

State of the Art of Diabetes  
Information in Europe: Snapshots  
from national registries - MALTA

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The authors DO NOT have any conflicts of interest to declare

# The Diabetes Electronic Health Records in Malta

- A national diabetes health database of patients attending diabetes clinics in primary care, secondary care or both.
- It was started in 1993 and upgraded a number of times.
- Linkage to other databases (laboratory, mortality)

# Prevalence

- There are 29,292 subjects with diabetes on the database
- Prevalence of 5.7% (total population 516,000<sup>1</sup>) of diagnosed diabetes
- Estimate by capture-recapture method (linkage to diabetes treatment database): 31,722
- Estimated Prevalence 6.2% of diagnosed diabetes
- This compares with 6.3% of diagnosed diabetes found in a recent prevalence study<sup>2</sup>
- 4.08% undiagnosed diabetes<sup>2</sup>

<sup>1</sup> Source: National Office of Statistics , Malta (March 2022)

<sup>2</sup> Cuschieri S, et al. Arch Public Health. 2016 Dec 12;74:52

**OUTCOMES**

# 3-Year Risk

- Fatal CVD disease 4.0%
- Fatal CAD: 2.3%
- Fatal CrVD: 0.84%
- All-cause Mortality: 10.1%

Reiff S, Fava S. Diabetes Metab Syndr. 2022 Apr;16:102475.

# Lower Extremity AMPUTATION

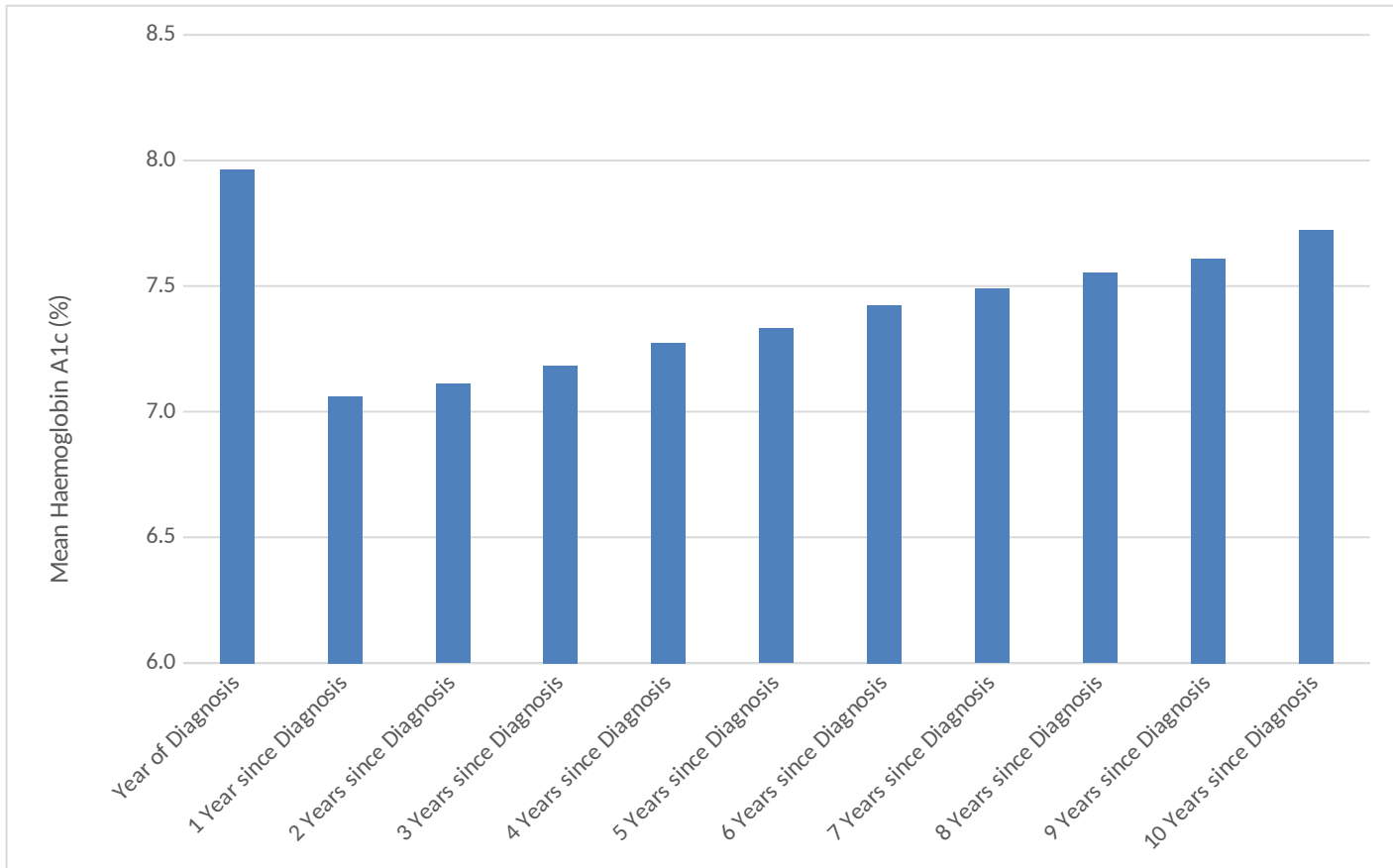
- Point Prevalence: 0.1% Above Ankle Amputation
- Incidence (2017-2021)
  - 27.2 BKA annually (0.0009 per patient year)
  - 22.4 AKA annually (0.0007 per patient year)

