



Polygenic risk scores for complex diseases

Evangelos Evangelou^{1,2}

¹ Department of Hygiene and Epidemiology, University of Ioannina Medical School, Ioannina, Greece

² BRI, FORTH

*email; vangelis@uoi.gr

ABSTRACT

With the advent of genome-wide association studies (GWAS) hundreds of variants have been discovered for complex diseases providing insights into their genetic architecture [1]. Polygenic risk scores (PRS) provide an estimate of an individual's genetic liability to a disease according to the distribution of the genetic effects based on GWAS data. While there is still much more work to realize the potential for PRS in precision medicine, PRS have the potential to impact future research of complex diseases and healthcare in a variety of ways from stratifying populations to early intervention and preventive medicine [2].

REFERENCES

[1] Evangelou E, et al. 2018. *Nat Genet*, **50**:1412-1425, [2] Elliott J, et al. 2020. *JAMA*, **18**:636-645