

Myotonic Dystrophy, Comorbid Conditions and Healthcare Utilization Based on a 5-Year Comparative Real-World Data Analysis



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Objective

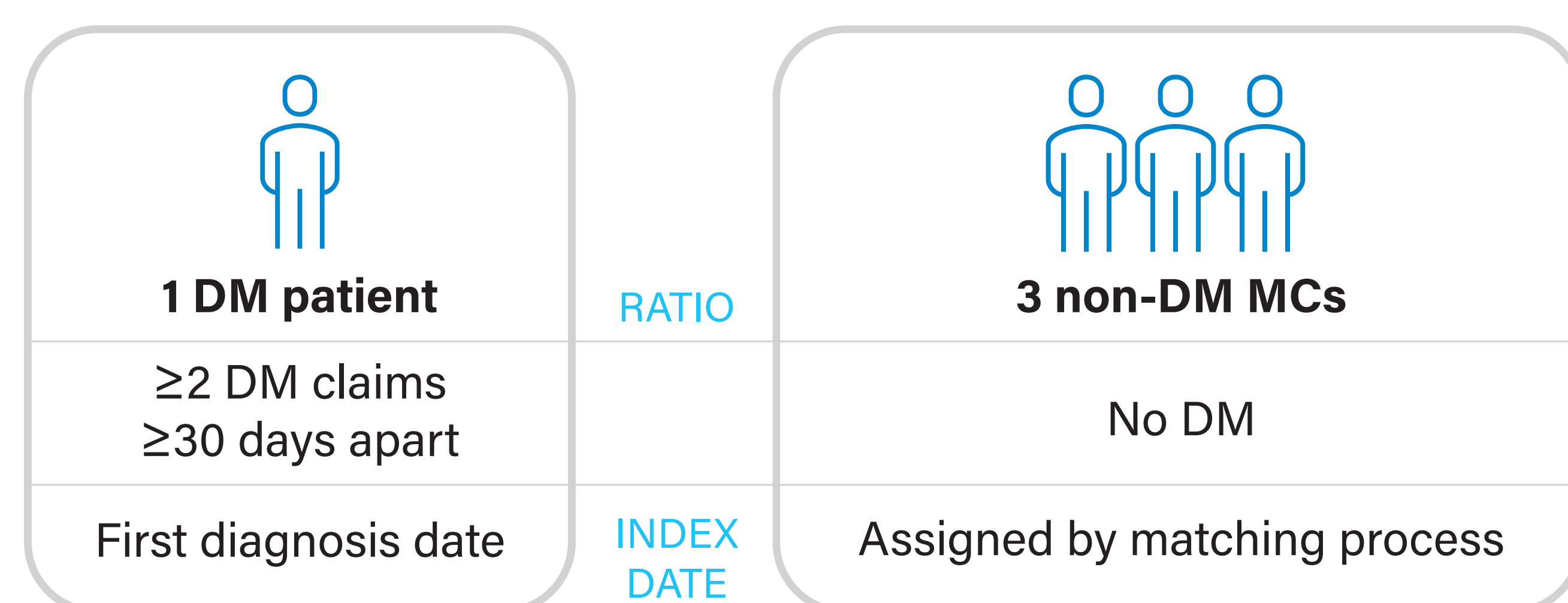
- Describe the management of myotonic dystrophy (DM) patients compared with matched controls (MCs) in the five years post-diagnosis.

