

**S3 Table. Sensitivity analyses adjusting for baseline measures of systolic blood pressure (SBP) and A1c for difference-in-difference regression results, by HealthRise site, for hypertension (A) and diabetes (B) patients.** Patient samples included in this analysis are those who met all inclusion criteria, remained enrolled throughout the program (for HealthRise patients), and had at least two biometric readings to reflect potential changes between baseline and endline. Bolded values reflect statistically significant estimates at  $p < 0.05$ .

**A) Hypertension**

	<b>Hennepin County</b>		<b>Ramsey County</b>		<b>Rice County</b>	
	Coefficient (95% CI)	<i>p</i> -value	Coefficient (95% CI)	<i>p</i> -value	Coefficient (95% CI)	<i>p</i> -value
<b>Change in systolic blood pressure (SBP, mmHg)</b>						
<b>Unadjusted model (original)</b>						
HealthRise-endline interaction	-5.6 (-11.7 to 0.4)	0.068	-10.7 (-21.7 to 0.2)	0.054	<b>-6.9 (-12.9 to -0.9)</b>	<b>0.024</b>
<b>Unadjusted model + adjusting for baseline SBP (mmHg)</b>						
HealthRise-endline interaction	-5.6 (-11.7 to 0.4)	0.068	-10.7 (-21.7 to 0.2)	0.055	<b>-6.9 (-12.9 to -0.9)</b>	<b>0.024</b>
Baseline SBP (mmHg)	<b>0.6 (0.6 to 0.7)</b>	<b>&lt; 0.001</b>	<b>0.7 (0.6 to 0.8)</b>	<b>&lt; 0.001</b>	<b>0.7 (0.6 to 0.8)</b>	<b>&lt; 0.001</b>
<b>Unadjusted model + adjusting for baseline SBP target</b>						
HealthRise-endline interaction	-5.6 (-11.7 to 0.4)	0.068	-10.7 (-21.7 to 0.2)	0.055	<b>-6.9 (-12.9 to -0.9)</b>	<b>0.024</b>
Baseline SBP meets clinical target						
Yes (< 140 mmHg)	-	-	-	-	-	-
No (≥ 140 mmHg)	<b>15.8 (12.2 to 19.4)</b>	<b>&lt; 0.001</b>	<b>24.3 (18.2 to 30.3)</b>	<b>&lt; 0.001</b>	<b>20.8 (16.8 to 24.8)</b>	<b>&lt; 0.001</b>
<b>Adjusted model (original)</b>						
HealthRise-endline interaction	-5.6 (-11.7 to 0.5)	0.070	-10.7 (-21.8 to 0.3)	0.057	<b>-6.9 (-13.0 to -0.9)</b>	<b>0.025</b>
Age						
< 50 years	-	-	-	-	-	-
≥ 50 years	1.1 (-4.2 to 6.4)	0.677	3.6 (-2.8 to 10.1)	0.266	1.4 (-2.9 to 5.7)	0.531
Sex						
Male	-	-	-	-	-	-
Female	-0.3 (-4.6 to 4.1)	0.909	2.6 (-4.3 to 9.6)	0.455	0.5 (-3.2 to 4.2)	0.780
Duration from baseline to endline						
