

*A partire dal mese di Aprile 2021, nuovi soci assumeranno il ruolo di esperti delle varie aree del servizio “Journal Club”, pertanto in questo numero abbiamo voluto presentare, per ciascuna delle tematiche, il commento che maggiormente ha suscitato l’attenzione dei lettori tra quelli preparati dai redattori che ci hanno accompagnato in questi ultimi due anni e lasciano ora questo compito.*

### **Altri organi bersaglio nella patogenesi del diabete di tipo 2**

#### **Il ritmo del diabete - A cura di Maria Ida Maiorino**

Mason IC, Qian J, Adler GK, Scheer FAJL. Impact of circadian disruption on glucose metabolism: implications for type 2 diabetes. *Diabetologia* 63(3): 462-472, 2020.

Link al commento del Journal Club: Impact of circadian disruption on glucose metabolism: implications for type 2 diabetes (siditalia.it)

### **Aspetti molecolari nella patogenesi del diabete di tipo 2**

#### **Il sitagliptin riduce la mortalità nei pazienti con COVID-19- A cura di Teresa Vanessa Fiorentino**

Solerte SB, D’Addio F, Trevisan R, Lovati E, Rossi A, Pastore I, Dell’Acqua M, Ippolito E, Scaranna C, Bellante R, Galliani S, Dodesini AR, Lepore G, Geni F, Fiorina RM, Catena E, Corsico A, Colombo R, Mirani M, De Riva C, Oleandri SE, Abdi R, Bonventre JV, Rusconi S, Folli F, Di Sabatino A, Zuccotti G, Galli M, Fiorina P. Sitagliptin Treatment at the Time of Hospitalization Was Associated With Reduced Mortality in Patients With Type 2 Diabetes and COVID-19: A Multicenter, Case-Control, Retrospective, Observational Study. *Diabetes Care* 43(12): 2999-3006, 2020.

Link al commento del Journal Club: Sitagliptin Treatment at the Time of Hospitalization Was Associated With Reduced Mortality in Patients With Type 2 Diabetes and COVID-19: A Multicenter, Case-Control, Retrospective, Observational Study (siditalia.it)

### **Automonitoraggio glicemico e microinfusori**

#### **In quanto tempo l’algoritmo di un sistema HCL impara ad adattarsi al suo utilizzatore? - A cura di Giuseppe Lepore**

Leelarathna L, Thabit H, Willinska ME, Bally L, Mader JK, Arnolds S, Benesch C, Pieber TR, Shah VN, Carlson AL, Bergenstal RM, Evans ML, Hovorka R on behalf of AP@home04 and APCam11 consortia. Duration of Hybrid Closed-Loop Insulin Therapy to Achieve Representative Glycemic Outcomes in Adults With Type 1 Diabetes. *Diabetes Care* 43(3): e38-e39, 2020.

Link al commento del Journal Club: Duration of Hybrid Closed-Loop Insulin Therapy to Achieve Representative Glycemic Outcomes in Adults With Type 1 Diabetes (siditalia.it)

### **Sistema ibrido ad ansa chiusa ed esercizio fisico: strumento clinico e modello sperimentale ideale per i pazienti con ipoglicemia inavvertita - A cura di Lutgarda Bozzetto**

Lee MH, Vogrin S, Paldus B, Jayawardene D, Jones HM, McAuley SA, Obeyesekere V, Gooley J, La Gerche A, MacIsaac RJ, Sundararajan V, Jenkins AJ, Ward GM, O’Neal DN. Glucose and Counterregulatory Responses to Exercise in Adults With Type 1 Diabetes and Impaired Awareness of Hypoglycemia Using Closed-Loop Insulin Delivery: A Randomized Crossover Study. *Diabetes Care*. 2020 Feb 43(2): 480-483.

Link al commento del Journal Club: Glucose and Counterregulatory Responses to Exercise in Adults With Type 1 Diabetes and Impaired Awareness of Hypoglycemia Using Closed-Loop Insulin Delivery: A Randomized Crossover Study (siditalia.it)

### **Beta e alfa cellule e ormoni incretinici nel diabete di tipo 2**

#### **STAY TUNED! È in arrivo la molecola del futuro per la terapia a tutto spettro del diabete - A cura di Francesca Urbano**

Thielen LA, Chen J, Jing G, Moukha-Chafiq O, Xu G, Jo S, Grayson TB, Lu B, Li P, Augelli-Szafran CE, Suto MJ, Kanke M, Sethupathy P, Kim JK, Shalev A. Identification of an Anti-diabetic, Orally Available Small Molecule that Regulates TXNIP Expression and Glucagon Action. *Cell Metabolism* 2020 Sep 1; 32(3): 353-365.e8.

