

SUPPLEMENTARY TABLE S6. SENSITIVITY AND SPECIFICITY, AND RECLASSIFICATION ACCORDING TO DIFFERENT HbA1c CUTOFFS FOR PREDIABETES (IFG)

	HbA1c	Test characteristics					Reclassified (%)	
		Sensitivity	Specificity	J value	PPV	NPV	IFG*	No IFG†
All	5.4	0.694	0.543	0.238	0.560	0.680	13.2	23.5
	5.5	0.597	0.643	0.240	0.583	0.656	17.4	18.4
	5.6	0.486	0.744	0.231	0.614	0.634	22.1	13.2
	5.7	0.383	0.834	0.217	0.659	0.618	26.6	8.5
	5.8	0.278	0.891	0.169	0.680	0.596	31.1	5.6
Male	5.4	0.663	0.535	0.198	0.635	0.566	8.6	9.7
	5.5	0.567	0.632	0.199	0.652	0.545	11.0	7.7
	5.6	0.455	0.743	0.198	0.683	0.528	13.9	5.4
	5.7	0.350	0.837	0.186	0.723	0.514	16.6	3.4
	5.8	0.243	0.891	0.133	0.730	0.491	19.3	2.3
Female	5.4	0.740	0.548	0.289	0.486	0.786	4.6	13.8
	5.5	0.640	0.650	0.291	0.513	0.758	6.3	10.7
	5.6	0.531	0.745	0.276	0.546	0.734	8.3	7.8
	5.7	0.432	0.832	0.264	0.597	0.718	10.0	5.1
	5.8	0.329	0.890	0.219	0.634	0.697	11.8	3.4
NHW	5.4	0.658	0.587	0.246	0.589	0.657	7.7	10.4
	5.5	0.559	0.696	0.254	0.622	0.637	10.0	7.7
	5.6	0.449	0.791	0.239	0.658	0.615	12.5	5.3
	5.7	0.343	0.868	0.212	0.701	0.596	14.9	3.3
	5.8	0.238	0.916	0.154	0.717	0.573	17.2	2.1
NHB	5.4	0.791	0.423	0.214	0.462	0.763	1.3	5.8
	5.5	0.718	0.500	0.218	0.474	0.738	1.8	5.0
	5.6	0.638	0.605	0.243	0.503	0.727	2.3	4.0
	5.7	0.541	0.718	0.259	0.546	0.714	2.9	2.8
	5.8	0.424	0.801	0.224	0.571	0.689	3.6	2.0
MEX	5.4	0.689	0.554	0.243	0.589	0.658	2.6	4.0
	5.5	0.578	0.669	0.247	0.618	0.631	3.5	3.0
	5.6	0.455	0.771	0.226	0.648	0.604	4.6	2.1
	5.7	0.366	0.855	0.221	0.700	0.593	5.3	1.3
	5.8	0.256	0.900	0.156	0.703	0.566	6.2	0.9
20–39 years	5.4	0.504	0.701	0.206	0.432	0.759	5.3	7.0
	5.5	0.414	0.790	0.204	0.470	0.749	6.2	4.9
	5.6	0.309	0.867	0.176	0.512	0.736	7.3	3.1
	5.7	0.208	0.921	0.128	0.541	0.721	8.4	1.9
	5.8	0.141	0.958	0.099	0.600	0.712	9.1	1.0
40–59 years	5.4	0.706	0.491	0.198	0.570	0.636	4.8	8.6
	5.5	0.602	0.599	0.202	0.589	0.612	6.5	6.8
	5.6	0.477	0.719	0.196	0.619	0.590	8.5	4.8
	5.7	0.367	0.824	0.191	0.666	0.577	10.3	3.0
	5.8	0.249	0.882	0.131	0.669	0.552	12.2	2.0
60–79 years	5.4	0.807	0.283	0.090	0.626	0.497	3.1	7.8
	5.5	0.711	0.393	0.104	0.635	0.478	4.7	6.6
	5.6	0.612	0.519	0.131	0.654	0.474	6.3	5.3
	5.7	0.515	0.663	0.178	0.694	0.479	7.9	3.7
	5.8	0.396	0.759	0.155	0.710	0.459	9.8	2.6

\*False negative, people with prediabetes reclassified as not having prediabetes based on HbA1c cutoff.

†False positive, people not with prediabetes reclassified as having prediabetes based on HbA1c cutoff.

HbA1c, glycated hemoglobin; FPG, fasting plasma glucose; PPV, positive predict value; NPV, negative predict value; IFG, impaired fasting glucose,  $100 \leq$  fasting plasma glucose  $< 126$  mg/dL, and HbA1c  $< 6.5\%$ ; J value = Sensitivity + Specificity – 1; NHW, non-Hispanic white; NHB, non-Hispanic black; MEX, Mexican American.

