

SUPPLEMENTARY DATA

Supplemental Notes for Figure 2.

Data of the health workforce availability were retrieved from the Organisation for Economic Co-operation and Development Health at a Glance 2017 (1). The proportions of patients with treatment goals attainment were based on audit reports and national and epidemiological surveys (as appropriate) with some variations in data reporting and healthcare settings (2-14). For HbA_{1c} goal, the UK NDA used HbA_{1c}≤7.5% (58 mmol/mol) (4). For BP goal, the Swedish NDR used systolic BP<140 mmHg (2); the UK NDA used BP≤140/80 mmHg (4); the JDDM Study Group used systolic BP<130 mmHg (7). For LDL-C goal, the Swedish NDR used TC<6.2 mmol/L (2); the Australian audit report used LDL-C<2.5 mmol/L (3); the Canadian DM-SCAN survey used LDL-C<2 mmol/L (5); the UK NDA used TC<5 mmol/L (4); the Taiwan nationwide survey used LDL-C<2.6 mmol/L or TC<4.1 mmol/L (10); the China CCMR-3B study used TC<4.5 mmol/L (11, 12). For all ABC goals, the USA NHANES used the current definition plus smoking cessation (6); the UK NDA used HbA_{1c}≤7.5% (58 mmol/mol), BP≤140/80 mmHg, TC<5 mmol/L, and statin use (4); the Korean epidemiological survey used the current definition plus body mass index 18.5-24.9 kg/m² (8).

Abbreviations

BP, blood pressure; CCMR-3B, China Cardiometabolic Registries Nationwide Assessment of Cardiovascular Risk Factors: Blood Glucose, Blood Pressure, and Blood Lipid – 3B; DM-SCAN, Diabetes Mellitus Status in Canada; JDDM, Japan Diabetes Clinical Data Management; LDL-C, low-density lipoprotein cholesterol; NDA, National Diabetes Audit; NDR, National Diabetes Register; NHANES, National Health and Nutritional Examination Survey. To convert TC or LDL-C to mg/dL, multiply by 38.67.

References

1. OECD (2017), Health at a Glance 2017: OECD Indicators, OECD Publishing, Paris. Available from http://dx.doi.org/10.1787/health_glance-2017-en. Accessed on 24 July 2019.
2. Steinarsson AO, Rawshani A, Gudbjornsdottir S, Franzen S, Svensson AM, Sattar N. Short-term progression of cardiometabolic risk factors in relation to age at type 2 diabetes diagnosis: a longitudinal observational study of 100,606 individuals from the Swedish National Diabetes Register. *Diabetologia* 2018;61:599-606
3. Sainsbury E, Shi Y, Flack J, Colagiuri S. Burden of diabetes in Australia: its time for more action. Preliminary report. July 2018. Available from <https://sydney.edu.au/content/dam/corporate/documents/faculty-of-medicine-and-health/research/centres-institutes-groups/burden-of-diabetes-its-time-for-more-action-report.pdf>. Accessed on 24 July 2019.
4. United Kingdom National Diabetes Audit, 2017-2018: Care Processes and Treatment Targets Full Report. Health and Social Care Information Centre (HSCIC). Available from <https://digital.nhs.uk/data-and-information/publications/statistical/national-diabetes-audit/report>. Accessed on 24 July 2019.
5. Leiter LA, Berard L, Bowring CK, et al. Type 2 diabetes mellitus management in Canada: is it improving? *Can J Diabetes* 2013;37:82-89
6. Ali MK, Bullard KM, Saaddine JB, Cowie CC, Imperatore G, Gregg EW. Achievement of goals in U.S. diabetes care, 1999-2010. *N Engl J Med* 2013;368:1613-1624
7. Sakamoto M, Matsutani D, Minato S, et al. Seasonal Variations in the Achievement of Guideline Targets for HbA1c, Blood Pressure, and Cholesterol Among Patients With Type 2 Diabetes: A Nationwide Population-Based Study (ABC Study: JDDM49). *Diabetes Care* 2019;42:816-823

SUPPLEMENTARY DATA

8. Jung JH, Lee JH, Noh JW, et al. Current Status of Management in Type 2 Diabetes Mellitus at General Hospitals in South Korea. *Diabetes Metab J* 2015;39:307-315
9. Luk AOY, Hui EMT, Sin MC, et al. Declining Trends of Cardiovascular-Renal Complications and Mortality in Type 2 Diabetes: The Hong Kong Diabetes Database. *Diabetes Care* 2017;40:928-935
10. Yu NC, Su HY, Chiou ST, et al. Trends of ABC control 2006-2011: a National Survey of Diabetes Health Promotion Institutes in Taiwan. *Diabetes Res Clin Pract* 2013;99:112-119
11. Huo X, Gao L, Guo L, et al. Risk of non-fatal cardiovascular diseases in early-onset versus late-onset type 2 diabetes in China: a cross-sectional study. *Lancet Diabetes Endocrinol* 2016;4:115-124
12. Ji L, Hu D, Pan C, et al. Primacy of the 3B approach to control risk factors for cardiovascular disease in type 2 diabetes patients. *Am J Med* 2013;126:925.e911-922
13. Unnikrishnan R, Anjana RM, Deepa M, et al. Glycemic control among individuals with self-reported diabetes in India--the ICMR-INDIAB Study. *Diabetes Technol Ther* 2014;16:596-603
14. Mithal A, Majhi D, Shunmugavelu M, Talwarkar PG, Vasnwala H, Raza AS. Prevalence of dyslipidemia in adult Indian diabetic patients: A cross sectional study (SOLID). *Indian J Endocrinol Metab* 2014;18:642-647