Link al commento del Journal Club: Identification of an Anti-diabetic, Orally Available Small Molecule that Regulates TXNIP Expression and Glucagon Action (siditalia.it)

### **CVD nel diabete**

#### **GLP-1: marcatore prognostico per il cardiologo oltre che strumento terapeutico per il diabetologo - A cura di Teresa Salvatore**

Kahles F, Rückbeil MV, Mertens RW, Foldenauer AC, Arrivas MC, Moellmann J, Lebherz C, Biener M, Giannitsis E, Katus HA, Marx N, Lehrke M. Glucagon-like peptide 1 levels predict cardiovascular risk in patients with acute myocardial infarction. *Eur Heart J.* 2020 Feb 14; 41(7): 882-889.

Link al commento del Journal Club: Glucagon-like peptide 1 levels predict cardiovascular risk in patients with acute myocardial infarction (siditalia.it)

### **Epidemiologia del diabete e suoi fattori di rischio: costi e modelli assistenziali**

#### **Educazione ed economia: le cattive abitudini sono dure a morire - A cura di Marco Dauriz e Claudia Menzaghi**

Peterson KA, Carlin C, Solberg LI, Jacobsen R, Kriel T, Eder M. Diabetes Prevalence and Its Relationship With Education, Wealth, and BMI in 29 Low- and Middle-Income Countries. *Diabetes Care.* 2020 Apr; 43(4): 767-775.

Link al commento del Journal Club: Diabetes Prevalence and Its Relationship With Education, Wealth, and BMI in 29 Low- and Middle-Income Countries (siditalia.it)

### **Genetica del diabete e delle complicanze**

#### **Resistenza insulinica in gravidanza, sono coinvolti GCKR e acido palmitoleico - A cura di Gaia Chiara Mannino**

Liu Y, Kuang A, Talbot O, Bain JR, Muehlbauer MJ, Hayes MG, Ilkayeva OR, Lowe LP, Metzger BE, Newgard CB, Scholtens DM, Lowe WL Jr, HAPO Study Cooperative Research Group. Metabolomic and genetic associations with insulin resistance in pregnancy. *Diabetologia.* 2020 Jun 18. doi: 10.1007/s00125-020-05198-1.

Link al commento del Journal Club: Metabolomic and genetic associations with insulin resistance in pregnancy (siditalia.it)

### **Gravidanza**

#### **La polmonite da coronavirus in gravidanza non sembra togliere gioia alla vita che nasce... - A cura di Marina Scavini e Veronica Resi**

Liu D, Li L, Wu X, Zheng D, Wang J, Yang L, Zheng C. Pregnancy and Perinatal Outcomes of Women With Coronavirus Disease (COVID-19) Pneumonia: A Preliminary Analysis. *AJR Am J Roentgenol.* 2020 Mar 18: 1-6.

Link al commento del Journal Club: Pregnancy and Perinatal Outcomes of Women With Coronavirus Disease (COVID-19) Pneumonia: A Preliminary Analysis (siditalia.it)

### Insulino-resistenza

#### **Mantenere il peso stabile dopo dieta prolunga il ripristino della funzione beta cellulare nel tempo - A cura di Teresa Mezza**

Zhyzhneuskaya SV, Al-Mrabeh A, Peters C, Barnes A, Aribisala B, Hollingsworth KG, McConnachie A, Sattar N, Lean MEJ, Taylor R. Time Course of Normalization of Functional  $\beta$ -Cell Capacity in the Diabetes Remission Clinical Trial After Weight Loss in Type 2 Diabetes. *Diabetes Care* 43(4): 813-820, 2020.

Link al commento del Journal Club: Time Course of Normalization of Functional  $\beta$ -Cell Capacity in the Diabetes Remission Clinical Trial After Weight Loss in Type 2 Diabetes ([siditalia.it](http://siditalia.it))

### Iipertensione e diabete

#### **SGLT2: un'inibizione e mille e una meraviglia; e non finisce qui! - A cura di Biagio Arcidiacono**

Böhm M, Fitchettb D, Pernille Ofstadc A, Brueckmannd M, Kaspersd S, Georged JT, Zwienerf, Bernard Zinmang I, Wannerh C, Marxi N, Manciaj G, Ankerk SD, Mahfouda F. Heart failure and renal outcomes according to baseline and achieved blood pressure in patients with type 2 diabetes: results from EMPA-REG OUTCOME. *Journal of Hypertension* 38(9): 1829-1840, 2020.

Link al commento del Journal Club: Heart failure and renal outcomes according to baseline and achieved blood pressure in patients with type 2 diabetes: results from EMPA-REG OUTCOME ([siditalia.it](http://siditalia.it))

#### **Controllo della pressione arteriosa ed associazione con l'incidenza di diabete mellito: uno SPRINT dall'ipertensione al diabete - A cura di Angela Sciacqua**

Roumie CL, Hung AM, Russell GB, et al; SPRINT Research Group. Blood Pressure Control and the Association With Diabetes Mellitus Incidence: Results From SPRINT Randomized Trial. *Hypertension*. 2020 Feb; 75(2): 331-338.

