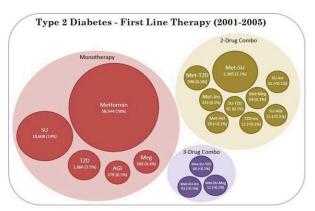
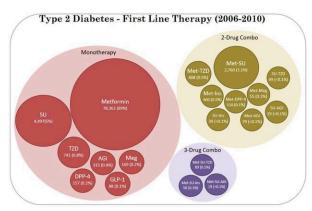
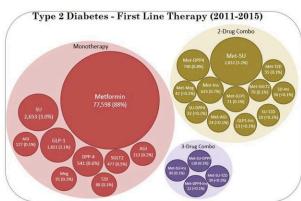


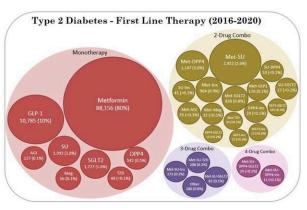
New study highlights the increasing complexity of diabetes treatment

November 15 2022, by Dr. Greg Carney









First-line therapy by period of cohort entry. AGI, alpha-glucosidase inhibitor; DPP4, dipeptidyl peptidase-4; GLP1, glucagon-like peptide-1 receptor; Ins, insulin; Meg, meglitinide; Met, metformin; SGLT2, sodium-glucose cotransporter type 2; SU, sulfonylurea; TZD, thiazolidinedione. Credit: *BMJ Open Diabetes Research & Care* (2022). DOI: 10.1136/bmjdrc-2022-002995



A study from the Therapeutics Initiative at the University of British Columbia investigated diabetes treatment patterns in British Columbia over the last two decades. The study, published in *BMJ Open Diabetes Research & Care*, highlights the increasingly complex treatment choices facing physicians and patients with type-2 diabetes and uncovered some startling trends.

A real-world study of over 300,000 adult participants treated for type 2 diabetes over the last 20 years found prescribing patterns that run contrary to treatment guideline recommendations. The use of metformin monotherapy, recommended as first line treatment in most patients, has declined by 17% over the last 10 years. The study also found that <u>initial</u> treatment has intensified, with rates of combination therapy more than doubling over the study period.

The study also found a decreasing trend in baseline blood glucose levels for newly treated patients over the last decade. Lead author Dr. Greg Carney says, "While we recognize guidelines recommend a patient-centered treatment approach, the trend towards treatment intensification, particularly among those with well-controlled blood glucose, is cause for concern. Overtreatment can put patients at increased risk of potential harms such as hypoglycemia."

The availability of new blood glucose lowering medications provides physicians with numerous treatment options. Prescribing decisions are further complicated by government reimbursement policies and evolving guideline recommendations. The researchers hope their study's findings will highlight the need for continued knowledge translation and quality improvement aimed at improving diabetes treatment.

The study included 362,391 participants newly treated with a <u>blood</u> glucose lowering medication between 2001 and 2020. The proportion of patients who received metformin monotherapy as first-line treatment



reached a maximum of 90% in 2009, decreasing to 73% in 2020. The proportion of patients starting two-drug combinations nearly doubled from 3.3% to 6.4%. Sulfonylureas were the preferred class of second-line agents over the course of the study period.

More information: Greg Carney et al, Treatment pattern trends of medications for type 2 diabetes in British Columbia, Canada, *BMJ Open Diabetes Research & Care* (2022). DOI: 10.1136/bmjdrc-2022-002995

Provided by University of British Columbia

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