

Diabetes mellitus Typ 1 – neue Entwicklungen in der intensivierten Insulintherapie

Diabète sucré de type 1 – nouveaux développements dans l'insulinothérapie intensifiée

Literatur / Références

- 1 Allemann S, Saner C, Zwahlen M, Christ ER, Diem P, Stettler C. Long-term cardiovascular and non-cardiovascular mortality in women and men with type 1 and type 2 diabetes mellitus: a 30-year follow-up in Switzerland. *Swiss Med Wkly*. 2009 Oct 3;139(39-40):576-83. PubMed PMID: 19838876. eng.
- 2 The Diabetes Control and Complications Trial Research Group. The effect of intensive treatment of diabetes on the development and progression of long-term complications in insulin-dependent diabetes mellitus. The Diabetes Control and Complications Trial Research Group. *The New England journal of medicine*. 1993 Sep 30;329(14):977-86. PubMed PMID: 8366922. Epub 1993/09/30. eng.
- 3 Standards of medical care in diabetes--2013. *Diabetes Care*. 2013 Jan;36 Suppl 1:S11-66. PubMed PMID: 23264422. eng.
- 4 Gerber PA, Locher R, Schmid B, Spinas GA, Lehmann R. Smoking is associated with impaired long-term glucose metabolism in patients with type 1 diabetes mellitus. *Nutr Metab Cardiovasc Dis*. 2013 Feb;23(2):102-8. PubMed PMID: 22118957. eng.
- 5 Raju B, Arbelaez AM, Breckenridge SM, Cryer PE. Nocturnal hypoglycemia in type 1 diabetes: an assessment of preventive bedtime treatments. *J Clin Endocrinol Metab*. 2006 Jun;91(6):2087-92. PubMed PMID: 16492699. eng.
- 6 Damiano ER, El-Khatib FH, Zheng H, Nathan DM, Russell SJ. A comparative effectiveness analysis of three continuous glucose monitors. *Diabetes Care*. 2013 Feb;36(2):251-9. PubMed PMID: 23275350. eng.
- 7 Deiss D, Bolinder J, Riveline JP, Battelino T, Bosi E, Tubiana-Rufi N, et al. Improved glycemic control in poorly controlled patients with type 1 diabetes using real-time continuous glucose monitoring. *Diabetes Care*. 2006 Dec;29(12):2730-2. PubMed PMID: 17130215. eng.
- 8 Garg S, Zisser H, Schwartz S, Bailey T, Kaplan R, Ellis S, et al. Improvement in glycemic excursions with a transcutaneous, real-time continuous glucose sensor: a randomized controlled trial. *Diabetes Care*. 2006 Jan;29(1):44-50. PubMed PMID: 16373894. eng.
- 9 Bergenstal RM, Tamborlane WV, Ahmann A, Buse JB, Dailey G, Davis SN, et al. Effectiveness of sensor-augmented insulin-pump therapy in type 1 diabetes. *The New England journal of medicine*. 2010 Jul 22;363(4):311-20. PubMed PMID: 20587585. eng.
- 10 Bergenstal RM, Tamborlane WV, Ahmann A, Buse JB, Dailey G, Davis SN, et al. Sensor-augmented pump therapy for A1C reduction (STAR 3) study: results from the 6-month continuation phase. *Diabetes Care*. 2011 Nov;34(11):2403-5. PubMed PMID: 21933908. eng.
- 11 Pickup JC. Insulin-pump therapy for type 1 diabetes mellitus. *The New England journal of medicine*. 2012 Apr 26;366(17):1616-24. PubMed PMID: 22533577. eng.
- 12 Lane JE, Shivers JP, Zisser H. Continuous glucose monitors: current status and future developments. *Curr Opin Endocrinol Diabetes Obes*. 2013 Feb 15. PubMed PMID: 23422244. Eng.
- 13 Cameron F, Wilson DM, Buckingham BA, Arzumanyan H, Clinton P, Chase HP, et al. Inpatient studies of a Kalman-filter-based predictive pump shutoff algorithm. *J Diabetes Sci Technol*. 2012 Sep;6(5):1142-7. PubMed PMID: 23063041. eng.
- 14 Buckingham B, Chase HP, Dassau E, Cobry E, Clinton P, Gage V, et al. Prevention of nocturnal hypoglycemia using predictive alarm algorithms and insulin pump suspension. *Diabetes Care*. 2010 May;33(5):1013-7. PubMed PMID: 20200307. eng.
- 15 Ramotowska A, Golicki D, Dzygalo K, Szymowska A. The Effect of Using the Insulin Pump Bolus Calculator Compared to Standard Insulin Dosage Calculations in Patients with Type 1 Diabetes Mellitus – Systematic Review. *Exp Clin Endocrinol Diabetes*. 2013 Jan 17. PubMed PMID: 23329581. Eng.
- 16 Sussman A, Taylor EJ, Patel M, Ward J, Alva S, Lawrence A, et al. Performance of a glucose meter with a built-in automated bolus calculator versus manual bolus calculation in insulin-using subjects. *J Diabetes Sci Technol*. 2012 Mar;6(2):339-44. PubMed PMID: 22538144. eng.

