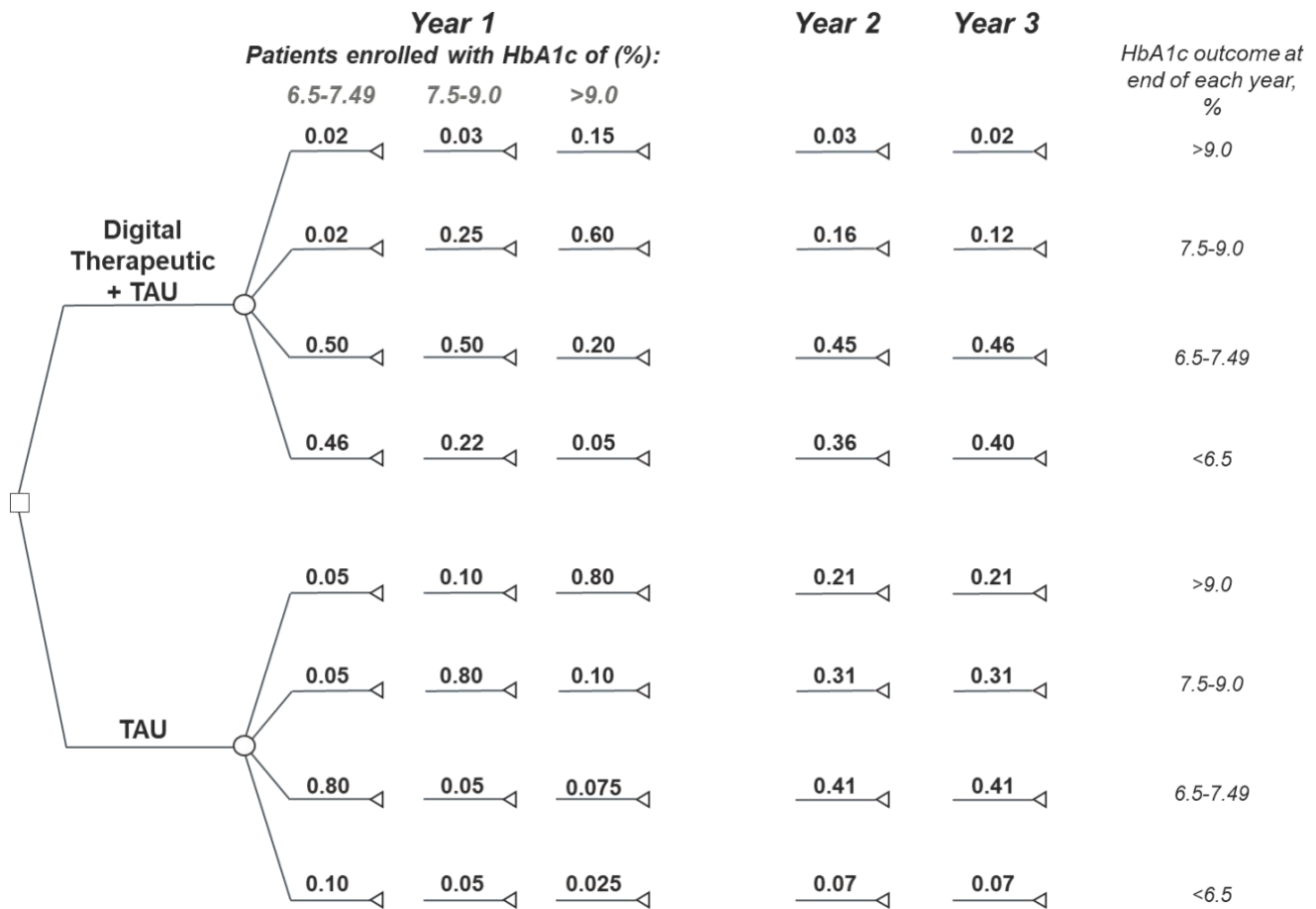**Multimedia Appendix 1. Supplementary figures and tables.**