# 'Preventable' Admissions

- 265 Hypoglycaemia Admissions per year (2017-2021) (0.009 per patient year)
- 97.4 DKA Admissions per year (2017-2021) (0.003 per patient year)

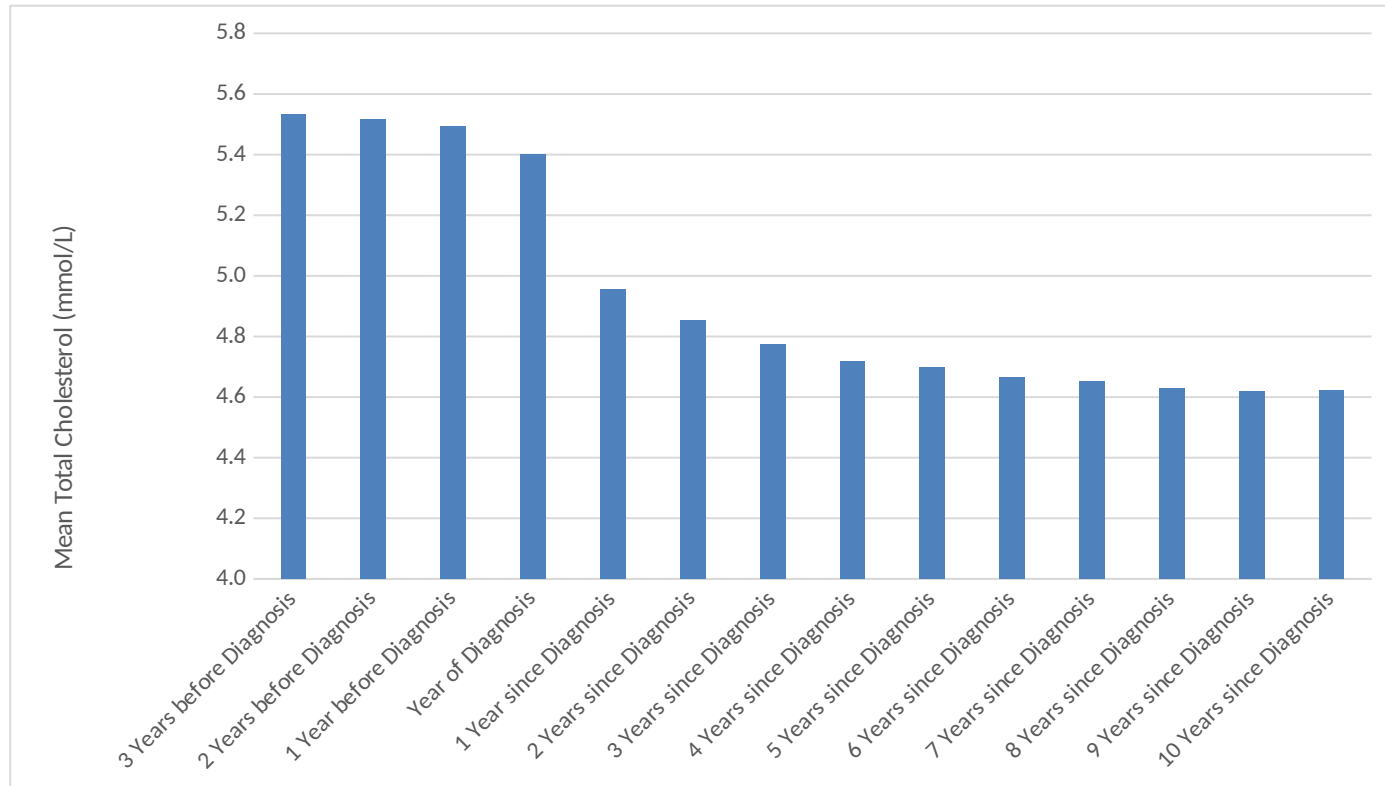


# HbA<sub>1c</sub>



