

SUPPLEMENTARY DATA

**Supplementary Table 1. Age-specific and age-standardized all-cause mortality (per 1000 person-years) in the total IGT cohort and the NGT comparison group**

Age group	25-59		60-69		70-up		All ages		Age Standardized rate
	n/pyrs	Rate	n/pyrs	Rate	n/pyrs	Rate	n/pyr	Rate	
<b>IGT group</b>	47/7294	6.4	65/2750	23.6	62/907	68.4	174/10951	15.9	15.9
<b>NGT group*</b>	26/7066	3.7	33/2655	12.4	41/902	45.5	100/10623	9.4	9.3 <sup>†</sup>

\* Included 519 people (282 men and 237 women) who had participated in the diabetes screening and had the 75g OGTT but with NGT, defined as 2-hour plasma glucose level <6.7 mmol

† Rate for normal glucose tolerance (NGT ) group is standardized to impaired glucose tolerance (IGT) group

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**Supplementary Table 2. Death rates (/1000 person-years) before and after the onset of diabetes in women\***

Age group	25-59		60-69		70-up		All ages		Age-standardized Rate <sup>†</sup>
	n/pyr	Rate	n/pyr	Rate	n/pyr	Rate	n/pyr	Rate	
<b>Time before onset of diabetes (years)</b>									
<b>0-5</b>	1/976	1.0	4/48	83.3	0/9	0.0	5/1033	4.8	20.0
<b>5-10</b>	1/527	1.9	1/29	34.5	0/11	0.0	2/567	3.5	9.5
<b>10-15</b>	0/327	0.0	0/47	0.0	1/8	125.0	1/382	2.6	5.5
<b>15-up</b>	0/215	0.0	1/136	7.4	2/11	181.8	3/362	8.3	9.6
<b>Total</b>	2/2045	1.0	6/260	23.1	3/39	76.9	11/2344	4.7	9.3
<b>Diabetes duration (years)</b>									
<b>0-5</b>	3/765	3.9	5/168	30.0	2/15	133.3	10/948	10.5	15.3
<b>5-10</b>	2/547	3.7	4/246	16.3	1/21	47.6	7/814	8.6	8.4
<b>10-15</b>	2/298	6.7	6/291	20.6	2/53	37.7	10/642	15.6	11.2
<b>15-up</b>	1/114	8.8	5/230	21.7	3/87	34.5	9/431	20.9	12.8
<b>Total</b>	8/1724	4.6	20/935	21.4	8/176	45.5	36/2835	12.7	10.2

\* time-dependent updated age and duration groups

† Age-standardized to distribution of person-years in the total IGT group of women

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**Supplementary Table 3. Death rates (/1000 person-years) before and after the onset of diabetes in men\***

Age group	25-59		60-69		70-up		All ages		Age-standardized Rate <sup>†</sup>
	n/pyr	Rate	n/pyr	Rate	n/pyr	Rate	n/pyr	Rate	
<b>Time before onset of diabetes (years)</b>									
<b>0-5</b>	7/1072	6.5	3/150	20.0	1/16	62.5	11/1238	8.9	16.9
<b>5-10</b>	6/478	12.6	2/198	10.1	1/20	50.0	9/696	12.9	16.4
<b>10-15</b>	0/243	0.0	0/172	0.0	3/60	50.0	3/475	6.3	6.0
<b>15-up</b>	1/186	5.4	2/125	16.0	7/124	56.5	10/435	23.0	14.4
<b>Total</b>	14/1979	7.1	7/645	10.9	12/220	54.5	33/2844	11.6	13.8
<b>Diabetes duration (years)</b>									
<b>0-5</b>	5/670	7.5	13/273	47.6	7/110	63.9	25/1053	23.7	25.1
<b>5-10</b>	10/438	22.8	8/300	26.7	11/119	92.4	29/857	33.8	32.3
<b>10-15</b>	5/280	17.8	5/199	25.1	12/129	93.4	22/608	36.2	28.8
<b>15-up</b>	3/154	19.5	6/139	43.1	9/117	76.9	18/410	43.9	32.8
<b>Total</b>	23/1542	14.9	32/911	35.1	39/475	82.1	94/2928	32.1	28.5

\* time-dependent updated age and duration groups

† Age-standardized to distribution of person-years in the total IGT group of men

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**Supplementary Table 4. Age-sex adjusted causes of death before and after progressing to diabetes<sup>†</sup>**

Causes of death	Deaths before onset of diabetes		Deaths after onset of diabetes	
	N (%)	Age-sex adjusted rate /1000 pyrs (95% CI)	N (%)	Age-sex adjusted Rate /1000 pyrs (95% CI)
CVD	20 (45.5)	3.6 (2.3-5.7)	58 (44.6)	6.9 (5.0-9.6)
Coronary heart disease	6 (13.6%)	1.0 (0.4-2.3)	27 (20.8%)	2.2 (1.2-4.0)
Stroke	14 (31.8%)	2.4 (1.4-4.2)	31 (23.9%)	4.3 (2.8-6.5)
Non-CVD	24 (54.5)	4.3 (2.8-6.5)	72 (55.4)	9.2 (6.9-12.2)
Cancer	15 (34.1%)	2.7 (1.6-4.7)	30 (23.1%)	3.6 (2.3-5.6)
Renal failure	0	0.0	8 (6.2%)	1.5 (0.7-3.1)
Infection	3 (6.8%)	0.4 (0.1-1.4)	14 (10.8%)	1.2 (0.5-2.7)
COPD	1 (2.3%)	0.08 (0.008-0.8)	5 (3.9%)	0.1 (0.02-0.9)
Diabetes-related*	1 (2.3%)	0.2 (0.03-1.3)	5 (3.9%)	0.5 (0.1-1.8)
Other	4 (9.1%)	0.4 (0.1-1.3)	10 (7.7%)	1.7 (0.8-3.4)
All causes	44 (100%)	7.9 (5.7-10.7)	130 (100%)	16.7 (13.6-20.3)

CVD=cardiovascular disease, CHD=coronary heart disease, COPD=chronic obstructive pulmonary disease, Other—including cirrhosis, injury, crohn’s disease and unknown cause;

<sup>†</sup> Age-sex standardized to distribution of person-years in the total IGT group;

\* death from ketoacidosis or hyperosmolar coma.