Link al commento del Journal Club: Blood Pressure Control and the Association With Diabetes Mellitus Incidence: Results From SPRINT Randomized Trial ([siditalia.it](http://siditalia.it))

### Mortalità, tumori ed altri tipi di danno d'organo

#### **Si vive di più e meglio con un corretto stile di vita! - A cura di Laura Sciacca**

Li Y, Schoufour J, Wang DD, Dhana K, Pan A, Liu X, Song M, Liu G, Shin HJ, Sun Q, Al-Shaar L, Wang M, Rimm EB, Hertzmark E, Stampfer MJ, Willett WC, Franco OH, Hu FB. Healthy lifestyle and life expectancy free of cancer, cardiovascular disease, and type 2 diabetes: prospective cohort study. *BMJ* 368: l6669, 2020.

Link al commento del Journal Club: Healthy lifestyle and life expectancy free of cancer, cardiovascular disease, and type 2 diabetes: prospective cohort study ([siditalia.it](http://siditalia.it))

### Nefropatia

#### **DMT2 e DKD non-albuminurica: divergente rischio di ESRD e di mortalità - A cura di Giuseppe Penno**

Buyadaa O, Magliano DJ, Salim A, Koye DN, Shaw JE. Risk of Rapid Kidney Function Decline, All-Cause Mortality, and Major Cardiovascular Events in Nonalbuminuric Chronic Kidney Disease in Type 2 Diabetes. *Diabetes Care* 43: 122-129, 2020.

Link al commento del Journal Club: Risk of Rapid Kidney Function Decline, All-Cause Mortality, and Major Cardiovascular Events in Nonalbuminuric Chronic Kidney Disease in Type 2 Diabetes ([siditalia.it](http://siditalia.it))

### Neuropatia

#### **Neuropatia diabetica: cosa ci riserva il futuro? - A cura di Concetta Irace**

Callaghan BC, Gallagher G, Fridman V, Feldman EL. Diabetic neuropathy: what does the future hold? *Diabetologia* 63: 891-897, 2020.

Link al commento del Journal Club: Diabetic neuropathy: what does the future hold? ([siditalia.it](http://siditalia.it))

**Nutrizione, Lipidi e Diabete****COVID-19 e malnutrizione: sempre colpa del diabete! - A cura di Maria Masulli**

Li T, Zhang Y, Gong C, Wang J, Liu B, Shi L, Duan J. Prevalence of malnutrition and analysis of related factors in elderly patients with COVID-19 in Wuhan, China. *Eur J Clin Nutr* 74(6): 871-875, 2020.

Link al commento del Journal Club: Prevalence of malnutrition and analysis of related factors in elderly patients with COVID-19 in Wuhan, China ([siditalia.it](http://siditalia.it))

**Obesità e Tessuto adiposo****Servono Dietisti per curare l'obesità già presso il medico di famiglia - A cura di Silvio Buscemi**

Jacobs M, Harris J, Craven K, Sastre L. Sharing the 'weight' of obesity management in primary care: integration of registered dietitian nutritionists to provide intensive behavioural therapy for obesity for Medicare patients. *Fam Pract* 38(1): 18-24, 2021.

Link al commento del Journal Club: Sharing the 'weight' of obesity management in primary care: integration of registered dietitian nutritionists to provide intensive behavioural therapy for obesity for Medicare patients ([siditalia.it](http://siditalia.it))

**Terapia del diabete: dieta e farmaci****Canagliflozin e amputazioni: una storia (in)finita... - A cura di Matteo Monami**

Heyward J, Mansour O, Olson L, Singh S, Alexander GC. Association between sodium-glucose cotransporter 2 (SGLT2) inhibitors and lower extremity amputation: A systematic review and meta-analysis. *PLoS One*. 2020 Jun 5; 15(6): e0234065.

Link al commento del Journal Club: Association between sodium-glucose cotransporter 2 (SGLT2) inhibitors and lower extremity amputation: A systematic review and meta-analysis ([siditalia.it](http://siditalia.it))

**Trapianti e Medicina Rigenerativa****Un marcatore predittivo di successo per il trapianto di isole - A cura di Margherita Occhipinti**

Oancea AR, Omori K, Orr C, Rawson J, Dafoe DC, Al-Abdullah IH, Kandeel F, Mullen Y. Inflammatory biomarkers in the blood and pancreatic tissue of organ donors that predict human islet isolation success and function. *Islet* 12(1): 9-19, 2020.

Link al commento del Journal Club: Inflammatory biomarkers in the blood and pancreatic tissue of organ donors that predict human islet isolation success and function ([siditalia.it](http://siditalia.it))