



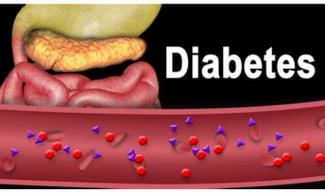
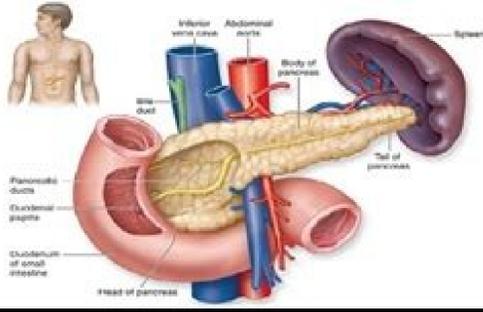
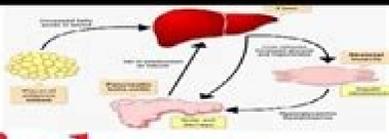
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Diabetes Pathophysiology



INTRODUCCION

La Diabetes Mellitus es una de las enfermedades crónicas no transmisibles más frecuentes del ser humano a todas las edades y se considera un problema de salud pública por su elevada morbilidad y mortalidad.

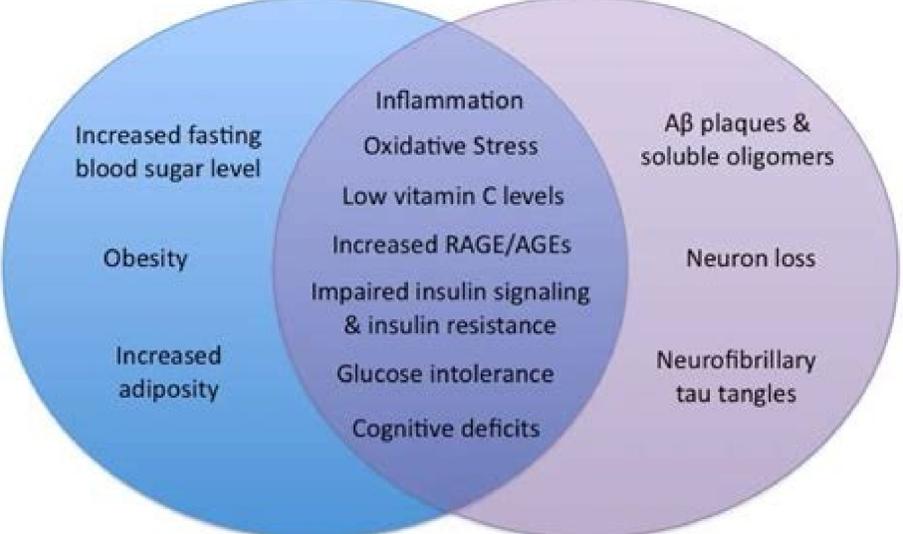
Diabetes Mellitus, Manuel García de los Ríos, 2ª Edición

Diabetes Mellitus - Type I vs Type II

Diabetes (in a nut shell) ⇒ High Blood (Glucose) can't be lowered (Bad)

Type I "juvenile onset"	Type II "adult onset"
<p>Problem: <u>loss</u> of insulin production</p> <p>Cause: <u>damage</u> to <u>pancreas</u> (β-cells specifically)</p> <p>- genetic also</p> <p>→ <u>Auto immune</u></p> <p>Treatment: ① Diet/Exercise ② Administer <u>insulin</u></p>	<p>Problem: <u>inability</u> of cells to respond to insulin (<u>decreased sensitivity to insulin</u>)</p> <p>Cause: <u>Diet</u> / <u>Lifestyle</u></p> <p>- genetic also</p> <p>→ <u>Obesity</u></p> <p>Treatment: ① Diet/Exercise ② Administer _____</p>