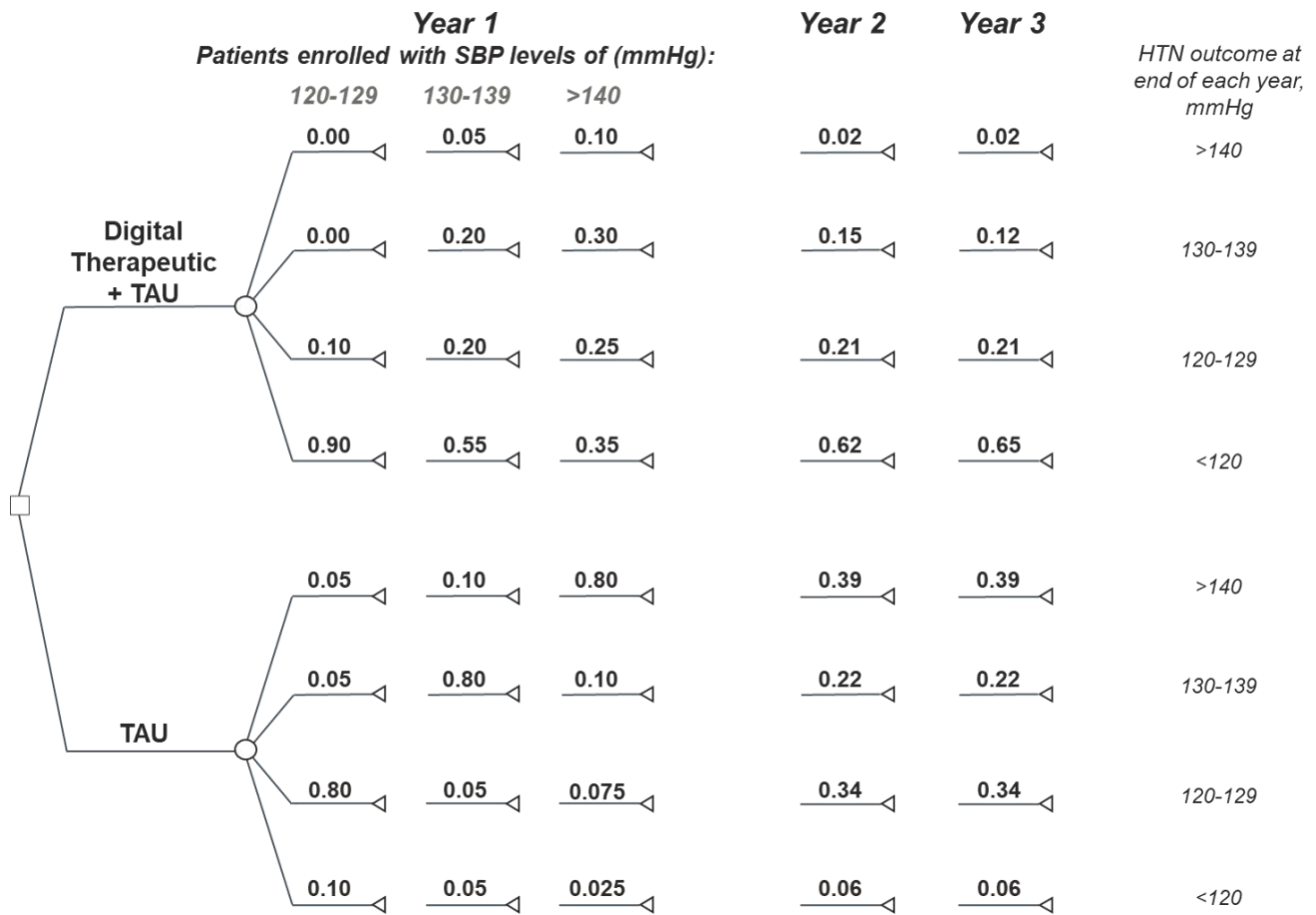**Figure S1. Complete 3-year patient flow diagram for type 2 diabetes mellitus**

