

Enchoraginal Inagina

in children and adolescents with type 1 diabetes

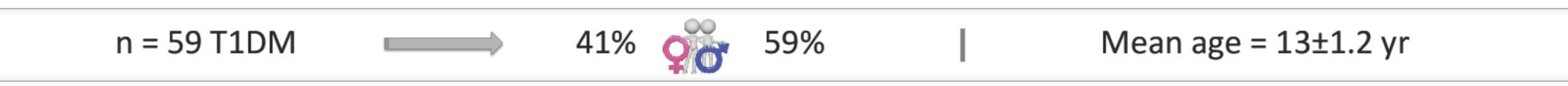
Introduction

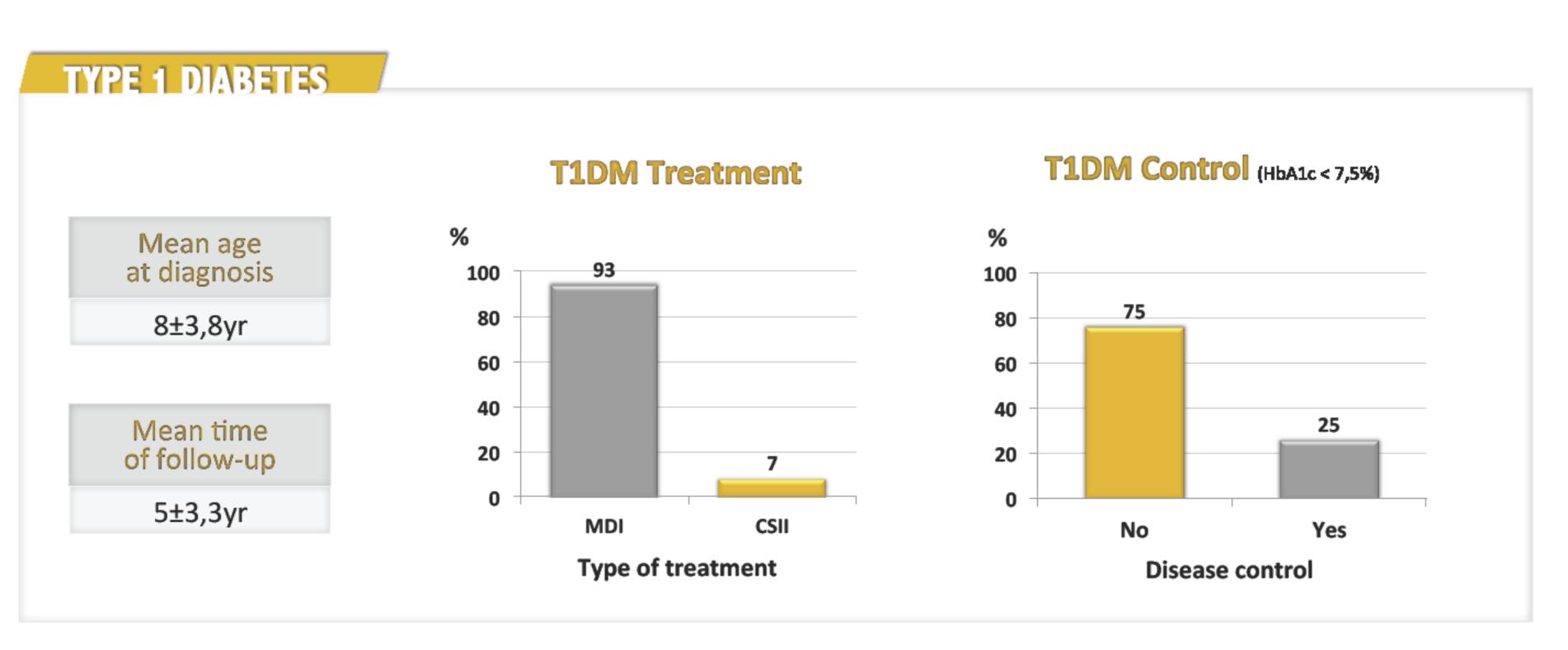
Diabetics have an increased risk of cardiovascular disease

