Appendix 4: Supplementary forest plots [posted as supplied by author]
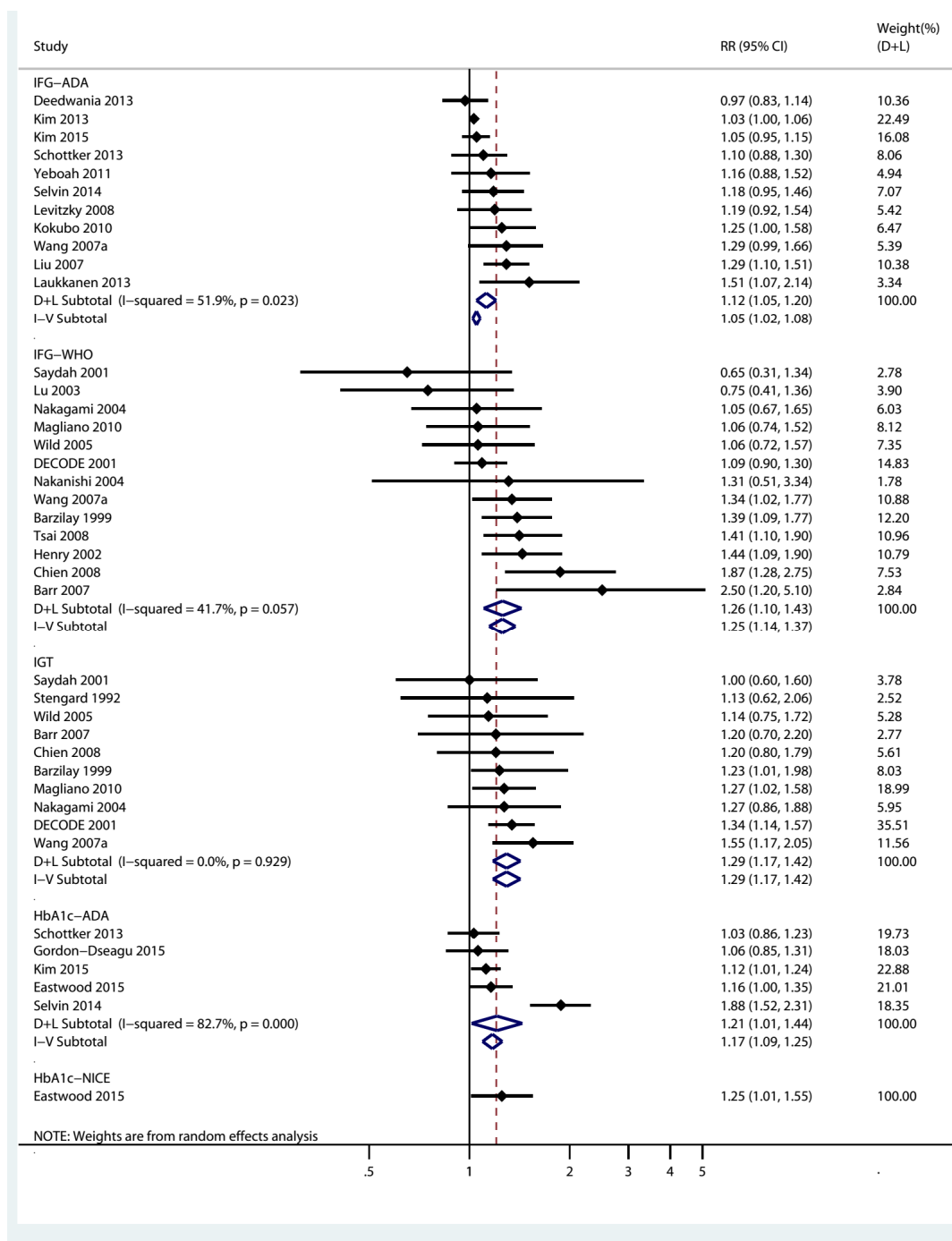

Study	RR (95% CI)	Weight(%) (D+L)
IFG–ADA		
Deedwania 2013	0.97 (0.83, 1.14)	10.36
Kim 2013	1.03 (1.00, 1.06)	22.49
Kim 2015	1.05 (0.95, 1.15)	16.08
Schottker 2013	1.10 (0.88, 1.30)	8.06
Yeboah 2011	1.16 (0.88, 1.52)	4.94
Selvin 2014	1.18 (0.95, 1.46)	7.07
Levitzky 2008	1.19 (0.92, 1.54)	5.42
Kokubo 2010	1.25 (1.00, 1.58)	6.47
Wang 2007a	1.29 (0.99, 1.66)	5.39
Liu 2007	1.29 (1.10, 1.51)	10.38
Laukkanen 2013	1.51 (1.07, 2.14)	3.34
D+L Subtotal (I–squared = 51.9%, p = 0.023)	1.12 (1.05, 1.20)	100.00
I–V Subtotal	1.05 (1.02, 1.08)	
IFG–WHO		
Saydah 2001	0.65 (0.31, 1.34)	2.78
Lu 2003	0.75 (0.41, 1.36)	3.90
Nakagami 2004	1.05 (0.67, 1.65)	6.03
Magliano 2010	1.06 (0.74, 1.52)	8.12
Wild 2005	1.06 (0.72, 1.57)	7.35
DECODE 2001	1.09 (0.90, 1.30)	14.83
Nakanishi 2004	1.31 (0.51, 3.34)	1.78
Wang 2007a	1.34 (1.02, 1.77)	10.88
Barzilay 1999	1.39 (1.09, 1.77)	12.20
Tsai 2008	1.41 (1.10, 1.90)	10.96
Henry 2002	1.44 (1.09, 1.90)	10.79
Chien 2008	1.87 (1.28, 2.75)	7.53
Barr 2007	2.50 (1.20, 5.10)	2.84
D+L Subtotal (I–squared = 41.7%, p = 0.057)	1.26 (1.10, 1.43)	100.00
I–V Subtotal	1.25 (1.14, 1.37)	
IGT		
Saydah 2001	1.00 (0.60, 1.60)	3.78
Stengard 1992	1.13 (0.62, 2.06)	2.52
Wild 2005	1.14 (0.75, 1.72)	5.28