< 12 months	-	-	-	-	-	-
≥ 12 months	-0.8 (-8.0 to 6.4)	0.829	-2.0 (-11.3 to 7.2)	0.663	<b>-9.1 (-14.1 to -4.2)</b>	<b>&lt; 0.001</b>
Comorbid						
No (hypertension only)	-	-	-	-	-	-
Yes (hypertension and diabetes)	-5.6 (-11.7 to 0.5)	0.266	-7.4 (-15.1 to 0.3)	0.061	<b>8.5 (2.5 to 14.5)</b>	<b>0.006</b>
<b>Adjusted model (+ adjusting for baseline SBP [mmHg])</b>						
HealthRise-endline interaction	-5.6 (-11.7 to 0.5)	0.070	-10.7 (-21.8 to 0.3)	0.058	<b>-6.9 (-13.0 to -0.9)</b>	<b>0.025</b>
Baseline SBP (mmHg)	<b>0.6 (0.6 to 0.7)</b>	<b>&lt; 0.001</b>	<b>0.7 (0.6 to 0.8)</b>	<b>&lt; 0.001</b>	<b>0.7 (0.6 to 0.8)</b>	<b>&lt; 0.001</b>
Age						
< 50 years	-	-	-	-	-	-
≥ 50 years	-2.1 (-4.8 to 0.5)	0.113	<b>5.5 (0.8 to 10.2)</b>	<b>0.022</b>	-0.8 (-3.7 to 2.0)	0.559
Sex						
Male	-	-	-	-	-	-
Female	0.7 (-1.6 to 3.1)	0.551	-0.7 (-5.5 to 4.1)	0.771	0.4 (-1.7 to 2.5)	0.707
Duration from baseline to endline						
< 12 months	-	-	-	-	-	-
≥ 12 months	1.1 (-2.2 to 4.4)	0.515	-1.2 (-7.3 to 4.9)	0.695	-1.2 (-3.5 to 1.1)	0.313
Comorbid						
No (hypertension only)	-	-	-	-	-	-
Yes (hypertension and diabetes)	-0.07 (-2.6 to 2.4)	0.957	-2.3 (-7.9 to 3.3)	0.413	<b>5.5 (1.1 to 9.9)</b>	<b>0.014</b>
<b>Adjusted model (+ adjusting for baseline SBP target)</b>						
HealthRise-endline interaction	-5.6 (-11.7 to 0.5)	0.070	-10.7 (-21.8 to 0.3)	0.058	<b>-6.9 (-12.9 to -0.9)</b>	<b>0.024</b>
Baseline SBP meets clinical target						
Yes (< 140 mmHg)	-	-	-	-	-	-
No (≥ 140 mmHg)	<b>15.8 (12.2 to 19.3)</b>	<b>&lt; 0.001</b>	<b>24.3 (18.2 to 30.3)</b>	<b>&lt; 0.001</b>	<b>20.1 (16.4 to 23.8)</b>	<b>&lt; 0.001</b>
Age						
< 50 years	-	-	-	-	-	-
≥ 50 years	0.4 (-3.6 to 4.4)	0.834	<b>5.8 (0.04 to 11.6)</b>	<b>0.048</b>	3.2 (-0.6 to 6.8)	0.096
Sex						
Male	-	-	-	-	-	-
Female	0.5 (-3.2 to 4.2)	0.787	-0.8 (-6.4 to 4.8)	0.773	0.2 (-2.9 to 3.2)	0.918
Duration from baseline to endline						
< 12 months	-	-	-	-	-	-
≥ 12 months	0.2 (-5.1 to 5.5)	0.942	-2.3 (-10.2 to 5.6)	0.567	-3.4 (-7.0 to 0.2)	0.068
Comorbid						
No (hypertension only)	-	-	-	-	-	-
Yes (hypertension and diabetes)	-0.6 (-4.4 to 3.2)	0.760	-3.9 (-11.0 to 3.2)	0.273	<b>7.3 (1.7 to 12.9)</b>	<b>0.011</b>

