Supplemental tables
Assessment of outcomes divided by HBa1c categories.

Hba1c < 6%

	Death		**ACS**		**HF**		**Stroke**	
BMI	HR (95% CI)	Event, n	HR (95% CI)	Event, n	HR (95% CI)	Event, n	HR (95% CI)	Event, n
18.5-24.9	1.00	49	1.00	6	1.00	3	1.00	3
25.0-29.9	1.00 (0.67-1.51)	76	1.92 (0.67-5.51)	16	42543 (0.00-$1.66x10^{86}$	9	2.48 (0.66-9.25)	14
>30	0.77 (0.49-1.21)	44	2.59 (0.86-7.80)	15	45723 (0.00-$1.78x10^{86}$)	9	1.97 (0.48-8.03)	10

	Cardiac death		**Cancer death**		**Sepsis death**	
BMI	HR (95% CI)	Event, n	HR (95% CI)	Event, n	HR (95% CI)	Event, n
18.5-24.9	1.00	15	1.00	12	1.0	14
25.0-29.9	1.52 (0.72-3.21)	28	0.77 (0.33-1.77)	19	1.06 (0.47-2.39)	20
>30	1.33 (0.59-3.00)	15	0.60 (0.24-1.48)	13	0.82 (0.33-2.03)	12

HbA1c 6-7.0 %

	Death		ACS		HF		Stroke	
BMI	HR (95% CI)	Event, n	HR (95% CI)	Event, n	HR (95% CI)	Event, n	HR (95% CI)	Event, n
18.5-24.9	1.00	117	1.00	17	1.00	13	1.00	16
25.0-29.9	0.95 (0.74-1.23)	211	1.16 (0.63-2.14)	53	0.99 (0.48-2.03)	28	1.16 (0.63-2.14)	43
>30	1.04 (0.79-1.36)	178	1.70 (0.91-3.05)	52	1.46 (0.71-2.99)	30	1.33 (0.71-2.50)	40

	Cardiac death		Cancer death		Sepsis death	
BMI	HR (95% CI)	Event, n	HR (95% CI)	Event, n	HR (95% CI)	Event, n
18.5-24.9	1.00	38	1.00	21	1.0	39
25.0-29.9	1.24 (0.81-1.90)	82	1.08 (0.59-1.98)	46	0.57 (0.35-0.93)	47
>30	1.45 (0.94-2.25)	77	1.22 (0.63-2.33)	45	0.59 (0.35-1.02)	32

HbA1c 7-8.0 %

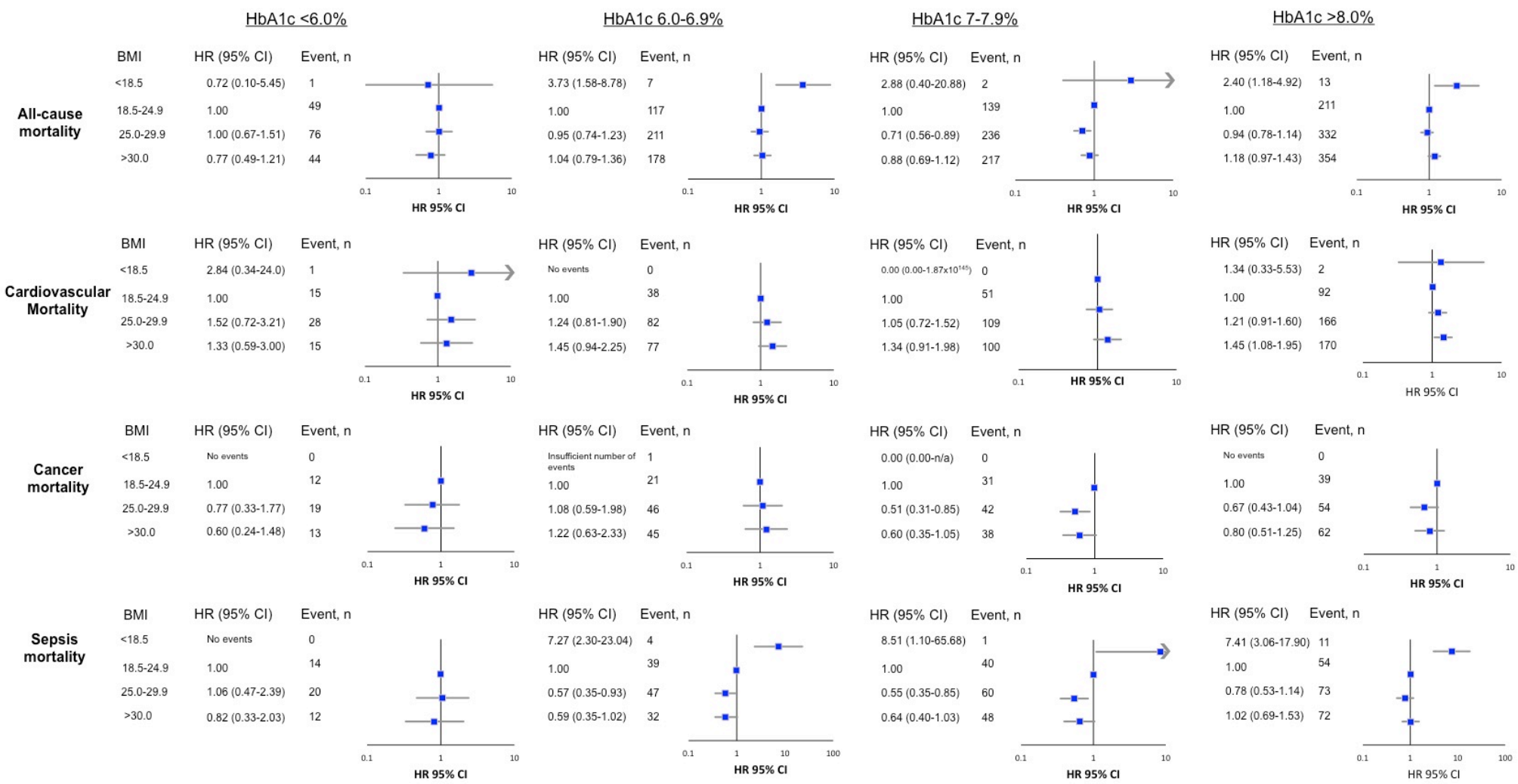
	Death		ACS		HF		Stroke	
BMI	HR (95% CI)	Event, n	HR (95% CI)	Event, n	HR (95% CI)	Event, n	HR (95% CI)	Event, n
18.5-24.9	1.00	139	1.00	13	1.00	13	1.00	24
25.0-29.9	0.71 (0.56-0.89)	236	3.40 (1.68-6.90)	64	1.86 (0.99-3.51)	43	1.01 (0.61-1.68)	51
>30	0.88 (0.69-1.12)	217	3.86 (1.90-7.87)	70	2.07 (1.08-3.98)	49	0.93 (0.54-1.61)	39