Barr 2007	1.20 (0.70, 2.20)	2.77
Chien 2008	1.20 (0.80, 1.79)	5.61
Barzilay 1999	1.23 (1.01, 1.98)	8.03
Magliano 2010	1.27 (1.02, 1.58)	18.99
Nakagami 2004	1.27 (0.86, 1.88)	5.95
DECODE 2001	1.34 (1.14, 1.57)	35.51
Wang 2007a	1.55 (1.17, 2.05)	11.56
D+L Subtotal (I–squared = 0.0%, p = 0.929)	1.29 (1.17, 1.42)	100.00
I–V Subtotal	1.29 (1.17, 1.42)	
HbA1c–ADA		
Schottker 2013	1.03 (0.86, 1.23)	19.73
Gordon–Dseagu 2015	1.06 (0.85, 1.31)	18.03
Kim 2015	1.12 (1.01, 1.24)	22.88
Eastwood 2015	1.16 (1.00, 1.35)	21.01
Selvin 2014	1.88 (1.52, 2.31)	18.35
D+L Subtotal (I–squared = 82.7%, p = 0.000)	1.21 (1.01, 1.44)	100.00
I–V Subtotal	1.17 (1.09, 1.25)	
HbA1c–NICE		
Eastwood 2015	1.25 (1.01, 1.55)	100.00

NOTE: Weights are from random effects analysis

Fig A. Association between prediabetes and composite cardiovascular events after adjusting for smoking D+L =DerSimonian and Laird random-effects models; HbA1c-ADA =prediabetes defined as raised HbA1c according to the American Diabetes Association criteria (39-47 mmol/mol); HbA1c-NICE =prediabetes defined as raised HbA1c according to the NICE guidance (42-47 mmol/mol); IFG-ADA =impaired fasting glucose according to the American Diabetes Association criteria (fasting plasma glucose of 5.6-6.9 mmol/L); IFG-WHO =impaired fasting glucose according to the World Health Organization criteria (fasting plasma glucose of 6.1-6.9 mmol/L); IGT =impaired glucose tolerance; I-V = inverse variance fixed-effects models