Background

- DM types 1 and 2 are rare, dominantly inherited, multisystem diseases that cause progressive muscle weakness and myotonia, along with variable cardiopulmonary, gastrointestinal, and neurological manifestations.¹⁻³
- Long-term data on patients with DM are limited.
- There currently are no approved therapies for DM.³

Design / Methods

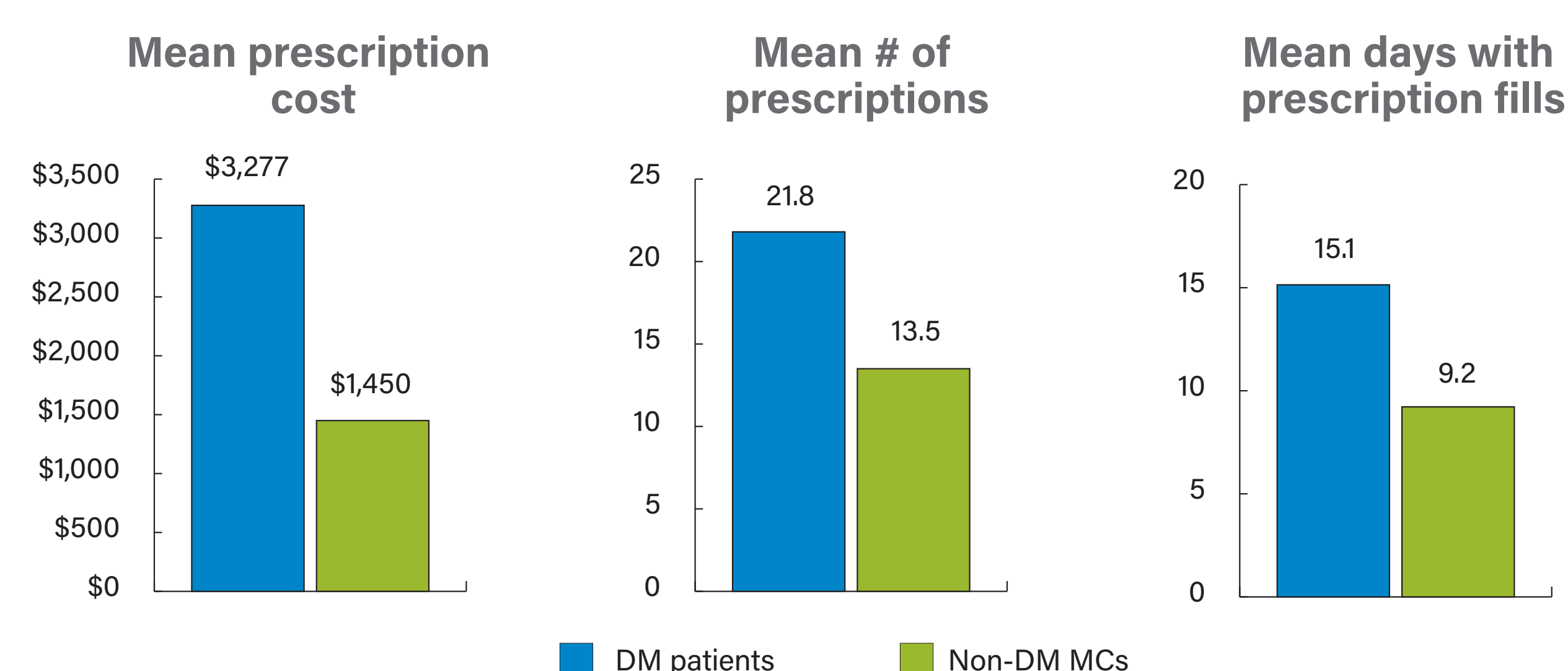
- We used PharMetrics deidentified U.S. claims (Jan 2010—Mar 2021) to retrospectively evaluate care for:



- Cohorts were matched on index month, baseline age, region, gender, plan, and payer types.
- All subjects had five years of data following their index date.
- Costs are the total of member paid plus plan paid. All cost data were adjusted to constant 2020 U.S. dollars.
- Comorbid conditions classified by Agency for Healthcare Research and Quality (AHRQ) specific categories.
- Prescription products classified by Anatomical Therapeutic Classes (ATC). The ATC5 classification data presented on this poster are based on chemical substance.
- Services represent the chargeable activities per visit.
- Data reported are per-member-per-year for cost, number of services and days of service.
- All reported findings are highly significant ($P < 0.0001$).