Note: DTx+TAU outcomes apply only for those patients who remain in the DTx program, see

discussion on attrition in Methods section

Table S1. Proportion of remaining patients by outcome category and time point, Type 2 diabetes mellitus

HbA1c Level, %	Enrollment	EOY1	EOY2	EOY3
Digital Therapeutic + TAU				
>9	0.19	0.05	0.03	0.02
7.5-9	0.34	0.21	0.16	0.12
6.5-7.5	0.47	0.44	0.45	0.46
<6.5	0	0.30	0.36	0.40
TAU Alone				
>9	0.19	0.21	0.21	0.21
7.5-9	0.34	0.31	0.31	0.31
6.5-7.5	0.47	0.41	0.41	0.41
<6.5	0	0.07	0.07	0.07

Figure S2. Complete 3-year patient flow diagram for hypertension

	Year 1			Year 2	Year 3	HTN outcome at end of each year, mmHg
	Patients enrolled with SBP levels of (mmHg):					
	120-129	130-139	>140			
Digital Therapeutic + TAU	0.00	0.05	0.10	0.02	0.02	>140
	0.00	0.20	0.30	0.15	0.12	130-139
	0.10	0.20	0.25	0.21	0.21	120-129
	0.90	0.55	0.35	0.62	0.65	<120
TAU	0.05	0.10	0.80	0.39	0.39	>140
	0.05	0.80	0.10	0.22	0.22	130-139
	0.80	0.05	0.075	0.34	0.34	120-129
	0.10	0.05	0.025	0.06	0.06	<120

Note: DTx+TAU outcomes apply only for those patients who remain in the DTx program, see discussion on attrition in Methods section

Table S2. Proportion of remaining patients by outcome category and time point, Hypertension

SBP Level, mmHg	Enrollment	EOY1	EOY2	EOY3
Digital Therapeutic + TAU				
≥140	0.44	0.05	0.02	0.02
130-139	0.19	0.17	0.15	0.12
120-129	0.37	0.18	0.21	0.21
<120	0	0.59	0.62	0.65
TAU Alone				
≥140	0.44	0.39	0.39	0.39
130-139	0.19	0.22	0.22	0.22
120-129	0.37	0.34	0.34	0.34
<120	0	0.06	0.06	0.06

Table S3. Clinical parameters used in Framingham equations for CVD risk[a]

Mean value	T2DM model outcome categories- HbA1c Levels, %			
	<6.5	**6.5-7.49**	**7.5-9%**	**>9%**
SBP, mmHg	117.0	125.3	139.0	158.2
HDL, mm/dL	48.7	44.8	38.2	29.0
LDL. mg/dL	105.4	110.6	119.3	131.4
Triglyceride value	137.3	171.6	228.8	308.9
Total Cholesterol	181.6	189.8	203.3	222.2
	HTN model outcome categories– SBP levels, mmHg			
Mean value	**<120**	**120-129**	**130-139**	**>140**
SBP, mmHg	115.0	125.0	135.0	145.0
HDL, mm/dL	49.7	44.9	40.1	35.3
LDL. mg/dL	104.2	110.5	116.8	123.1
Triglyceride value	128.9	170.6	212.2	253.9
Total Cholesterol	179.6	189.5	199.4	209.2

[a] interpolated from LookAhead [11]

Table S4. Calculated proportions of non-attriting patients improving ≥1 category, %

Year	T2DM		HTN	
	Digital therapeutic + TAU	TAU Alone	Digital therapeutic + TAU	TAU Alone
1	62	12	87	14
2	69	12	92	14
3	72	12	94	14

Table S5. Calculated health state utilities for the included clinical outcome categories

Clinical Outcome Category	T2DM	HTN
1	0.8393	0.8544
2 without medication	0.8187	0.8292
2 with medication	0.7987	0.8192
3	0.7633	0.7889
4	0.7374	0.7885