SUPPLEMENTARY TABLE S7. SENSITIVITY AND SPECIFICITY, AND RECLASSIFICATION ACCORDING TO DIFFERENT HbA1c CUTOFFS FOR PREDIABETES (IGT)

	<i>HbA1c</i>	<i>Test characteristics</i>					<i>Reclassified (%)</i>	
		<i>Sensitivity</i>	<i>Specificity</i>	<i>J value</i>	<i>PPV</i>	<i>NPV</i>	<i>IGT*</i>	<i>No IGT†</i>
All	5.4	0.653	0.571	0.224	0.154	0.932	1.9	19.5
	5.5	0.544	0.669	0.213	0.164	0.925	2.5	15.1
	5.6	0.449	0.770	0.219	0.190	0.921	3.0	10.5
	5.7	0.316	0.855	0.171	0.207	0.913	3.7	6.6
	5.8	0.214	0.904	0.119	0.211	0.906	4.3	4.4
Male	5.4	0.683	0.559	0.242	0.133	0.947	0.6	8.3
	5.5	0.554	0.650	0.204	0.136	0.936	0.8	6.6
	5.6	0.455	0.761	0.217	0.159	0.934	1.0	4.5
	5.7	0.327	0.853	0.179	0.180	0.927	1.3	2.8
	5.8	0.228	0.903	0.130	0.189	0.922	1.4	1.8
Female	5.4	0.637	0.579	0.216	0.169	0.922	1.3	11.2
	5.5	0.539	0.682	0.221	0.185	0.917	1.6	8.5
	5.6	0.446	0.777	0.222	0.211	0.913	2.0	6.0
	5.7	0.311	0.857	0.168	0.226	0.902	2.5	3.8
	5.8	0.207	0.905	0.113	0.227	0.895	2.8	2.5
NHW	5.4	0.634	0.619	0.253	0.165	0.935	1.0	8.5
	5.5	0.493	0.725	0.218	0.175	0.924	1.3	6.1
	5.6	0.415	0.822	0.237	0.216	0.922	1.5	4.0
	5.7	0.282	0.893	0.174	0.237	0.913	1.9	2.4
	5.8	0.211	0.933	0.144	0.270	0.909	2.1	1.5
NHB	5.4	0.771	0.442	0.213	0.119	0.952	0.2	5.1
	5.5	0.667	0.517	0.184	0.119	0.941	0.3	4.4
	5.6	0.521	0.619	0.139	0.117	0.930	0.4	3.5
	5.7	0.438	0.734	0.172	0.138	0.931	0.5	2.4
	5.8	0.292	0.811	0.103	0.131	0.922	0.6	1.7
MEX	5.4	0.629	0.586	0.215	0.183	0.915	0.4	3.2
	5.5	0.548	0.700	0.248	0.213	0.913	0.5	2.3
	5.6	0.452	0.802	0.254	0.252	0.908	0.6	1.5
	5.7	0.290	0.876	0.167	0.257	0.893	0.8	1.0
	5.8	0.194	0.914	0.108	0.250	0.885	0.9	0.7
20–39 years	5.4	0.408	0.709	0.117	0.077	0.953	0.8	6.5
	5.5	0.352	0.799	0.151	0.094	0.954	0.9	4.5
	5.6	0.254	0.875	0.128	0.107	0.952	1.0	2.8
	5.7	0.183	0.927	0.110	0.130	0.950	1.1	1.6
	5.8	0.099	0.961	0.059	0.130	0.947	1.2	0.9
40–59 years	5.4	0.621	0.507	0.128	0.129	0.919	0.7	7.4
	5.5	0.537	0.618	0.155	0.141	0.919	0.8	5.7
	5.6	0.442	0.739	0.181	0.165	0.919	1.0	3.9
	5.7	0.305	0.840	0.145	0.182	0.912	1.2	2.4
	5.8	0.232	0.894	0.126	0.204	0.909	1.4	1.6
60–79 years	5.4	0.813	0.315	0.127	0.254	0.854	0.4	5.7
	5.5	0.656	0.411	0.067	0.243	0.806	0.8	4.9
	5.6	0.563	0.546	0.109	0.263	0.813	1.0	3.7
	5.7	0.398	0.688	0.086	0.268	0.799	1.4	2.6
	5.8	0.266	0.771	0.036	0.250	0.785	1.7	1.9

\*False negative, people with prediabetes reclassified as not having prediabetes based on HbA1c cutoff.

†False positive, people not with prediabetes reclassified as having prediabetes based on HbA1c cutoff.

HbA1c, glycated hemoglobin; FPG, fasting plasma glucose; PPV, positive predict value; NPV, negative predict value; IGT, impaired glucose tolerance, 140 ≤ 2-hr glucose < 200 mg/day, fasting plasma glucose < 100 mg/dL, and HbA1c < 6.5%; J value = Sensitivity + Specificity - 1; NHW, non-Hispanic white; NHB, non-Hispanic black; MEX, Mexican American.

