	Insulin (microU/mL)/ (pmol/L)	C-peptide (nmol/L)/ (ng/mL)	Proinsulin (pmol/L)	Beta- hydroxybutyrate (mmol/L)	Glucose increase after glucagon (mg/dL)/ (mmol/L)	Circulating oral hypoglycemic agent	Antibody to insulin	Diagnostic interpretation
No	<55/3	<3/20.8	<0.2/0.6	<5	>2.7	<25/1.4	No	No	Normal
Yes	<55	>>3	<0.2	<5	≤2.7	>25	No	Neg (Pos)	Exogenous insulin
Yes	<55	≥3	≥0.2	≥5	≤2.7	>25	No	Neg	Insulinoma, NIPHS, PGBH
Yes	<55	≥3	≥0.2	≥5	≤2.7	>25	Yes	Neg	Oral hypoglycemic agent
Yes	<55	>>3	>>0.2*	>>5*	≤2.7	>25	No	Pos	Insulin autoimmune
Yes	<55	<3	<0.2	<5	≤2.7	>25	No	Neg	IGF∆
Yes	<55	<3	<0.2	<5	>2.7	<25	No	Neg	Not insulin (or IGF)-mediated



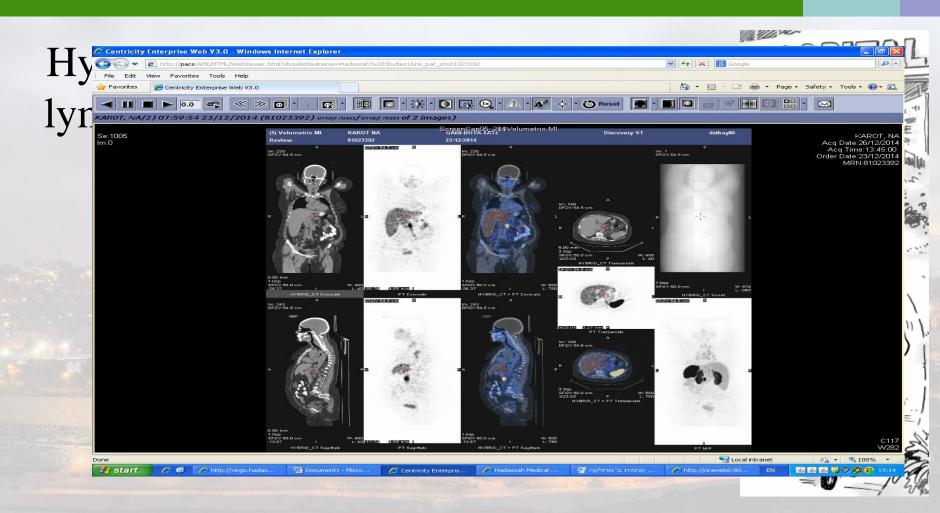
2; Pos: positive; PGBH: post gastric bypass hypoglycemia; NIPHS: noninsulinoma pancreatogenous hypoglycemia syndrome; IGF: insulin-like growth factor. findings during fasting or after a mixed meal in normal individuals with no symptoms or signs despite relatively low plasma glucose concentrations (ie, Whipple's triad :ed) and in individuals with hyperinsulinemic (or IGF-mediated) hypoglycemia or hypoglycemia caused by other mechanisms.

ide and proinsulin concentrations are low.

CT- Abdomin

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Entelsarp Souratostatin Scan



Biopsy

Blood and small fragmen granulomas without cent artifact present. Chro endocrine/neuroendocrin fungi and acid fast bac The findings are morpho Clinical/radiological c



ממצא מיקרוסקופי

ch well-formed epitheloid
/mhpoid tissue with crush
constrate
leelsen stains negative for

arcoidosis.



Pancreatic Sarcoidosis?

PANCREATIC — Clinically apparent pancreatic sarcoidosis is rare [21,47-49]. One autopsy series of 92 patients with sarcoidosis documented incidental pancreatic involvement in five [4]. A different report reviewed nine major series and found pancreatic granulomas in 3 (1 percent) of 287 postmortem examinations [3].

A literature review in 1996 found only 13 patients with biopsy-proven granulomas in the pancreas or peripancreatic nodes [47]. They added six of their own cases, one involving the body of the pancreas and five infiltrating the peripancreatic nodes. A clinically helpful profile of pancreatic sarcoidosis emerged from their limited review of 18 patients:

- Clinically apparent pancreatic sarcoidosis appears to be more common in women.
- Bilateral hilar adenopathy was present on chest radiograph in three-fourths
- Two-thirds of patients have acute abdominal pain, but other typical findings of acute pancreatitis are uncommon

Laboratory, radiographic, and nuclear imaging features are not definitive. Serum amylase and lipase elevation may or may not be present [50,51]. Computed tomography (CT) and ultrasound of the abdomen are useful in demonstrating a pancreatic "mass," which is in the head of the pancreas in about half the cases [21,49]. A diffusely nodular pancreas is noted in the other half. However, imaging tests are unable to distinguish the granulomatous involvement from focal pancreatic inflammation or a carcinomatous mass. Thus, either a CT-guided or laparoscopic biopsy is needed to identify noncaseating granulomas and exclude cancer and mycobacterial or fungal infection [21,50].

TREATMENT — The decision to treat gastrointestinal (GI) sarcoidosis is based upon the activity and extent of disease. Asymptomatic patients generally do not require treatment. For patients who are symptomatic and have a substantial amount of granulomatous inflammation on tissue biopsy, glucocorticoids are the treatment of choice, based on extrapolation from the treatment of pulmonary sarcoidosis [21].

Immunosuppressive therapy — For most forms of gastrointestinal sarcoidosis, when therapy is
indicated, we initiate <u>prednisone</u> 30 to 40 mg given as a single daily dose, and then gradually taper to a
maintenance dose of 10 to 15 mg daily, over a period of approximately six months. The proper length of
therapy for those who respond to treatment is not known. We usually aim for a duration of therapy of at
least one year.

The prognosis of pancreatic sarcoidosis is good; 80 percent of patients improve either spontaneously or with glucocorticoids [47-49].



Endoor J. 2010;57(4):325-30. Epub 2010

Hypoglycemia due to ecto the spleen.

<u>Ogiwara Y</u>1, <u>Mori S, Iwama M, Saw</u> <u>Maruyama N, Ito H</u>.

Author information

Abstract

Hypoglycemia is reported to be on glucose. But, without hypothalamic with an isolated sarcoidosis of the During hypoglycemia, serum insulir whether the patient's hypoglycemi factor-I (IGF-I) and IGF-II were measurement of IGF-II and serum vistal hypoglycemia did not recur and semRNA level of IGF-I in the sarcoido secretion of IGF-I by the splenic sa suppressing hepatic gluconeogena



"I've brought my own bed with me."

a patient with an isolated sarcoidosis of

do Y, Kimbara Y, Tamura Y, Chiba Y, Araki A, Yokote K,

coid infiltrates due to impaired counter-regulation of to have hypoglycemia. We recently identified a patient mia which completely disappeared after splenectomy. dino abnormality. The objective was to investigate if by the splenic sarcoidosis. Serum insulin-like growth A. A high molecular weight form of IGF-II, termed "big" IGF RNA extraction. Before operation, total and free serum red in patient's serum extract. After operation, and by half the preoperative level. RT-PCR revealed that nall spleen tissue. These data suggest that ectopic ein might cause fasting hypoglycemia mainly by



"WHEN I ASKED IF YOU WERE FLEXIBLE, MRS. HARKNESS, I WAS TALKING ABOUT YOUR HOURS!"