B) Diabetes

	Hennepin County		Ramsey County		Rice County	
	Coefficient (95% CI)	p-value	Coefficient (95% CI)	p-value	Coefficient (95% CI)	p-value
<b>Change in A1c (%)</b>						
<b>Unadjusted model</b>						
HealthRise-endline interaction	-0.4 (-1.5 to 0.8)	0.551	<b>-1.3 (-2.2 to -0.4)</b>	<b>0.007</b>	-0.03 (-0.5 to 0.4)	0.904
<b>Unadjusted model + adjusting for baseline A1c (%)</b>						
HealthRise-endline interaction	-0.3 (-1.5 to 0.8)	0.552	<b>-1.3 (-2.3 to -0.4)</b>	<b>0.007</b>	-0.03 (-0.5 to 0.4)	0.904
Baseline A1c (%)	<b>0.7 (0.5 to 0.9)</b>	<b>&lt; 0.001</b>	<b>0.7 (0.6 to 0.8)</b>	<b>&lt; 0.001</b>	<b>0.8 (0.7 to 0.8)</b>	<b>&lt; 0.001</b>
<b>Unadjusted model + adjusting for baseline A1c target</b>						
HealthRise-endline interaction	-0.3 (-1.5 to 0.8)	0.552	<b>-1.3 (-2.3 to -0.4)</b>	<b>0.007</b>	-0.03 (-0.5 to 0.4)	0.904
Baseline A1c meets clinical target						
Yes (< 8.0%)	-	-	-	-	-	-
No (≥ 8.0%)	<b>2.3 (1.4 to 3.2)</b>	<b>&lt; 0.001</b>	<b>3.0 (2.3 to 3.8)</b>	<b>&lt; 0.001</b>	<b>3.0 (2.7 to 3.2)</b>	<b>&lt; 0.001</b>
<b>Adjusted model</b>						
HealthRise-endline interaction	-0.4 (-1.5 to 0.8)	0.556	<b>-1.3 (-2.3 to -0.4)</b>	<b>0.007</b>	-0.03 (-0.5 to 0.4)	0.905
Age						
< 50 years	-	-	-	-	-	-
≥ 50 years	<b>-1.8 (-3.0 to -0.6)</b>	<b>0.006</b>	0.1 (-0.8 to 1.0)	0.828	-0.1 (-0.6 to 0.4)	0.369
Sex						
Male	-	-	-	-	-	-
Female	0.1 (-0.7 to 0.9)	0.833	-0.1 (-0.9 to 0.7)	0.791	-0.1 (-0.5 to 0.3)	0.622
Duration from baseline to endline						
< 12 months	-	-	-	-	-	-
≥ 12 months	<b>-1.5 (-2.8 to -0.1)</b>	<b>0.031</b>	0.2 (-0.8 to 1.1)	0.807	0.2 (-0.2 to -0.6)	0.369
Comorbid						
No (diabetes only)	-	-	-	-	-	-
Yes (hypertension and diabetes)	-0.5 (-1.7 to 0.7)	0.417	-0.5 (-1.3 to 0.4)	0.260	0.1 (-0.3 to -0.6)	0.510
<b>Adjusted model (+ adjusting for baseline A1c [%])</b>						
HealthRise-endline interaction	-0.3 (-1.5 to 0.8)	0.558	<b>-1.3 (-2.3 to -0.4)</b>	<b>0.007</b>	-0.03 (-0.5 to 0.4)	0.905
Baseline A1c (%)	<b>0.7 (0.5 to 0.8)</b>	<b>&lt; 0.001</b>	<b>0.7 (0.6 to 0.8)</b>	<b>&lt; 0.001</b>	<b>0.8 (0.7 to 0.8)</b>	<b>&lt; 0.001</b>
Age						
< 50 years	-	-	-	-	-	-
≥ 50 years	-0.9 (-1.8 to 0.06)	0.067	0.01 (-0.4 to 0.4)	0.972	0.01 (-0.2 to 0.2)	0.955
Sex						
Male	-	-	-	-	-	-
Female	-0.05 (-0.6 to 0.5)	0.852	0.06 (-0.3 to 0.5)	0.749	0.01 (-0.2 to 0.2)	0.912
Duration from baseline to endline						
< 12 months	-	-	-	-	-	-
≥ 12 months	-0.7 (-1.6 to 0.2)	0.122	0.4 (-0.1 to 0.9)	0.098	<b>0.2 (0.02 to 0.4)</b>	<b>0.027</b>
Comorbid						
No (diabetes only)	-	-	-	-	-	-
Yes (hypertension and diabetes)	-0.4 (-1.4 to 0.5)	0.372	0.1 (-0.3 to 0.5)	0.661	0.01 (-0.2 to 0.2)	0.927
<b>Adjusted model (+ adjusting for baseline A1c target)</b>						
HealthRise-endline interaction	-0.3 (-1.5 to 0.8)	0.558	<b>-1.3 (-2.3 to -0.4)</b>	<b>0.007</b>	-0.03 (-0.5 to 0.4)	0.905
Baseline A1c meets clinical target						
Yes (< 8.0%)	-	-	-	-	-	-
No (≥ 8.0%)	<b>2.0 (1.2 to 2.8)</b>	<b>&lt; 0.001</b>	<b>3.1 (2.4 to 3.9)</b>	<b>&lt; 0.001</b>	<b>3.0 (2.7 to 3.2)</b>	<b>&lt; 0.001</b>
Age						
< 50 years	-	-	-	-	-	-
≥ 50 years	<b>-1.5 (-2.7 to -0.3)</b>	<b>0.015</b>	0.3 (-0.5 to 1.1)	0.444	-0.2 (-0.5 to 0.1)	0.274
Sex						
Male	-	-	-	-	-	-
Female	0.04 (-0.7 to 0.7)	0.909	-0.3 (-0.9 to 0.4)	0.436	-0.08 (-0.4 to 0.2)	0.560
Duration from baseline to endline						
< 12 months	-	-	-	-	-	-
≥ 12 months	<b>-1.2 (-2.1 to -0.05)</b>	<b>0.041</b>	0.3 (-0.5 to 1.1)	0.402	<b>0.3 (0.01 to 0.6)</b>	<b>0.039</b>
Comorbid						
No (diabetes only)	-	-	-	-	-	-
Yes (hypertension and diabetes)	-0.3 (-1.4 to 0.8)	0.583	-0.1 (-0.9 to 0.7)	0.786	-0.01 (-0.3 to 0.3)	0.938