Type 2 Diabetes ⇔ Alzheimer's Disease



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Kim YJ, et al. Circulation. In addition, an excess of FFAs and hyperglycemia leads to the activation of the applicants of apoptotic protein (UPR) and the generation of ER ER. PIP: 35335269 Free PMC article. Figure 7 Diabetic dyslipidemia: mechanisms that lead to ... Figure 7 Diabetic dyslipidemia: mechanisms leading to T2DM dyslipidemia and lipoprotein clearance in physiological dyslipidemia | Figure 7 Dyslipidemia: mechanisms that lead to T2DM dyslipidemia and lipoprotein in physiological conditions. Glut2: Glucose 2, P2X conveyor: purinase receptor X, P2Y: purinotic recipient and; IP2: 1,3-bisphosphate inositol; IP3: Inositol 1,4,5-Trisphosphate; RYR: Ryanodine receptor channel; Serca: Sarco-Endoplasmic Reticulum CA2 + -ATPase; FFA: free fatty acid, ROS: reactive oxygen species; UPR: Protein deployed response. Oxidative stress, defective mitochondrial biogenesis and deteriorated mitochondria promote mitochondrial dysfunction. PMID: 29032755 Review. The IRSS phosphorylated activate PI3K, generating PIP3 that activates PDK that results in the AKT phosphorylation. Waheed B, et al. These states affect the cellular function, resulting in a complex network of pathological changes that influence each other and lead to the perpetuation of insulin dysfunction. Generation of ROS Links mitochondrial dysfunction and go. Evid Alternat Med complement. Mol aspects med. See all articles "cited by" Oct. 2017; 9 (10): 890-893. PIP: 35408401 Free pmc article. Satin LS, PC Butler, Ha J, Sherman as. Doi: 10.1111 / 1753-0407.12581. Glucose catabolism increases the ATP / ADP ratio, the ATP-dependent potassium channels are closed to lead to the depolarization of the membrane and the opening of voltage-dependent CA2 + channels. EPUB 2017 August 22. Curr Pharmacol. 10.3390 / molecules27072102. J Diabetes. ROS rusting the proteins, damage the DNA and the membrane's lipids. Modular biogenic phytochemicals Modulate obesity: from the molecular mechanism to preventive and therapy. Therapy Doi: 10.1016 / j.mam.2015.01.003. March 2022 15: 27 (6): 1904. Oxidative stress, defective mitochondrial biogenesis and ... Figure 3 Mitochondrial dysfunction and contribution to the development of T2DM. PMID: 27189025 Review. Defronzo Ra, Ferrannini E, Groop L, Henry RR, Herman WH, Holst JJ, Hu FB, Kahn Cr, Raz I, Shulman GI, Simonson DC, Testa MA, Weiss R. This last allows CA2 + influx that activates exocytosis of insulin. The union of insulin to INSR induces the recruitment and phosphorylation of the IRSS. Sensors (Basel). Figure 4 Effects of insulin stimulation in healthy ... Figure 4 Effects of insulin stimulation in healthy and hypertrophic adipose tissue. PIP: 35408495 Free PMC Article. Figure 1 way of signal involved in insulin ... Figure 1 Signs trails involved in insulin secretion in β-cells under physiological conditions (A) and mechanisms that lead to dysfunction (B). Binding of insulin to INSR ... Figure 5 Signal paths involved in the signal of insulin in Hepatocytes. Satin LS, ET Al. Kim YJ, Chinnadayaala SR, Le Htn, Cho S. Figure 6 Factors involved in T2DM cardiovascular risk results and interactions between them. - Figure 6 factors involved in T2DM cardiovascular risk outcomes and the interactions between them. NAT Rev Dis Baits. Doi: 10.2174 / 15701115666171010115119. Doi: 10.1161 / Circulansha.118.037216. . 2022. Defects in any of the mechanisms involved in these processes can lead to a metabolic imbalance responsible for the development of the disease. April 205 5; 22 (7): 2787. 2019; 17 (2): 153-163. 2015 Apr; 42: 61-77. 2 Type 2 Diabetes Mellitus (T2DM): Figure 2 Type 2 Diabetes mellitus (T2DM) Risk factors and pathological changes that lead to ... Figure 2 Type 2 Diabetes mellitus (T2DM) Risk risk and the pathological changes that lead to the perpetuation of the dysfunction of insulin. Insulin resistance The link between T2DM and CVD: Basic mechanisms and clinical implications. March 2022 24; 27 (7): 2102. Little enzymatic detection sensitive glucose-based glucose based on the transmission of wireless data. (B) Hyperglycemia and hyperlipidemia promote oxidative schemes that leads to the generation of ROS that inhibits the mobilization of CA2 + and activates the proapoptotic signals. WENG J. (B) Under physiological conditions, the VLDL particles incorporate Apo-CII and HDL ApoE allowing VLDL to progressively lipolize to the generation of smaller VLDL particles (upper panel). Doi: 10.3390 / molecules27061904. March 2022 28; 2022: 1445604. Kumar V, et al. March 2022 27; 2022: 6852276. The additional channels of CA2 + such as P2X, P2Y, Serca and Ryr contribute to the CA2 + mobilization and insulin secretion. Abdul-Ghani Ma, Jayyousi A, Defronzo Ra, Assad N, Al-Suwaidi J. Short-term intensive insulin therapy could be the preferred option for diabetes type 2 mix 2 with