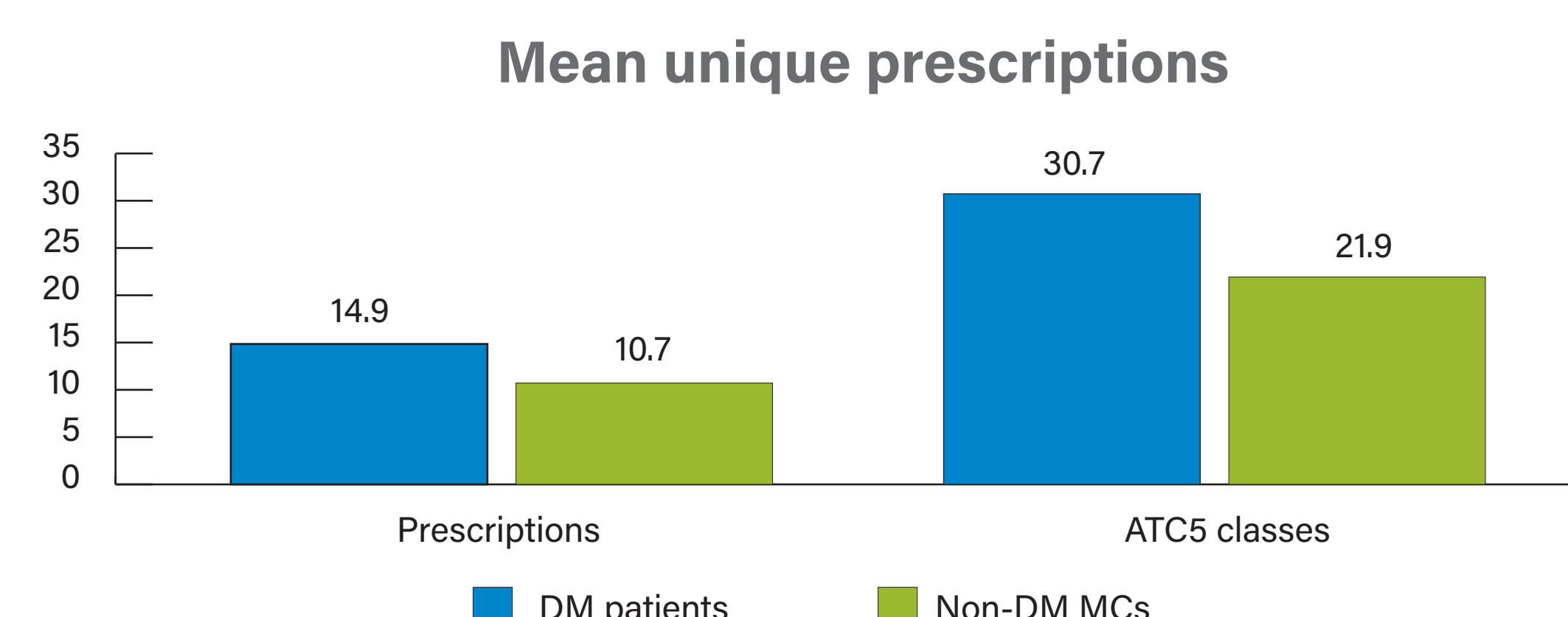
Results

- We identified 892 DM patients and 2,676 MCs. Both cohorts: mean age 41 years [standard deviation 18] and 55% female.
- In the five years following diagnosis, patients with DM had higher utilization of:
 - Healthcare across all locations of care annual mean: costs \$21,728 [\$50,684] vs \$6,221 [\$13,347] for MCs, services 93.4 [118.5] vs 42.6 [52.7], and days of care 35.8 [39.3] vs 16.8 [18.9].
 - Prescriptions:

