

Nesidioblastosis

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Nesidioblastosis is a controversial medical term for hyperinsulinemic hypoglycemia attributed to excessive function of pancreatic beta cells with an abnormal microscopic appearance. The term was coined in the first half of the 20th century. The abnormal histologic aspects of the tissue included the presence of islet cell enlargement, islet cell dysplasia, beta cells budding from ductal epithelium, and islets in apposition to ducts. By the 1970s, nesidioblastosis was primarily used to describe the pancreatic dysfunction associated with persistent congenital hyperinsulinism and in most cases from the 1970s until the 1970s, it was used as a synonym for what is now referred to as congenital hyperinsulinism. Most congenital hyperinsulinism is caused by different mechanisms than excessive proliferation of beta cells in a fetal pattern and the term fell into disfavor after it was recognized in the late 1980s that the characteristic tissue features were sometimes seen in pancreatic tissue from normal infants and even adults, and is not consistently associated with hyperinsulinemic hypoglycemia. However, the term has been resurrected in recent years to describe a form of acquired hyperinsulinism with beta cell hyperplasia found in adults, especially after gastrointestinal surgery. ([From the Wikipedia article Nesidioblastosis](#).)

Recent Publications on Nesidioblastosis:



- [\[Nesidioblastosis in an adult with type 2 diabetes mellitus: A case report.\]](#)
Adults-onset nesidioblastosis, as a differential diagnosis of organic... 16th October, 2009
Department of endocrinology, Peking University First Hospital, Beijing- Beijing Da Xue Xue Bao. 2009 Oct 18;41(5):590-2.
- [Bariatric surgery: unstressing or boosting the beta-cell?](#)
Bariatric surgery is the most effective therapy for severe obesity in... 13th October, 2009
Department of Internal Medicine, Catholic University, Rome, Italy.- Diabetes Obes Metab. 2009 Nov;11 Suppl 4:130-42. ([DOI Direct Link](#))
- [Nesidioblastosis as a cause of focal pancreatic 111In-pentetreotide uptake in a patient with putative VIPoma: another differential diagnosis.](#)
In adults, nesidioblastosis is a very infrequent condition and a rare... 9th October, 2009
Royal Brisbane and Women's Hospital, Butterfield Street, Herston,- Ann Nucl Med. 2009 Jul;23(5):497-9. Epub 2009 Apr 22. ([DOI Direct Link](#))
- [Correlation of Pancreatic Histopathologic Findings and Islet Yield in Children With Chronic Pancreatitis Undergoing Total Pancreatectomy and Islet Autotransplantation.](#)
OBJECTIVES:: The probability of insulin independence after intraportal... 12th September, 2009
From the Departments of *Surgery, daggerPathology, double- Pancreas. 2009 Sep 8. ([DOI Direct Link](#))
- [A 20-year-old man with recurrent abdominal pain and vomiting since the age of 5 years. Familial chronic pancreatitis with nesidioblastosis and hyperinsulinaemic hypoglycaemia.](#)

- OBJECTIVES:: The probability of insulin independence after intraportal...*21st August, 2009
Sir Ganga Ram Hospital, New Delhi.- Natl Med J India. 2008 Nov-Dec;21(6):307-12.
- [Generation and characterization of human insulin-releasing cell lines.](#)
*BACKGROUND: The in vitro culture of insulinomas provides an attractive...*21st August, 2009
Nucleo de Terapia Celular e Molecular, Universidade de Sao Paulo, Sao- BMC Cell Biol. 2009 Jun 19;10:49. ([DOI Direct Link](#))
 - [Successful Treatment of Adult Persistent Hyperinsulinemic Hypoglycemia with Nifedipine.](#)
*Objective: To describe the successful treatment of severe non-insulinoma...*25th July, 2009
Department of Medicine, University of Massachusetts Medical School,- Endocr Pract. 2009 Jul 20:1-15. ([DOI Direct Link](#))
 - [Treatment of hyperinsulinemic hypoglycemia due to diffuse nesidioblastosis in adults: a case report.](#)
*An 82-year-old man was admitted to our hospital with a complaint of...*15th May, 2009
Department of General Surgical Science (Surgery I), Gunma University- Am Surg. 2009 Apr;75(4):331-4.
 - [Hyperinsulinemic hypoglycemia with nesidioblastosis: histologic features and growth factor expression.](#)
*Hypoglycemia secondary to nesidioblastosis is rare in adults, and the...*1st May, 2009
Division of Anatomic Pathology, Mayo Clinic, Rochester, MN 55901, USA.- Mod Pathol. 2009 Feb;22(2):239-45. Epub 2008 Oct 17. ([DOI Direct Link](#))
 - [A case of nesidioblastosis causing hypoglycaemia after delivery.](#)
*Nesidioblastosis is a rare cause of adult-onset hyperinsulinaemic...*28th April, 2009
Department of Internal Medicine, College of Medicine, Chung-Ang- Diabetes Res Clin Pract. 2009 Jan;83(1):e5-7. Epub 2008 Nov 18. ([DOI Direct Link](#))
 - [\[Contribution to cases of spontaneous hypoglycemia, assumed to have been caused by nesidioblastosis\]](#)
*An 82-year-old man was admitted to our hospital with a complaint of...*11th April, 2009
- Orv Hetil. 2009 Feb 15;150(7):326-7; author reply 327-8.
 - [The change in the dumping syndrome concept.](#)
*Nesidioblastosis is focal or diffuse islet hyperplasia leading to...*20th February, 2009
Obesity Surgery, 39 Bassano Road, Toronto, ON M2N 2J9, Canada.- Obes Surg. 2008 Dec;18(12):1622-4. Epub 2008 Oct 22. ([DOI Direct Link](#))
 - [Concomitant intraductal papillary mucinous neoplasm and pancreatic endocrine tumour: Report of two cases and review of the literature.](#)
*It has been suggested that the occurrence of intraductal papillary...*19th February, 2009
Digestive Endoscopy Unit, Catholic University, Rome, Italy.- Dig Liver Dis. 2009 Oct;41(10):759-61. Epub 2009 Feb 14. ([DOI Direct Link](#))
 - [Noninsulinoma pancreatogenous hypoglycemia syndrome in a Saudi male.](#)
*Nesidioblastosis is focal or diffuse islet hyperplasia leading to...*31st January, 2009
Department of Medicine, King Khalid National Guard Hospital, PO Box 9515,- Saudi Med J. 2008 Nov;29(11):1654-7.
 - [An unusual case of concurrent insulinoma and nesidioblastosis.](#)
*CONTEXT: Endogenous hyperinsulinaemic hypoglycaemia in adults is most...*17th December, 2008
Department of Hepatobiliary and Pancreatic Surgery, Leicester General- JOP. 2008 Sep 2;9(5):649-53.

