A Empirical Distribution of Demographics B Disparities in Demographic Distributions NKI24 UWM IPCAS8 SWU1 NYU1 Utah1 IPCAS4 **IBATRT** MRN1 IPCAS5 UPSM1 **XHCUMS** NYU2 SWU3 BMB₁ IPCAS8 SWU₂ SWU1 IPCAS4 IACAS1 IPCAS5 **JHNU XHCUMS** SWU3 IPCAS1 HNU1 IACAS1 **JHNU** IPCAS2 IPCAS1 **IPCAS3** HNU₁ IPCAS2 BNU3 IPCAS3 BNU₁ BNU3 BNU₁ BNU₂ BNU2 **IPCAS7 IPCAS7** SWU4 SWU4 SWU4IPCAS7BNU2BNU3BNU3IPCAS3IPCAS2HNU1IPCAS1SWU2SWU2SWU2SWU1IPCAS4SWU1IPCAS5IPCAS5IPCAS8BMB1NYU2UPSM1IBATRTUtah1-Europe BMB1 Dataset NKI24 Sex Overlap UWM North America NYU1 No Overlap 0.00 Female Utah1 Male **IBATRT** Moderate Overlap 0.50 MRN1 UPSM1 Perfect Overlap 1.00 NYU2

C Demographic Balancing Procedure

Age

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