

Duchenne muscular dystrophy (DMD) is a rare disease that causes a progressive loss of muscle function in males, presenting at the age of two years, and involving respiratory and heart function starting from teenage years. The identification of DMD through real-world data (e.g., administrative healthcare data) is still challenging.

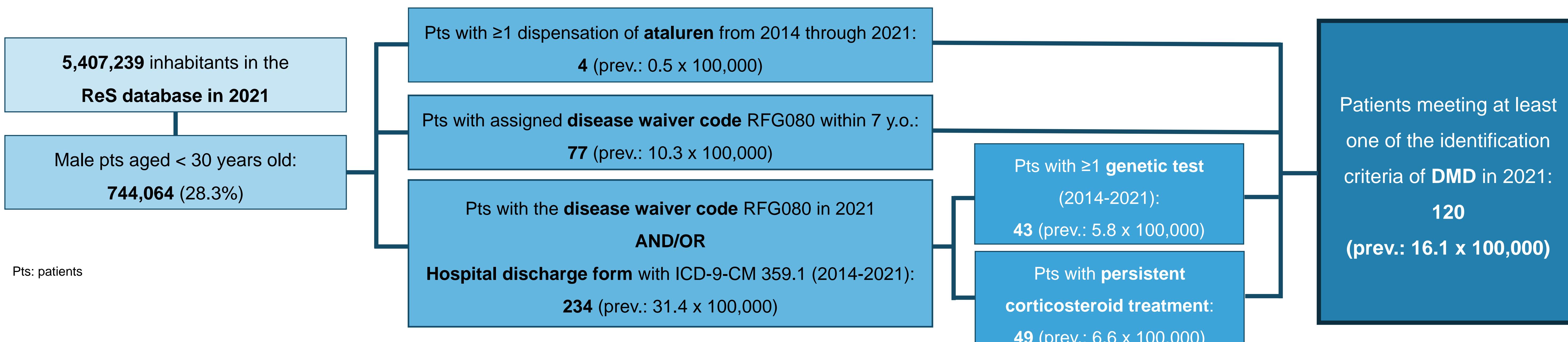
→ **AIMS:** To identify patients potentially affected by DMD (prevalence) and describe the demographics and clinical characteristics (i.e., comorbidities).

Retrospective observational and longitudinal cohort study through the **administrative healthcare database** of Fondazione Ricerca e Salute (ReS)