- 17 Schmidt S, Meldgaard M, Serifovski N, Storm C, Christensen TM, Gade-Rasmussen B, et al. Use of an automated bolus calculator in MDI-treated type 1 diabetes: the BolusCal Study, a randomized controlled pilot study. *Diabetes Care*. 2012 May;35(5):984–90. PubMed PMID: 22344610. eng.
- 18 Mathieu C, Hollander P, Miranda-Palma B, Cooper J, Franek E, Russell-Jones D, et al. Efficacy and Safety of Insulin Degludec in a Flexible Dosing Regimen vs Insulin Glargine in Patients With Type 1 Diabetes (BEGIN: Flex T1): A 26-Week Randomized, Treat-to-Target Trial With a 26-Week Extension. *J Clin Endocrinol Metab*. 2013 Feb 7. PubMed PMID: 23393185. Epub 2013/02/09. Eng.
- 19 Meneghini L, Atkin SL, Gough SC, Raz I, Blonde L, Shestakova M, et al. The Efficacy and Safety of Insulin Degludec Given in Variable Once-Daily Dosing Intervals Compared With Insulin Glargine and Insulin Degludec Dosed at the Same Time Daily: A 26-week, randomized, open-label, parallel-group, treat-to-target trial in people with type 2 diabetes. *Diabetes Care*. 2013 Jan 22. PubMed PMID: 23340894. Eng.
- 20 Gerber PA, Pavlicek V, Demartines N, Zuellig R, Pfammatter T, Wuthrich R, et al. Simultaneous islet-kidney vs pancreas-kidney transplantation in type 1 diabetes mellitus: a 5 year single centre follow-up. *Diabetologia*. 2008 Jan;51(1):110–9. PubMed PMID: 17973096. eng.
- 21 Lehman R, Gerber PA. [End-stage nephropathy in type 1–diabetes mellitus – kidney transplantation alone or combined with islet or pancreas transplantation?]. *Ther Umsch*. 2011 Dec;68(12):699–706. PubMed PMID: 22139985. *Der nierenkranke Patient mit Typ 1–Diabetes mellitus – Nierentransplantation allein oder mit Insel- oder Pankreastransplantation?* ger.
- 22 Phillip M, Battelino T, Atlas E, Kordonouri O, Bratina N, Miller S, et al. Nocturnal glucose control with an artificial pancreas at a diabetes camp. *The New England journal of medicine*. 2013 Feb 28;368(9):824–33. PubMed PMID: 23445093.
- 23 Kommentierte Mittel- und Gegenstände-Liste (MiGeL). 2013.