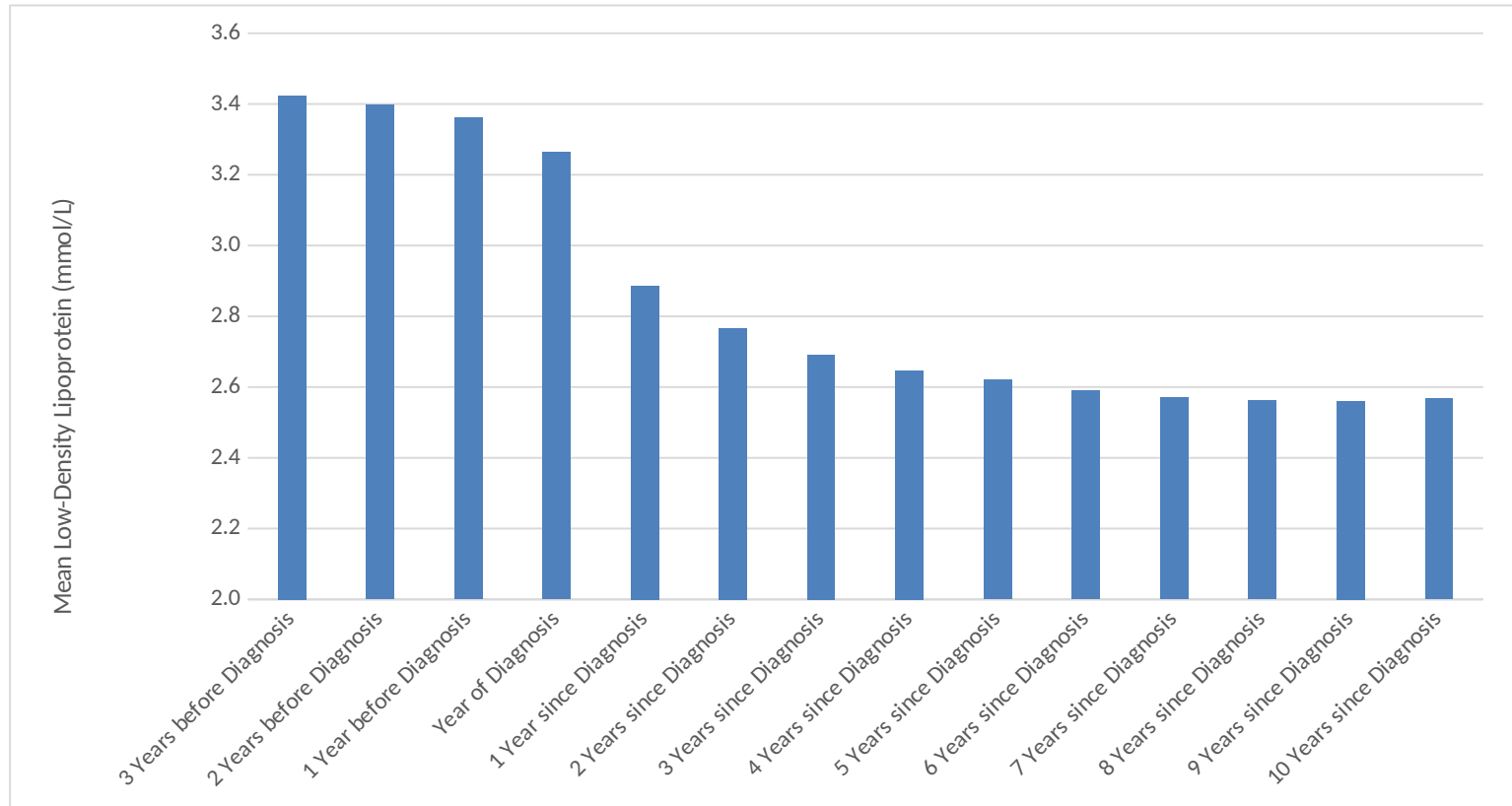
Unpublished data

# Total Cholesterol



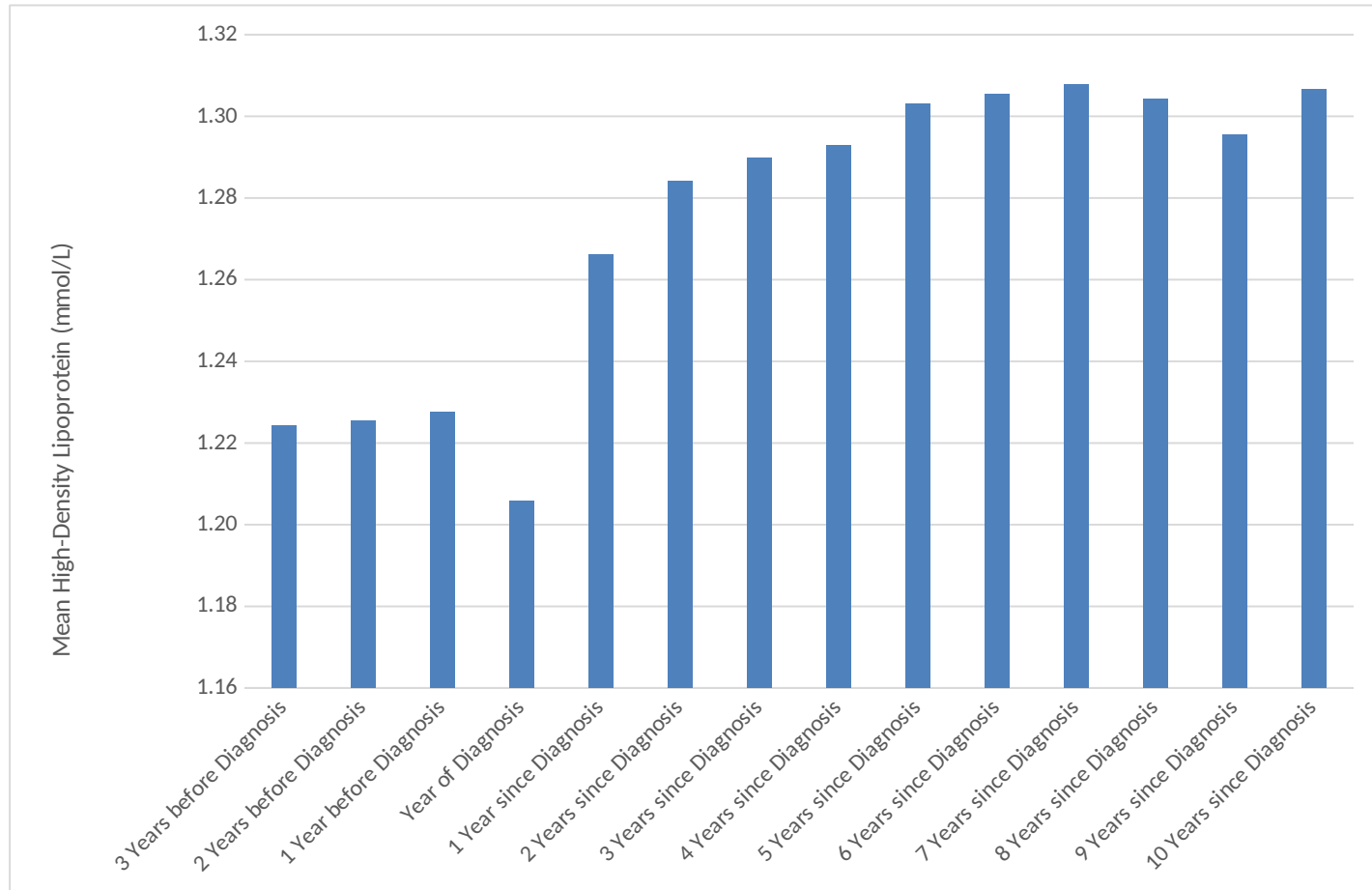
Unpublished data