SUPPLEMENTARY TABLE S8. SENSITIVITY AND SPECIFICITY, AND RECLASSIFICATION ACCORDING TO DIFFERENT HbA1c CUTOFFS FOR PREDIABETES (IFG AND/OR IGT)

	HbA1c	Test characteristics					Reclassified (%)	
		Sensitivity	Specificity	J value	PPV	NPV	IFG/IGT*	No IFG/IGT†
All	5.4	0.677	0.571	0.248	0.609	0.642	14.5	19.5
	5.5	0.576	0.669	0.245	0.632	0.615	19.0	15.1
	5.6	0.465	0.770	0.235	0.666	0.593	24.1	10.5
	5.7	0.354	0.855	0.209	0.707	0.573	29.0	6.6
	5.8	0.248	0.904	0.153	0.719	0.549	33.8	4.4
Male	5.4	0.655	0.559	0.214	0.669	0.544	8.8	8.3
	5.5	0.554	0.650	0.204	0.683	0.517	11.4	6.6
	5.6	0.441	0.761	0.203	0.715	0.500	14.3	4.5
	5.7	0.331	0.853	0.183	0.753	0.484	17.2	2.8
	5.8	0.224	0.903	0.127	0.758	0.461	19.9	1.8
Female	5.4	0.707	0.579	0.286	0.549	0.732	5.7	11.2
	5.5	0.606	0.682	0.288	0.580	0.705	7.6	8.5
	5.6	0.495	0.777	0.272	0.616	0.680	9.7	6.0
	5.7	0.386	0.857	0.242	0.661	0.658	11.8	3.8
	5.8	0.281	0.905	0.186	0.682	0.635	13.9	2.5
NHW	5.4	0.642	0.619	0.261	0.637	0.624	8.3	8.5
	5.5	0.534	0.725	0.259	0.669	0.600	10.8	6.1
	5.6	0.424	0.822	0.246	0.712	0.578	13.3	4.0
	5.7	0.312	0.893	0.204	0.751	0.555	15.9	2.4
	5.8	0.212	0.933	0.144	0.765	0.532	18.2	1.5
NHB	5.4	0.783	0.442	0.226	0.516	0.729	1.5	5.1
	5.5	0.703	0.517	0.220	0.525	0.697	2.1	4.4
	5.6	0.612	0.619	0.231	0.549	0.678	2.7	3.5
	5.7	0.513	0.734	0.248	0.594	0.665	3.4	2.4
	5.8	0.388	0.811	0.199	0.609	0.636	4.2	1.7
MEX	5.4	0.665	0.586	0.250	0.646	0.606	3.0	3.2
	5.5	0.558	0.700	0.258	0.679	0.582	3.9	2.3
	5.6	0.438	0.802	0.241	0.716	0.557	5.0	1.5
	5.7	0.338	0.876	0.214	0.756	0.538	5.9	1.0
	5.8	0.226	0.914	0.141	0.750	0.510	6.8	0.7
20–39 years	5.4	0.486	0.709	0.194	0.467	0.724	6.0	6.5
	5.5	0.397	0.799	0.196	0.509	0.716	7.0	4.5
	5.6	0.294	0.875	0.168	0.552	0.702	8.2	2.8
	5.7	0.197	0.927	0.124	0.588	0.687	9.4	1.6
	5.8	0.127	0.961	0.088	0.630	0.677	10.2	0.9
40–59 years	5.4	0.687	0.507	0.194	0.614	0.586	5.4	7.4
	5.5	0.585	0.618	0.203	0.636	0.566	7.1	5.7
	5.6	0.463	0.739	0.202	0.669	0.547	9.2	3.9
	5.7	0.348	0.840	0.187	0.712	0.530	11.2	2.4
	5.8	0.238	0.894	0.132	0.719	0.507	13.1	1.6
60–79 years	5.4	0.806	0.315	0.121	0.697	0.455	3.1	5.7
	5.5	0.697	0.411	0.108	0.698	0.410	4.9	4.9
	5.6	0.590	0.546	0.136	0.717	0.406	6.6	3.7
	5.7	0.476	0.688	0.163	0.748	0.402	8.4	2.6
	5.8	0.348	0.771	0.119	0.748	0.377	10.5	1.9

\*False negative, people with prediabetes reclassified as not having prediabetes based on HbA1c cutoff.

†False positive, people not with prediabetes reclassified as having prediabetes based on HbA1c cutoff.

HbA1c, glycated hemoglobin; FPG, fasting plasma glucose; PPV, positive predict value; NPV, negative predict value; IFG, impaired fasting glucose,  $100 \leq$  fasting plasma glucose  $< 126$  mg/dL, and HbA1c  $< 6.5\%$ ; IGT, impaired glucose tolerance,  $140 \leq 2$ -hr glucose  $< 200$  mg/dL, and HbA1c  $< 6.5\%$ ; J value = Sensitivity + Specificity - 1; NHW, non-Hispanic white; NHB, non-Hispanic black; MEX, Mexican American.