	Cardiac death		Cancer death		Sepsis death	
BMI	HR (95% CI)	Event, n	HR (95% CI)	Event, n	HR (95% CI)	Event, n
18.5-24.9	1.00	51	1.00	31	1.0	40
25.0-29.9	1.05 (0.72-1.52)	109	0.51 (0.31-0.85)	42	0.55 (0.35-0.85)	60
>30	1.34 (0.91-1.98)	100	0.60 (0.35-1.05)	38	0.64 (0.40-1.03)	48

HbA1c >8.0

	Death		ACS		HF		Stroke	
BMI	HR (95% CI)	Event, n	HR (95% CI)	Event, n	HR (95% CI)	Event, n	HR (95% CI)	Event, n
18.5-24.9	1.00	211	1.00	39	1.00	25	1.00	38
25.0-29.9	0.94 (0.78-1.14)	332	1.25 (0.83-1.88)	88	1.29 (0.77-2.16)	61	1.02 (0.66-1.58)	63
>30	1.18 (0.97-1.43)	354	1.37 (0.91-2.05)	99	1.99 (1.19-3.33)	72	1.23 (0.79-1.91)	71

	Cardiac death		Cancer death		Sepsis death	
BMI	HR (95% CI)	Event, n	HR (95% CI)	Event, n	HR (95% CI)	Event, n
18.5-24.9	1.00	92	1.00	39	1.0	54
25.0-29.9	1.21 (0.91-1.60)	166	0.67 (0.43-1.04)	54	0.78 (0.53-1.14)	73
>30	1.45 (1.08-1.95)	170	0.80 (0.51-1.25)	62	1.02 (0.69-1.53)	72


HbA1c <6.0%
HbA1c 6.0-6.9%
HbA1c 7-7.9%
HbA1c >8.0%
All-cause mortality
Cardiovascular Mortality
Cancer mortality
Sepsis mortality
BMI
HR (95% CI)
Event, n
<18.5
18.5-24.9
25.0-29.9
>30.0
0.72 (0.10-5.45)
1.00
1.00 (0.67-1.51)
0.77 (0.49-1.21)
1
49
76
44
3.73 (1.58-8.78)
1.00
0.95 (0.74-1.23)
1.04 (0.79-1.36)
7
117
211
178
2.88 (0.40-20.88)
1.00
0.71 (0.56-0.89)
0.88 (0.69-1.12)
2
139
236
217
2.40 (1.18-4.92)
1.00
0.94 (0.78-1.14)
1.18 (0.97-1.43)
13
211
332
354
2.84 (0.34-24.0)
1.00
1.52 (0.72-3.21)
1.33 (0.59-3.00)
1
15
28
15
No events
1.00
1.24 (0.81-1.90)
1.45 (0.94-2.25)
0
38
82
77
0.00 (0.00-1.87x10^145)
1.00
1.05 (0.72-1.52)
1.34 (0.91-1.98)
0
51
109
100
1.34 (0.33-5.53)
1.00
1.21 (0.91-1.60)
1.45 (1.08-1.95)
2
92
166
170
No events
1.00
0.77 (0.33-1.77)
0.60 (0.24-1.48)
0
12
19
13
Insufficient number of events
1.00
1.08 (0.59-1.98)
1.22 (0.63-2.33)
1
21
46
45
0.00 (0.00-n/a)
1.00
0.51 (0.31-0.85)
0.60 (0.35-1.05)
0
31
42
38
No events
1.00
0.67 (0.43-1.04)
0.80 (0.51-1.25)
0
39
54
62
No events
1.00
1.06 (0.47-2.39)
0.82 (0.33-2.03)
0
14
20
12
7.27 (2.30-23.04)
1.00
0.57 (0.35-0.93)
0.59 (0.35-1.02)
4
39
47
32
8.51 (1.10-65.68)
1.00
0.55 (0.35-0.85)
0.64 (0.40-1.03)
1
40
60
48
7.41 (3.06-17.90)
1.00
0.78 (0.53-1.14)
1.02 (0.69-1.53)
11
54
73
72
0.1
1
10
100
HR 95% CI