# LDL-C



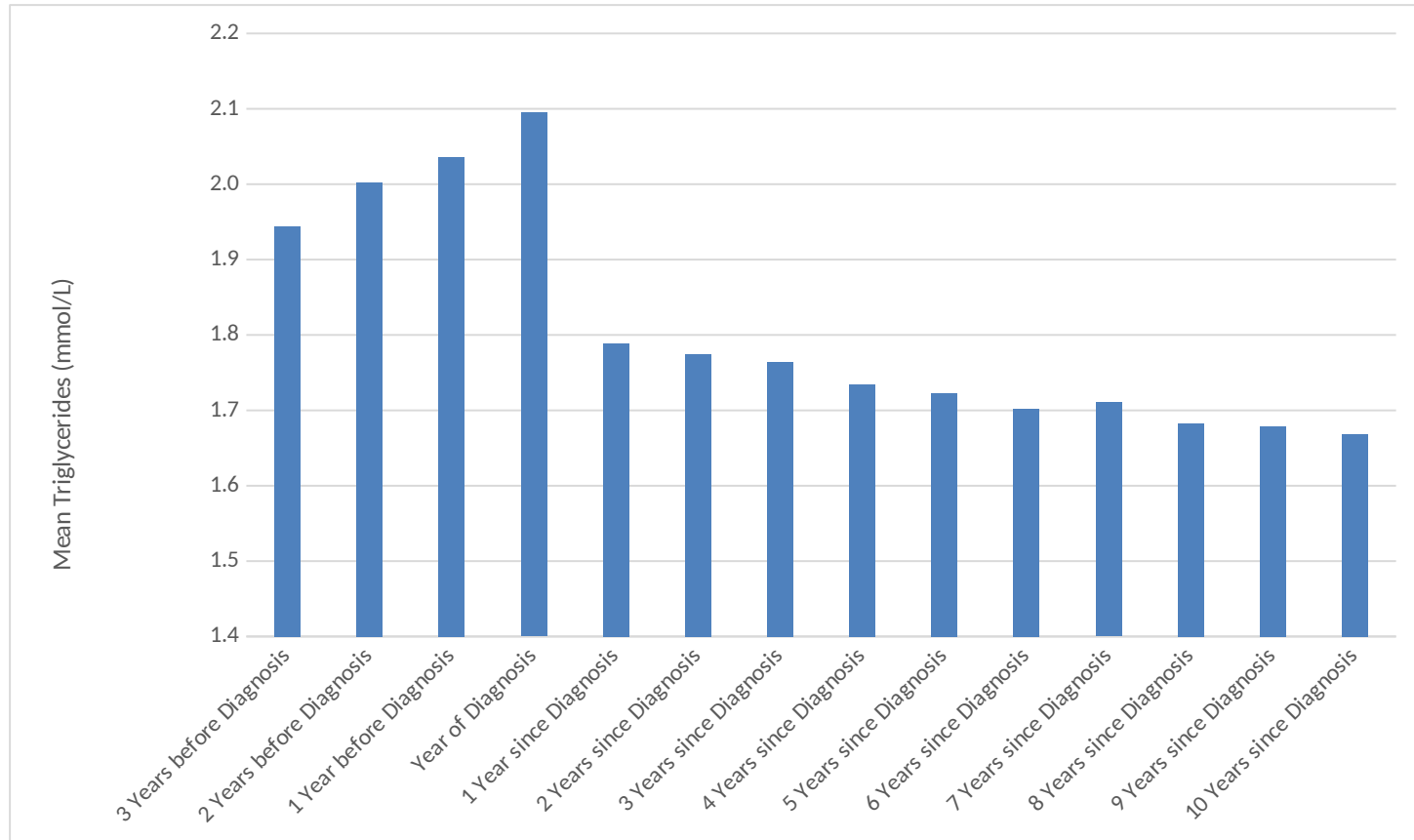
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# HDL-C



