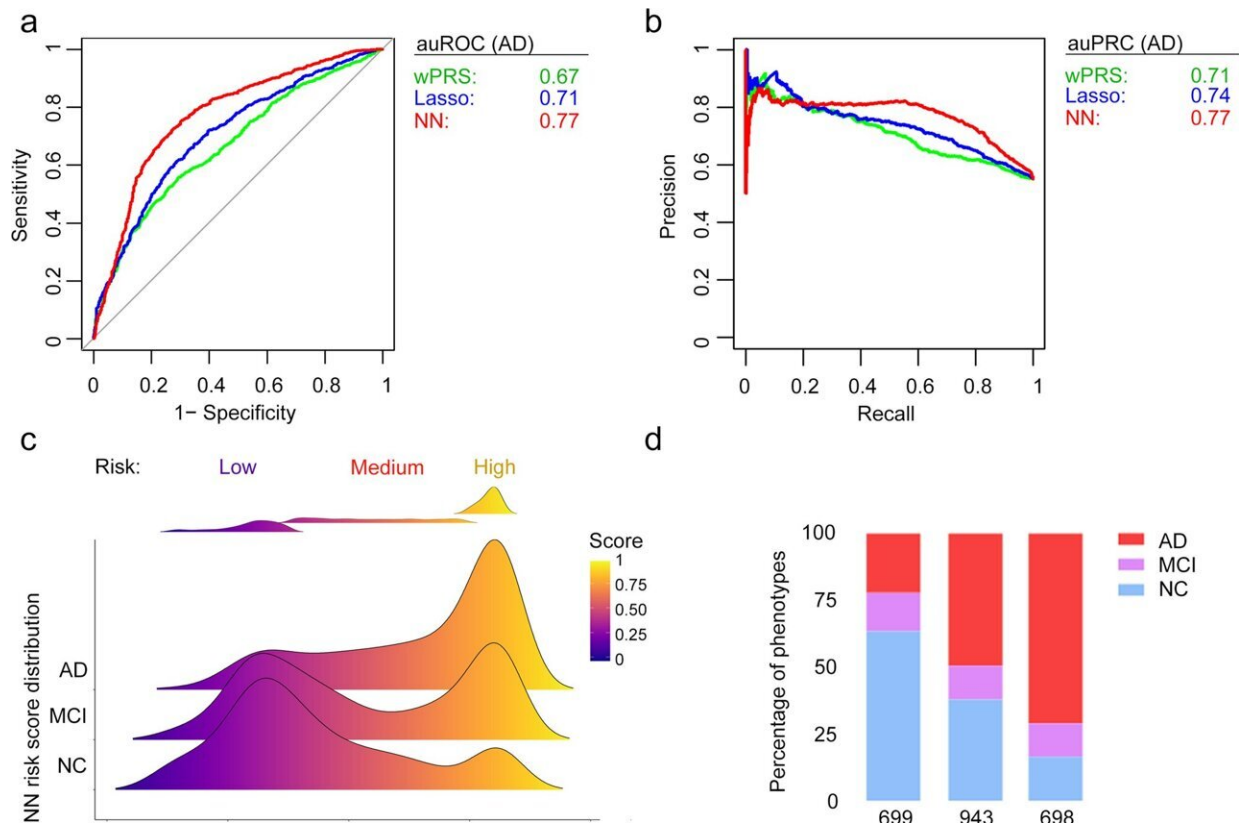


Researchers apply artificial intelligence for early risk forecasting of Alzheimer's disease

June 7 2023



Polygenic risk analysis for Alzheimer's disease in the Chinese population. a ROC and b PR curves of the polygenic score classification of patients with AD in Chinese WGS cohort 1. c Distribution of polygenic risk scores derived from the NN model for each phenotype group. The definitions of the low-, medium-, and high-risk groups are shown in the upper panel. d Percentages of each phenotype group in the low-, medium-, and high-risk groups. e-h Associations between polygenic risk score and MMSE score in e all participants, f non-AD participants (i.e., NCs plus patients with MCI), g APOE-ε3 homozygous carriers, and h

APOE-ε4 carriers. Data are presented as box-and-whisker plots. Boxes indicate the 25th to 75th percentiles, and whiskers indicate the 10th and 90th percentiles. The numbers of individuals in the corresponding group are shown at the bottom of each plot. Robust linear regression model: ***p

Citation: Researchers apply artificial intelligence for early risk forecasting of Alzheimer's disease (2023, June 7) retrieved 25 April 2024 from <https://medicalxpress.com/news/2023-06-artificial-intelligence-early-alzheimer-disease.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.