HbA1C. '9. This review analyzes the key aspects of T2DM, as well as the mechanisms and molecular routes involved in the metabolism of insulin that leads to T2DM and insulin resistance. AKT is fully activated by more phosphorylation of MTORC2 and participates in several Downstream that regulate multiple metabolic processes, including glycolytic synthesis, gluconeogenesis, lipolysis and lipid synthesis. Tg: triglyceride; FFA: Free fatty acid, LPL: Lipoprotein Lipase; CR: Remaining of clammicron; HL: hepatic lipatics; CETP: Ster of cholester transfer protein; ApoE: Apolipoprotein E; ApoC-II: Apolipoprotein CII; VLDL: Lipoprotein of very low density; SLDL: Lipoprot densa The hypertrophic adipose tissue leads to the decrease in glucose capture, the synthesis of TG and improves the freedom, hypoxia and inflammation mediated by Macrophages of the FFA. El-Huneidi W, et al. Molletas. Molletas. February 12; 139 (7): 901-914. Doi: 10.1155 / 2022/6852276. Characterization of multiple commences of cognitive deterioration of type 2 diabetes mellitus in the DB / dB mouse model. El-Huneidi W, Anjum S, Saleh Ma, Bustanji and, Abu-Gharbieh E, Tanera J. In addition, because T2DM is associated with the accelerated development of atherosclerosis, we reviewed here some of the molecular mechanisms that link Resistance to insulin and insulin (IR), as well as cardiovascular risk as one of the most important complications of T2DM. Song X, et al. Defronzo Ra, et al. Mitofusin-2 and PGC 1A ± are regulated down that lead to reduced mitochondrial biogenesis. 2015 Jul 23; 1: 15019. FFA: free fatty acid. (A) IR leads to a storage of favorated adipose tissue fat, resulting in a constitutive release of the FFA of the intracellular TG stores of adipocytes. For this purpose, we summarize the data collected so far, focusing especially on insulin synthesis, the liberation of insulin, the detection of insulin and the subsequent effects on individual insulin sensitive organs. Waheed B, Mukarram Shah SM, Hussain F, Khan MI, Zeb A, Jan Ems, Wu HK, Zhang and, Cao Cn, Hu X, Fang M, Yao Y, Jin L, Chen G, Jiang P, Zhang S, Song R, Peng W, Liu F, Guo J, Tang L, He, Shan D, Huang J, Zhou Z, Wang DW, LV F, Xiao RP: EPUB 2015 January 28. 2015. As a consequence of nutrient overload, the supply of electrons to mitochondrial increases, etc. and the excess electrons is transferred to the generation of oxygen O2 * and H2O2. PIP: 35389304 Free PMC article. Doi: 10.1155 / 2022/1445604. Pulstel insulin secretion, glucose tolerance with disability and type 2 diabetes 2. INSRIT: insulin receptor; PIP2: Inositol 1,3-bisphosphate; PIP3: Inositol 1,4,5-Trisphosphate; IRS1: Insulin receptor substrate 1; PI3K: phosphoinositide 3 MTORC2: Mammalian target of the rapamycin complex 2; Pdk1: kinase-1 dependent on phosphoinositides; AKT: protein kinase B; AS160: AKT substrate of 160 kDa; Glut4: Transporter glucose 4; GSK3A: glycogen synthase kinase 3 3 GS: glycogen synthase; FOXO1: O1 Taburera Box; G6PC: glucose 6 phosphate; PCK1: Fosfoenolpiruvate Carboxikinase 1. PMID: 28661564 Myokine / cardiokine MM53 Glucose sensitive regulates the Sisthetic Response of Insulin and Metabolic Homeostasis. (A) The liberation of insulin is mainly triggered by a response to high glucose and glucose concentrations are mainly internalized mainly through the glut2 conveyor. Hyperglycemia derived from T2DM, hyperinsulinemia and going cause endothelial dysfunction, diabetic dyslipidemia and inflammation that leads to ECV. Complex combinations of genetic, metabolic and environmental factors that interact between SA constitute both the ethnicity and family history / genetic / predisposition) and modifiable risk factors (obesity, low physical activity and a diet unhealthy). T2DM and go diaguar the metabolism and the liquidation of quilomycros and VLDLs. The activation of CETP promotes an exchange of Tg out of RLPS and incorporates CE from HDL and LDL particles that lead to reduced levels of circulation HDL-C and an increase in more Aceroglic particles SLDL (lower panel). The production of cellular and ROS strength contributes to greater mitochondrial physiy and deteriorated mythophane. Song X, Zhu Z, Qian X, Liu X, Chen S, Tang H. 2017. The released FFA are absorbed by hepatocytes, where they can be directed to mitochondria and submit to P-oxidation; be re-assimilated in TG to particles new VLDL particles; displaced to the gluconeogens that results in a worsening of hyperglycemia; or stored as Tg that leads to hepatic steatosis. Visualization options AbstractPubMedpmid type 2 Diabetes mellitus (T2DM), one of the most common metabolic disorders, is caused by a combination of two primary factors: the defective secretion of the By the cells of the pancreatic β and the inability of insulin-sensitive tissues to adequately respond to insulin. In healthy adipose tissue insulin stimulates the capture of glucose and the synthesis of

