a. Receiever Operating Characteristic curves **b.** Precision Recall curves Low-risk (M/F) No-dyspnea (M/F) **PPV:** 0.71 Female COPD/Heart Disease Male COPD/Heart Disease Male 0.8 0.6 0.30 **Female** sensitivity sens. PPV: 0.52 sensitivity: 0.6 0.6 PPV: 0.45 0.4**AUC** sensitivity: 0.55 sens. 0.42 84.23% sensitivity at 99% spec.: 0.42 85.3% 0.2 84.83% 0.2 86.57% 88.7% 88.3% 0.2 0.6 0.8 0.40 0.5 sensitivity 1-specificity d. Lower bound on mean survival time C. Feature importances for broad categories Respiratory lower bound on mean survival [week] 250 **Dyspnea & Respiratory Abnormalities** 200 IPF High-risk s **ZCoR-IPF Male** Lipoid Metabolism Disorders **ZCoR-IPF** Female q. CONSORT 150 Coronary Atherosclerosis (prelim. study) 103 weeks (baseline F) Ophthalmological 100 Central nervous system 94 weeks (baseline M) 30,829,871 80 85 90 95 Cardiovascular patients 48+ specificity Injuries **Psychiatric e.** AUC trade-off for earlier screening 18,302,575 Musculoskeletal excluded Male Neoplasms 0.88 insuff. Female history Digestive AUC 0.86 **Disorders of Soft Tissues** 0.84 Chronic Ischemic 2,059,559 sampled **Esophagus Disorders** 200 Metabolic Time to diagnosis [week] Hypertensive f. Risk vs age (4 yrs to diagnosis) Peripheral nervous system 26,804 positive 908,396 control Hypertensive i. positive cohort ii. control cohort male **Allergies** log raw risk -2prob. density **Chest Pain Blood Examination Abnormal Findings** -4Male Immune **Female** -626,603 positive All Infections 1,097,216 control $\cdot 10^{-3}$ 80 50 60 70 50 80 female age at screening [year] importance