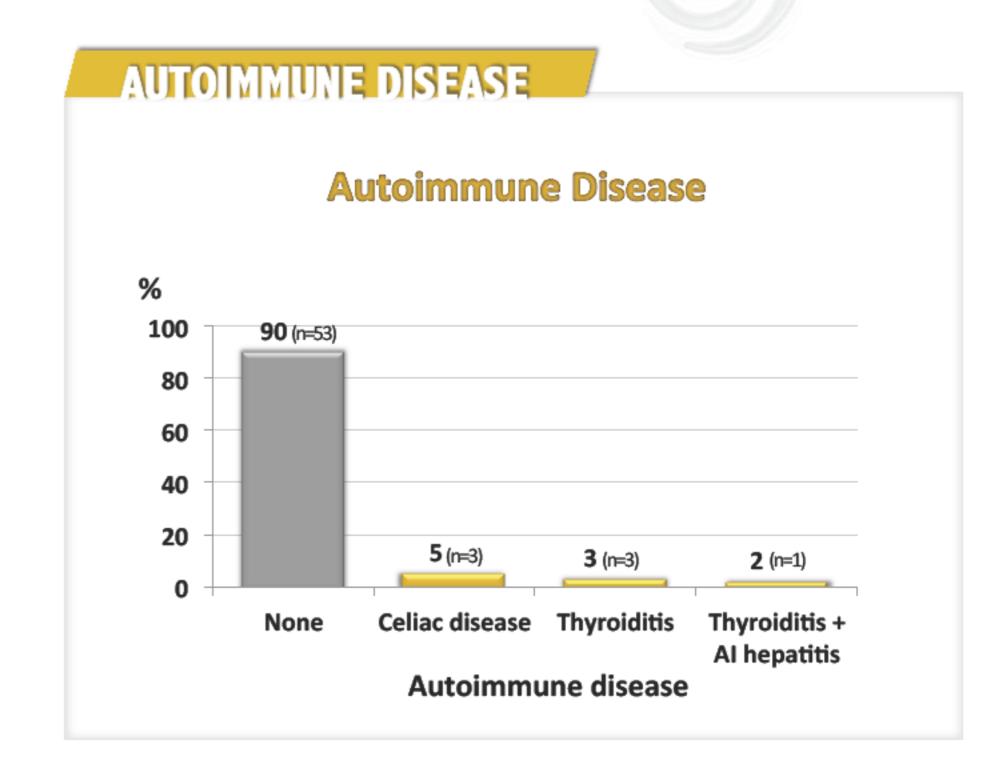
- ⇒ In young adults with type 1 diabetes mellitus (T1DM) → cardiovascular events are principal cause of premature death
- In pediatric T1DM population → 35% have 2 or more cardiovascular risk factors (cvRF)

