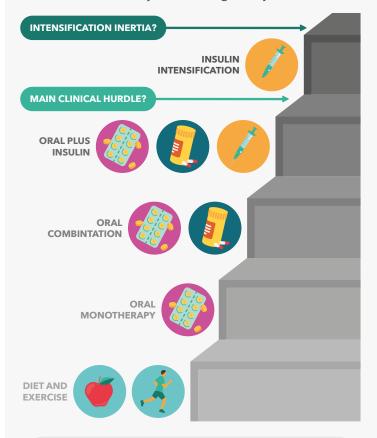


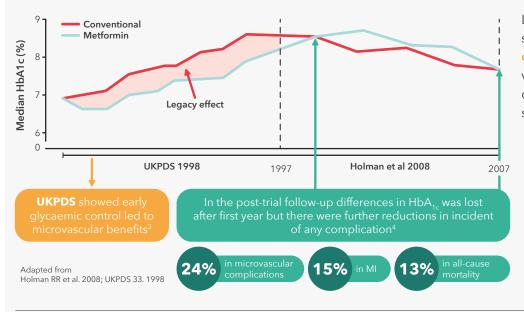
What is therapeutic inertia?

Despite the importance of maintaining good glycaemic control "therapeutic inertia" - the "failure to advance therapy or to de-intensify therapy when appropriate to do so" - has led to poor glycaemic control and worse microvascular, macrovascular and mortality outcomes globally¹⁻³



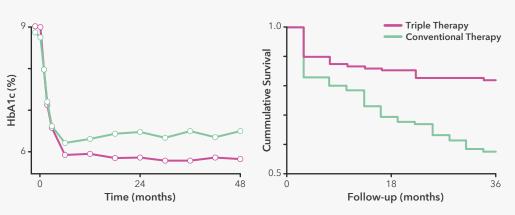
Therapeutic inertia is present throughout the disease paradigm, from the first OAD to the initiation of insulin, and even insulin intensification - so-called "intensification inertia"

Impact of early glycaemic control



Long-term studies have shown that early glycaemic control results in better vascular and mortality outcomes at later stages, the so-called "legacy effect"³⁻⁵

The **EDICT** study compared early triple therapy (metformin/pioglitazone/exenatide) with conventional therapy (metformin followed by sequential addition of sulfonylurea and insulin glargine) in newly diagnosed, drug-naïve T2DM patients



Adapted from DeFronzo RA, et al. 2016

Compared with conventional therapy, triple therapy led to:

- Significantly greater HbA_{1c} reduction
- More durable HbA_{1c} lowering
- Significant improvement in vascular and mortality outcomes at 3 years

Therapeutic Inertia





An early intensive approach has been adopted by many guidelines

ADA/EASD 2018 guideline recommended SGLT-2is and GLP-1 RAs as add-on therapies to metformin in patients with established ASCVD or CKD4

FIRST-LINE THERAPY IS METFORMIN AND COMPREHENSIVE LIFESTYLE (INCLUDING WEIGHT MANAGEMENT AND PHYSICAL ACTIVITY) IF Hba, REMAINS ABOVE TARGET PROCEED AS BELOW

ESTABLISHED ASCVD OR CKD

CLINICAL INERTIA REASSESS AND MODIFY TREATMENT **REGULARLY** (3-6 MONTHS)

TO AVOID

ASCVD PREDOMINATES

GLP-1 RA with proven CVD benefit

EITHER/ OR

SGLT2i with proven CVD benefit, if eGFR adequate

HF OR CKD PREDOMINATES

PREFERABLY

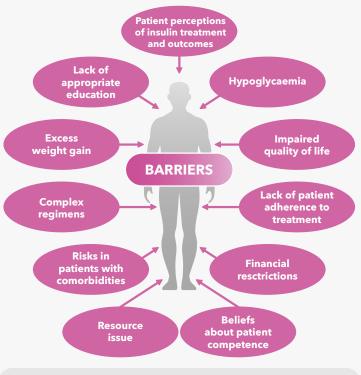
SGLT2i with evidence of reducing HF and/or CKD progression in CVOTs if eGFR adequate

If SGLT2i not tolerated or contraindicated or it eGFR less than adequate add GLP-1 RA with proven CVD benefit

Adapted from Davies MJ et al. 2018

How to mitigate therapeutic inertia?

Therapeutic inertia results from a complex interplay of patient-, clinician-, and health system-related barriers ⁷



Solutions to overcoming therapeutic inertia include individualising therapies and interventions including:

Self-examination 1 of performance by HCPs

CME on new 2 and evolving therapies

Use of allied HCPs as case managers⁸

Abbreviations: ADA, American Diabetes Association; ASCVD, atherosclerotic cardiovascular disease; CKD, chronic kidney disease; CME, continued medical education; CVD, cardiovascular disease; CVE, cardiovascular Diabetes; eGFR, estimated glomerular filtration rate; GLP-1 RA, glucagon-like peptide-1 receptor agonists; HbA, , haemoglobin A, ; HCPs, healthcare professionals; HF, heart failure; IT, treatment intensification; MI, myocardial infarction; OAD, oral antihyperglycaemic drug; SGLT2i, sodium-glucose co-transporter-2 inhibitor; T2DM, type 2 diabetes mellitus; UKPDS, The UK Prospective Diabetes Study

References: 1. Paul S, et al. Cardiovasc Diabetol 2015;14:100. 2. Khunti K et al. Prim Care Diab 2017;11:105-106. 3. UKPDS 33. Lancet. 1998; 352: 837-853. 4. Holman RR et al. N Engl J Med. 2008; 359: 1577-1589. 5. DeFronzo RA et al. 52nd EASD Annual Meeting 2016, Munich, Germany; Abstract and poster presentation 794. Available at: www.easdvirtualmeeting.org, last accessed October 2021.

4. Holman RR et al. N Engl J Med. 2008; 359: 1577-1589. 5. DeFronzo RA et al. 52nd EASD Annual Meeting 2016, Munich, Germany; Abstract and poster presentation 794. Available at: www.easdvirtualmeeting.org, last accessed 01 March, 2017. 6. Davies MJ et al. Diabetes Care 2018. Sep; dci180033. 7. Zafar A et al. Diabetic Med 2015;32:407-413. 8. Zafar A, et al. Prim Care Diabetes. 2010;4:203-7.