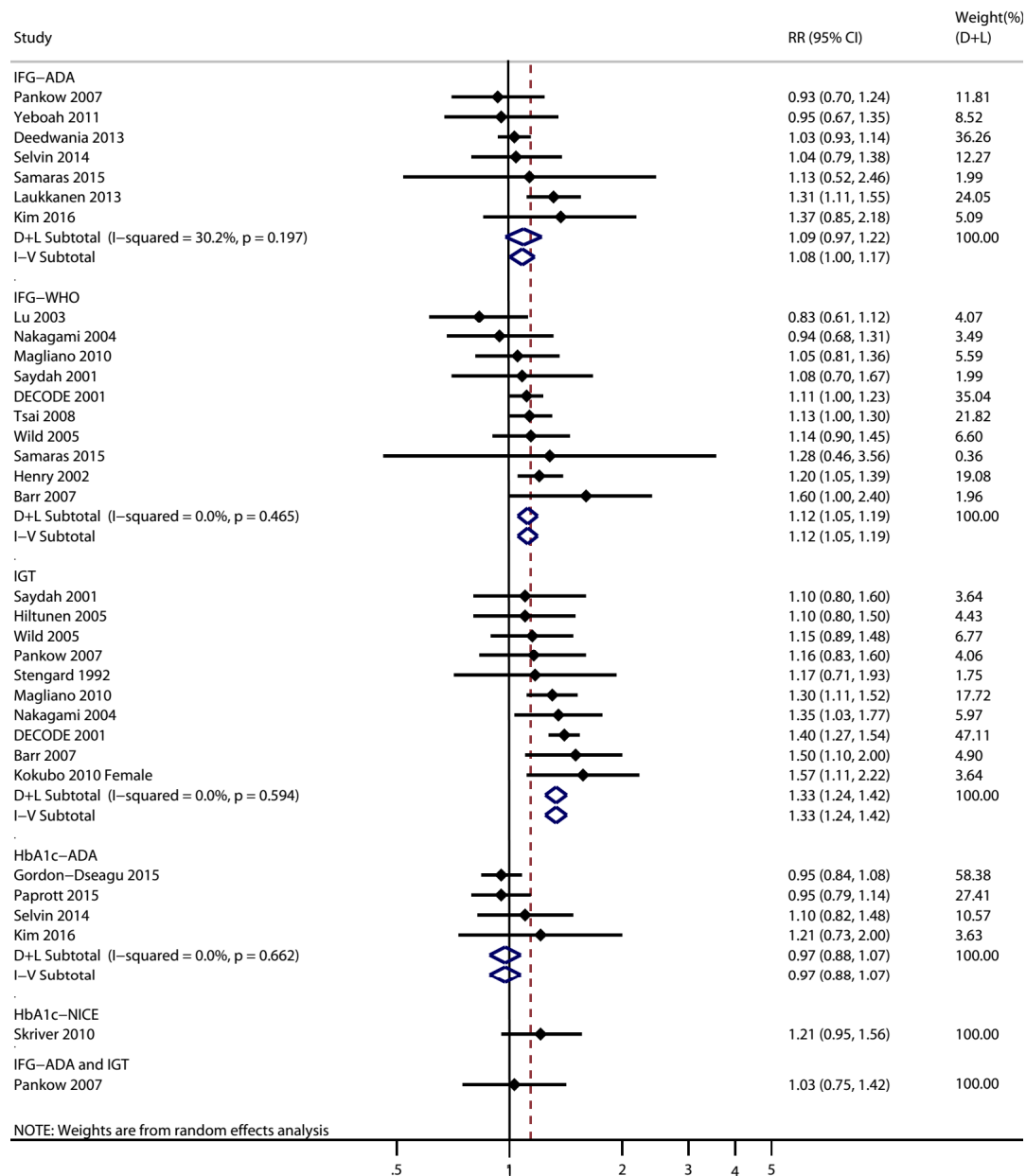
Study	RR (95% CI)	Weight(%) (D+L)
IFG−ADA		
Pankow 2007	0.93 (0.70, 1.24)	11.81
Yeboah 2011	0.95 (0.67, 1.35)	8.52
Deedwania 2013	1.03 (0.93, 1.14)	36.26
Selvin 2014	1.04 (0.79, 1.38)	12.27
Samaras 2015	1.13 (0.52, 2.46)	1.99
Laukkanen 2013	1.31 (1.11, 1.55)	24.05
Kim 2016	1.37 (0.85, 2.18)	5.09
D+L Subtotal (I−squared = 30.2%, p = 0.197)	1.09 (0.97, 1.22)	100.00
I−V Subtotal	1.08 (1.00, 1.17)	
IFG−WHO		
Lu 2003	0.83 (0.61, 1.12)	4.07
Nakagami 2004	0.94 (0.68, 1.31)	3.49
Magliano 2010	1.05 (0.81, 1.36)	5.59
Saydah 2001	1.08 (0.70, 1.67)	1.99
DECODE 2001	1.11 (1.00, 1.23)	35.04
Tsai 2008	1.13 (1.00, 1.30)	21.82
Wild 2005	1.14 (0.90, 1.45)	6.60
Samaras 2015	1.28 (0.46, 3.56)	0.36
Henry 2002	1.20 (1.05, 1.39)	19.08
Barr 2007	1.60 (1.00, 2.40)	1.96
D+L Subtotal (I−squared = 0.0%, p = 0.465)	1.12 (1.05, 1.19)	100.00
I−V Subtotal	1.12 (1.05, 1.19)	
IGT		
Saydah 2001	1.10 (0.80, 1.60)	3.64
Hiltunen 2005	1.10 (0.80, 1.50)	4.43
Wild 2005	1.15 (0.89, 1.48)	6.77
Pankow 2007	1.16 (0.83, 1.60)	4.06
Stengard 1992	1.17 (0.71, 1.93)	1.75
Magliano 2010	1.30 (1.11, 1.52)	17.72
Nakagami 2004	1.35 (1.03, 1.77)	5.97
DECODE 2001	1.40 (1.27, 1.54)	47.11
Barr 2007	1.50 (1.10, 2.00)	4.90