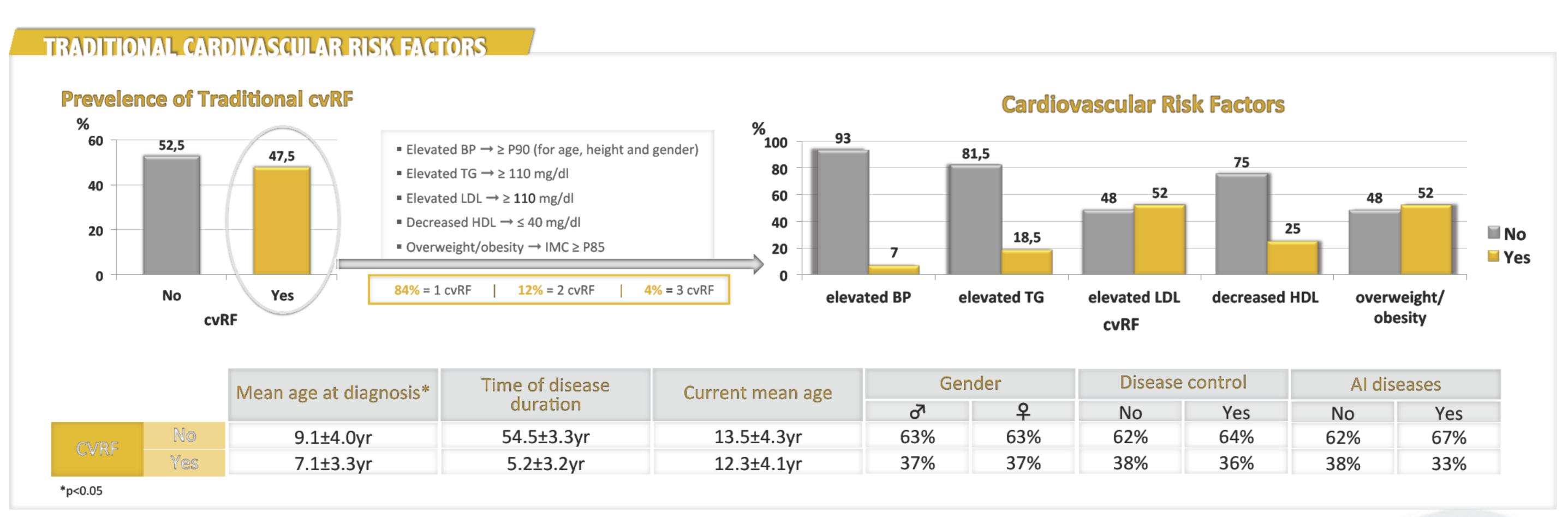
- Determine prevalence of traditional cvRF in children and adolescents with T1DM
- Identify association between presence of traditional cvRF and degree glycemic control

- Study type: retrospective hospital-based study
- **Population**: Portuguese children and adolescents with the diagnosis of T1DM
- Sample:
 - **Type:** convenience sample → T1DM patients with <18 yr followed in pediatric consultation of CHAA Guimarães
 - **Dimensions:** Total of 70 T1DM with <18 yr
 - n = 59 (diagnostic for at least one year)
- Source of information: S-clinic ® and single process
- Outcomes: age, gender, age of diagnosis, glicemic control, autoimmune (AI) disease, DM type of treatment, cvRF assessed were body mass index (BMI), blood pressure (BP), triglycerides (TG), highdensity lipoprotein cholesterol (HDL) and lowdensity lipoprotein cholesterol (LDL)
- Data analysis: IMB SPSS®21, (p < 0.05)









Conclusion

- According to our study...

 - High frequency of cvRF in children and adolescents with T1DM An early age at time of diagnosis is associated with more elevated prevalence of cvRF, and it was independent of disease duration
- Early intervention should be considered in all patients at risk ■ Importance of early and systematic screening for cardivascular risk factors

Bibliography: Expert Panel on Integrated Guidelines for Cardiovascular risk factors in children and Adolescents: Summary Report. Pediatrics, 2011, Volume 128, Supplement 6, December; H. D. Margeirsdottir, J. R. Larsen, C. Brunborg, N. C. Overby, K. Dahl-Jorgensen. High prevalence of cardiovascular risk factors in children and adolescents with type 1 diabetes: a population-based study. Diabetelogia, 2008, 51:554–561; Pambianco G., Costacou T., Orchard T. The Prediction of Major Outcomes of Type 1 Diabetes: a 12-Year Prospective Evaluation of Three Separate Definitions of the Metabolic Syndrome and Their Components and Estimated Glucose Disposal Rate. Diabetes Care 30:1248–1254, 2007. The SEARCH for Diabetes in Youth Study. Prevalence of Cardiovascular risk in type 1 diabetes mellitus. Indian J Endocrinol Metab. 2013 Oct; 17(Suppl1): S7–S13.



Diabetes 2