Nesidioblastosis Patents:



- 6864234- [Somatostatin agonists](#)
- 6969727- [Heterocyclic aromatic compounds useful as growth hormone secretagogues](#)
- 6992102- [Bicyclic modulators of androgen receptor function](#)
- 7001911- [Fused cyclic modulators of nuclear hormone receptor function](#)
- 7022677- [Amide derivatives as growth hormone secretagogues](#)
- 7053110- [Heterocyclic aromatic compounds useful as growth hormone secretagogues](#)
- 7060679- [Conformationally constrained backbone cyclized somatostatin analogs](#)
- 7064121- [N-acylated lipophilic amino acid derivatives](#)
- 7087636- [Fused heterocyclic compounds and analogs thereof, modulators of nuclear hormone receptor function](#)
- 7094753- [Somatostatin analog and uses thereof](#)
- 7109166- [Sustained release formulation of a peptide](#)
- 6967100- [Pancreatic islet cell growth factors](#)
- 6953791- [Dipeptide derivatives](#)
- 6864250- [N-acylated lipophilic amino acid derivatives](#)
- 6900051- [Process for obtaining mammalian insulin secreting cells in vitro and their uses](#)
- 6908938- [Heterocyclic aromatic compounds useful as growth hormone secretagogues](#)
- 6919315- [Compounds with growth hormone releasing properties](#)
- 6924280- [Dipeptide derivatives](#)
- 6930088- [Conformationally constrained backbone cyclized somatostatin analogs](#)
- 6939880- [Compounds with growth hormone releasing properties](#)
- 6939887- [Benzimidazolidinone derivatives](#)
- 6951850- [Dipeptide derivatives](#)
- 6953679- [Method for the preparation of fused heterocyclic succinimide compounds and analogs thereof](#)
- 7141578- [Fused heterocyclic succinimide compounds and analogs thereof, modulators of nuclear hormone receptor function](#)
- 7144859- [Somatostatin agonists](#)
- 7388027- [Bicyclic compounds as modulators of androgen receptor function and method](#)
- 7405234- [Bicyclic modulators of androgen receptor function](#)
- 7408024- [Somatostatin antagonists](#)
- 7417040- [Fused tricyclic compounds as inhibitors of 17.beta.-hydroxysteroid dehydrogenase 3](#)
- 7456018- [Human hepatoma lines, methods for obtaining same and uses thereof](#)
- 7470797- [Fused heterocyclic imido and amido compounds](#)
- 7507761- [Benzopyran derivatives, method of production and use thereof](#)
- 7517904- [Fused heterocyclic succinimide compounds and analogs thereof, modulators of nuclear hormone receptor function](#)
- 7576062- [Compounds with growth hormone releasing properties](#)
- 7589102- [Heterocyclic aromatic compounds useful as growth hormone secretagogues](#)
- 7385026- [Modified ghrelin polypeptides](#)
- 7378488- [Somatostatin antagonists](#)
- 7166596- [Heterocyclic aromatic compounds useful as growth hormone secretagogues](#)
- 7214804- [Heterocyclic compounds useful as growth hormone secretagogues](#)
- 7256208- [Monocyclic N-Aryl hydantoin modulators of androgen receptor function](#)
- 7279573- [Amide derivatives](#)
- 7291637- [Fused heterocyclic compounds and analogs thereof, modulators of nuclear hormone receptor function](#)
- 7312304- [Somatostatin agonists](#)
- 7314859- [Compositions and methods for the prevention and control of insulin-induced hypoglycemia](#)
- 7342034- [Fused heterocyclic compounds and analogs thereof, modulators of nuclear hormone receptor function](#)
- 7355024- [Regulatory sequences for modulation of INGAP expression and reporter constructs](#)
- 7378426- [Fused heterocyclic compounds as inhibitors of 17.beta.-hydroxysteroid dehydrogenase 3](#)

- 7592354- [Heterocyclic aromatic compounds useful as growth hormone secretagogues](#)

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