Wd, induces PFA PFA And decreases inflammation mediated by macrophages. PMID: 30586741 The carnotic acid protects the Ins-1 P cells against the damage induced by streptozotocin by inhibiting apoptosis and improving insulin secretion and glucose capture. Keywords: adipocyte; cardiovascular disease; insulin resistance; Hyd; mission; Physiopathology; Diabetes mellitus type 2; P-Celand. Because the liberation and activity of insulin are essential processes for the homeostasis of glucose, the molecular mechanisms involved in the synthesis and the liberation of insulin, as well as in its detection are well regulated. Synthesis, antioxidants and antidiabetic activities of succinimide ketone derivatives. The flow diagram illustrates the multiple interactions between the factors involved. PCG 1Å Å Å Å ±: Receiver-Gamma-Gamma-Gamma-1 Peroxisoma. Doi: 10.3390 / S22072787. Check. In healthy adipose tissue ... Figure 4 Effects of insulin stimulation in healthy and hypertrophic adipose tissue. The revision also covers the pathological conditions that perpetuate T2DM, such as nutritional factors, physical activity, intestinal dysbiosis and metabolic memory. Figure 5 tracks of signal involved in insulin. Figure 5 tracks of signal involved in the signal of insulin in hepatocytes. Doi: 10.1038 / nrdp.2015.19. ECOLLECTION 2022. Type 2 diabetes mellitus. High levels of sustained glucose increase the biosyna of proinsulin and IAAP, which generate Ros. Kumar V, Singh Dd, Lakhawat SS, Yasmeen N, Pandey A, Singla Rk. ROS: reactive species of oxygen; ER: Endoplasmic reticulum; Ages: Advanced final glycation products; PKC: protein kinase C; LPS: Lipolysis; Mirna: Micronna. PIP: 35388310 Free PMC article. Weng J, Abdul-Ghani Ma, et al. The authors declare any conflict of interest. Figure 3 mitochondrial dysfunction and contribution to Figure 3 Mitochondrial dysfunction and contribution to the development of T2DM. growth. growth.

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