Supplementary Table 3. Sensitivity analyses: AUC under different scenarios or adaptations in practice

Scenarios	For undiagnosed DM		For undiagnosed CKD	
	USA-DM score in NHANES	K-DM score in KNHANES	USA-CKD score in NHANES	K-CKD score in KNHANES
Weighted analyses[a]	0.751	0.766	0.891	0.912
Unweighted analyses	0.754	0.766	0.893	0.912
Self-report only, no lab/exam[b]	0.753	0.762	0.888	0.897
Age, yr-old				
≥30	0.709	0.739	0.869	0.901
≥45	0.659	0.704	0.820	0.867
19–39	0.818[c]	0.898[c]	0.912[c]	0.596[d]
40–59	0.719	0.745	0.760	0.858
≥60	0.634[d]	0.643[d]	0.729[d]	0.790
Sex				
Female	0.774	0.800	0.898	0.916[c]
Male	0.731	0.732	0.888	0.907
Race/Ethnicity				
White	0.755	NA	0.878	NA
Black	0.762	NA	0.895	NA
Hispanic	0.779	NA	0.880	NA
Asian BMI cutpoints for Asians[e]	0.755	0.765[f]	NA	NA
Potentially modifiable predictors only (i.e., excluding age, sex, family history)	0.706	0.735	0.776	0.839
Glucose only for diabetes definition	0.746	0.755	NA	NA
Fasting glucose only for diabetes definition among fasters	0.755	0.757	NA	NA
HbA1c only for diabetes definition	0.765	0.780	NA	NA
MDRD, instead of CKD-EPI	NA	NA	0.875	0.901
Korean CKD-EPI	NA	NA	NA	0.907
Exclude persons with eGFR <15[g]	NA	NA	0.893	0.912
Exclude persons with eGFR <30[g]	NA	NA	0.892	0.909
Remove "Women" (with 1 point) in CKD scores	NA	NA	0.892	0.911

AUC, area under the receiver operating characteristic (ROC) curve; DM, diabetes mellitus; CKD, chronic kidney disease; NHANES, National Health and Nutrition Examination Survey; KNHANES, Korea National Health and Nutrition Examination Survey; NA, not applicable; BMI, body mass index; HbA1c, glycosylated hemoglobin; MDRD, Modification of Diet in Renal Disease study equation; CKD-EPI, Chronic Kidney Disease Epidemiology Collaboration; eGFR, estimated glomerular filtration rate.

[a]Following NHANES and KNHANES analyses guidelines, including appropriate weight variables, [b]Assuming when we do not have any laboratory or examination data except for BMI. We did not use self-assessment of obesity status or self-reported weight and height available in NHANES, [c]Largest AUC value, [d]Lowest value, [e]Guided by World Health Organization expert consultation (2004)—using 23, 27.5, and 35 cutpoints, [f]Using Asian BMI cutpoints in place of waist, [g]To exclude cases with possible diagnosed CKD but not asked in surveys.