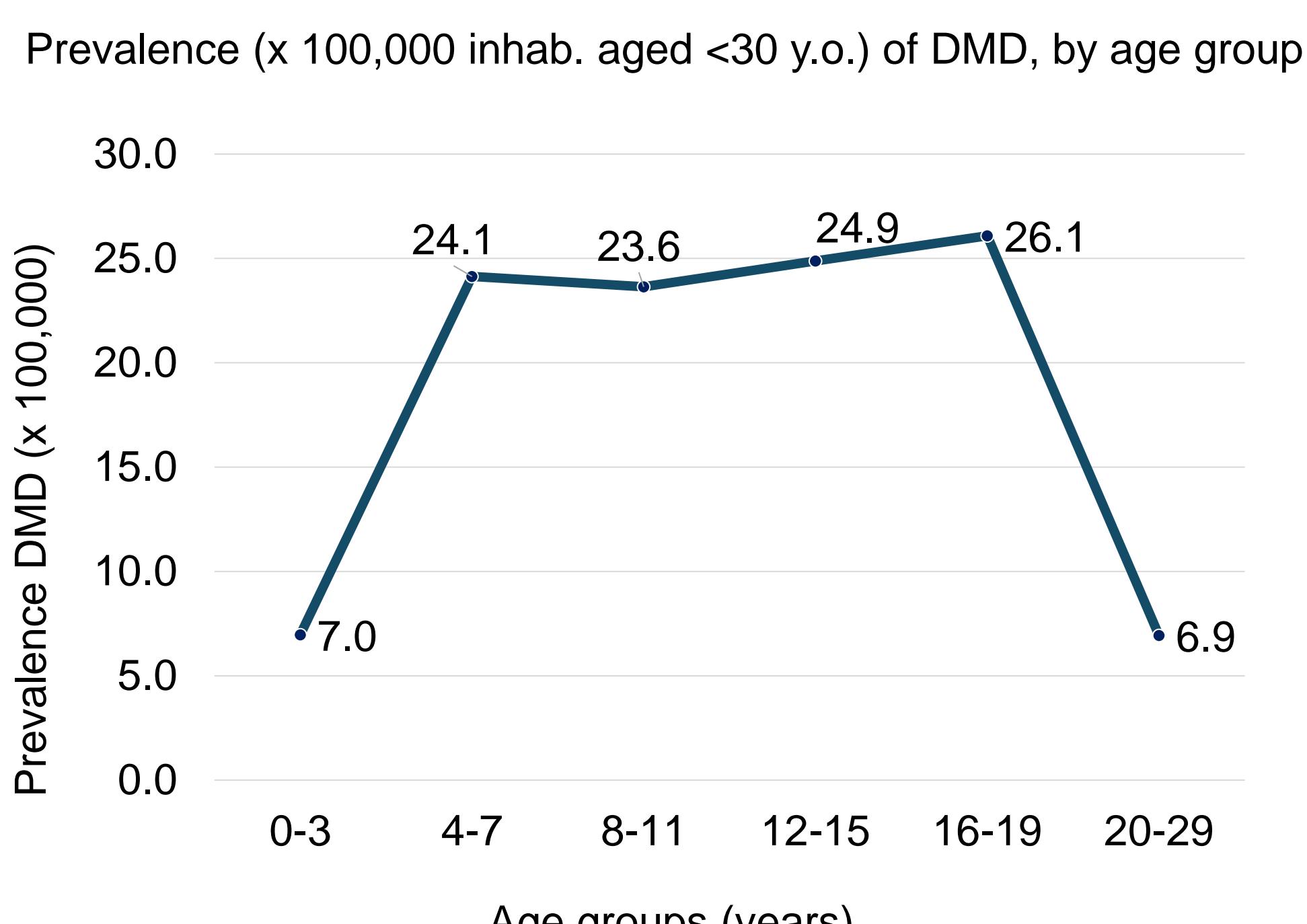
CRITERIA for the IDENTIFICATION of the study population

- Male patients aged < 30 years old during the accrual period (from 1st January to 31st December 2021)
- Patients meeting at least one of the following criteria:
 - ❖ At least one reimbursed **dispensation of ataluren** (ATC code: M09AX03) during the accrual period and/or the available look-back period (max. 7 years);
 - ❖ Assignment of the **disease waiver code from co-payment** of fee related to muscular dystrophies (**RFG080**) **within 7 years of age**;
 - ❖ Presence of the **disease waiver code** RFG080 in the accrual period AND/OR **admission to hospital/emergency department** with diagnosis of hereditary progressive muscular dystrophy (ICD-9-CM code: 359.1) during the accrual period and/or the 7-year look-back period, together with:
 - A previous **genetic test** performed in local outpatient specialist settings (Italian codes);
 - AND/OR a **persistent** (i.e., ≥3 months) treatment with **corticosteroids for systemic use** (i.e., prednisolone - ATC code: H02AB06; prednisone - H02AB07; deflazacort - H02AB13) during the year of follow-up;