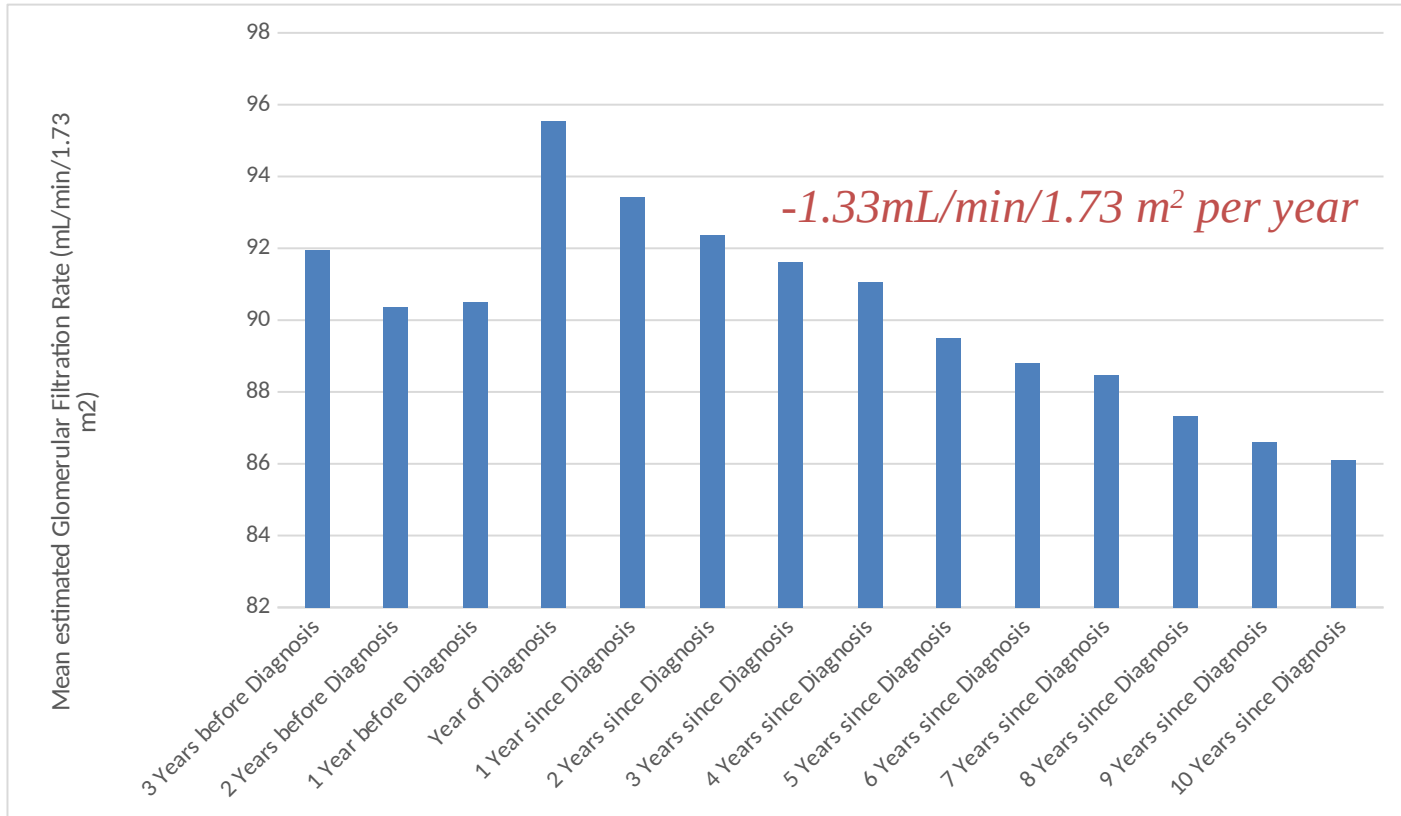
Unpublished data

# TG



Unpublished data

# eGFR



Unpublished data

# CONCLUSIONS

- A diabetes database is a powerful tool for research & audit purposes
- A database should include all patients wherever they are cared for.
- Facilitates shared care
- Should be simple to use
- Mandatory fields
- Unique identifiers to link to other databases