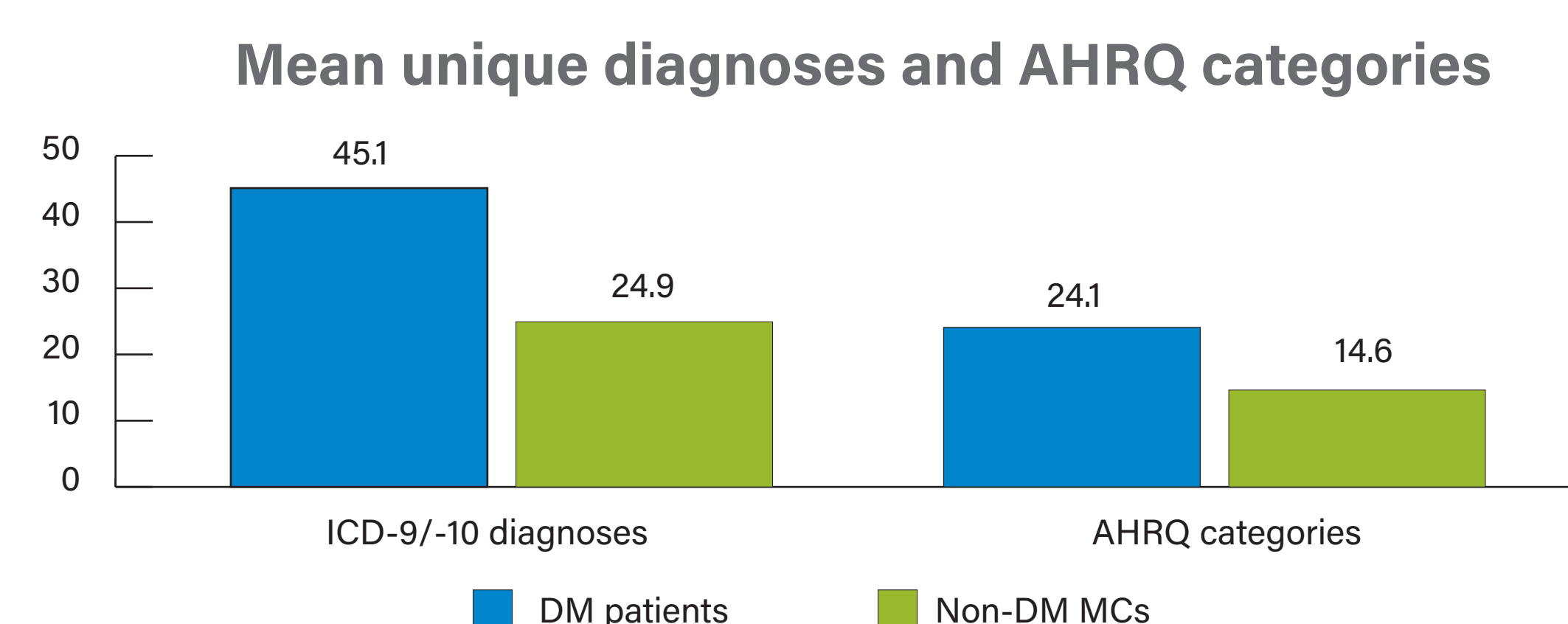


Results (continued)