Kokubo 2010 Female	1.57 (1.11, 2.22)	3.64
D+L Subtotal (I−squared = 0.0%, p = 0.594)	1.33 (1.24, 1.42)	100.00
I−V Subtotal	1.33 (1.24, 1.42)	
HbA1c−ADA		
Gordon−Dseagu 2015	0.95 (0.84, 1.08)	58.38
Paprott 2015	0.95 (0.79, 1.14)	27.41
Selvin 2014	1.10 (0.82, 1.48)	10.57
Kim 2016	1.21 (0.73, 2.00)	3.63
D+L Subtotal (I−squared = 0.0%, p = 0.662)	0.97 (0.88, 1.07)	100.00
I−V Subtotal	0.97 (0.88, 1.07)	
HbA1c−NICE		
Skriver 2010	1.21 (0.95, 1.56)	100.00
IFG−ADA and IGT		
Pankow 2007	1.03 (0.75, 1.42)	100.00

NOTE: Weights are from random effects analysis

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Fig B. Association between prediabetes and risk of all-cause mortality after adjusting for smoking
D+L =DerSimonian and Laird random-effects models; HbA1c-ADA =prediabetes defined as raised HbA1c according to the American Diabetes Association criteria (39-47 mmol/mol); HbA1c-NICE =prediabetes defined as raised HbA1c according to the NICE guidance (42-47 mmol/mol); IFG-ADA =impaired fasting glucose according to the American Diabetes Association criteria (fasting plasma glucose of 5.6-6.9 mmol/L); IFG-WHO =impaired fasting glucose according to the World Health Organization criteria (fasting plasma glucose of 6.1-6.9 mmol/L); IGT =impaired glucose tolerance; I-V = inverse variance fixed-effects models