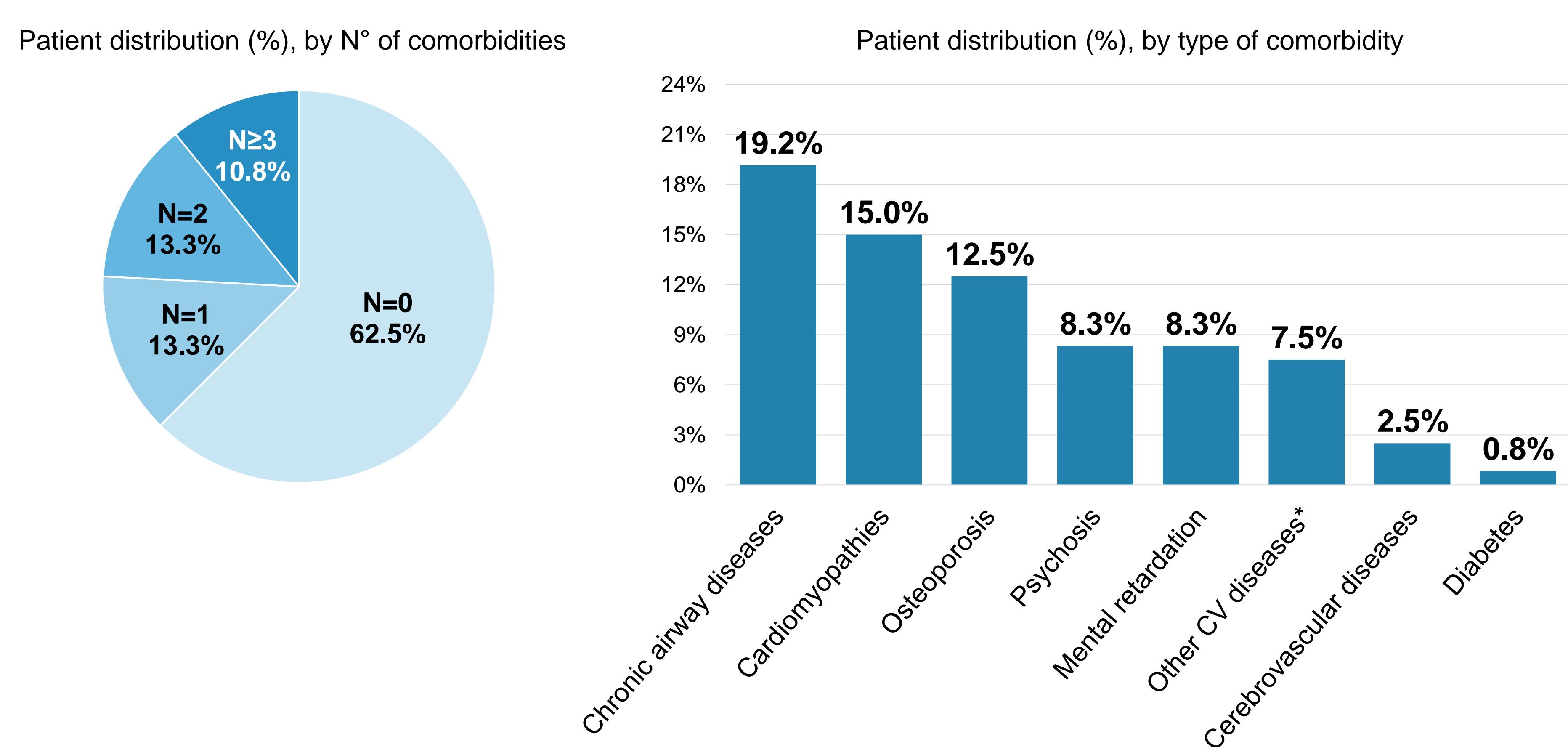
Identification of the study population



Demographics



Comorbidities



CONCLUSIONS

DMD is a rare disease. Its **epidemiology** and the **clinical burden** of patients potentially affected by DMD have been readily identified through **real-world data**, such as administrative healthcare data, despite the need for different algorithms and proxies. These findings are useful for Italian **pre-marketing regulatory** steps, thanks to the quantification of patients eligible to innovative therapeutics for DMD.



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the poster!

Conflict of interest: Dell'Anno I is an employee of Fondazione ReS

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