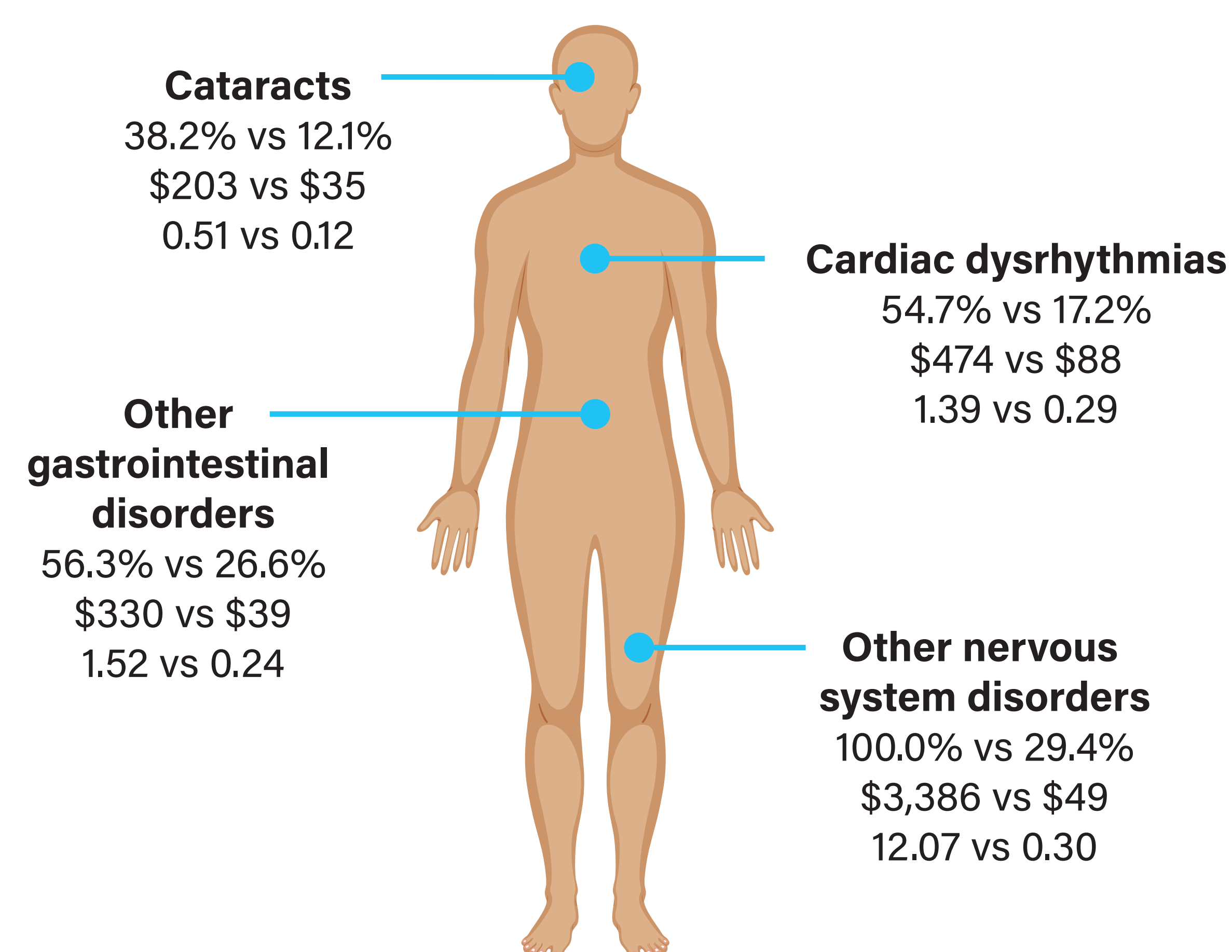
- Compared with controls, persons with DM used more prescriptions from more classes:



- Compared with controls, persons with DM had more comorbid conditions based on both International Classification of Diseases, ninth/tenth revisions (ICD-9/-10) claims and AHRQ categories:



- DM patients' per-member-per-year comorbid conditions were higher in prevalence ($>20\%$), costs ($>\$62$) and services (>0.2), including the following (DM vs. MCs):



Conclusions

- Healthcare utilization was significantly higher in DM patients five years post-diagnosis versus controls.
- Utilization likely reflects multi-specialty care in managing DM.
- The data reflect the multi-system disease burden and financial consequences on DM patients and their families and provide insight into management that may reduce morbidity and mortality.
- Since there are no approved therapies for DM, the increased use likely reflects the manifestations of its management.

References

- Udd B and Krahe R. *Lancet Neurol.* 2012;11(10):891–905.
- Gourdon G and Meola G. *Front Cell Neurosci.* 2017;11:101.
- LoRusso S, et al. *Neurotherapeutics.* 2018;15(4):872–84.

