

# Supplementary Materials: Abdominal Obesity and Colorectal Cancer Risk: Systematic Review and Meta-Analysis of Prospective Studies

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Table S1. Quality assessment according to the nine-star Newcastle-Ottawa Scale (NOS)<sup>a</sup>.

Study	Selection			Demonstration That Outcome of Interest Was Not Present at Start of Study	Comparability of Cohorts on the Basis of the Design or Analysis	Outcome Assessment of Outcome	Was Followed Up Enough for Outcomes to Occur	Long Follow Up of Cohorts	Adequacy of Follow Up of Cohorts	Total Stars
	Representativeness of Exposed Cohort	Selection of the Non-Exposed Cohort	Ascertainment of Exposure							
Moore(ages 30–54 y)(2004) USA	1	1	1	1	2	1	1	0	8	
Moore(ages 55–79 y)(2004) USA	1	1	1	1	2	1	1	0	8	
Larsson(2006) Sweden	0	1	1	1	2	1	1	0	7	
Pischon(2006) Europe	1	1	1	1	2	1	1	0	8	
MacInnis(2005) Australia	0	1	1	1	2	1	1	0	7	
Giovannucci(1995) USA	1	1	1	1	2	1	1	0	8	
Martinez(1997) USA	1	1	1	1	2	1	1	0	8	
Bostick(1994) USA	0	1	1	1	2	1	1	0	7	
MacInnis(2004) Australia	0	1	1	1	2	1	1	0	7	
Wang(2008) USA	1	1	1	1	2	1	1	0	8	
Oxentenko(2010) USA	1	1	1	1	2	1	1	0	8	
Li(2013) China	0	1	1	1	2	1	1	0	7	
Keimling(2013) USA	0	1	1	1	2	1	1	0	7	
Kabat(2015) USA	0	1	1	1	2	1	1	0	7	
Park(2011) UK	1	1	1	1	2	1	1	0	8	
Folsom(2000) USA	0	1	1	1	2	1	1	0	7	
Schoen(1999) USA	0	1	1	1	1	1	1	0	6	
MacInnis(2006) Australia	0	1	1	1	2	1	1	0	7	
Ahmed(2006) USA	1	1	1	1	2	1	1	0	8	

<sup>a</sup> A study can be awarded a maximum of one star for each numbered item within the Selection and Outcome categories and a maximum of two stars for Comparability.

Table S2. Detailed amounts of waist circumference and waist to hip ratio.

Study	Measure of Adiposity	Categories(Measurement Unit)	Highest vs. Lowest(Measurement Unit)
Moore(ages 30–54 y)(2004) USA	WC	Men: <83.8cm 83.8-<94.0cm 94.0-<101.6cm ≥101.6cm	Men: <83.8cm vs. ≥101.6cm
		Women: <81.3cm 81.3-<91.4cm 91.4-<99.1cm ≥99.1cm	Women: <81.3cm vs. ≥99.1cm
Moore(ages 55–79 y)(2004) USA	WC	Men: <83.8cm 83.8-<94.0cm 94.0-<101.6cm ≥101.6cm	Men: <83.8cm vs. ≥101.6cm
		Women: <81.3cm 81.3-<91.4cm 91.4-<99.1cm ≥99.1cm	Women: <81.3cm vs. ≥99.1cm
Larsson(2006) Sweden	WC	Men: <88cm 88-92cm 93-97cm 98-103cm ≥104cm	Men: <88cm vs. ≥104cm
		Men: <86.0cm 86.0-91.8cm 91.9-96.5cm 96.6-102.9cm ≥103.0cm	Men: <86.0cm vs. ≥103.0cm
Pischon(2006) Europe	WHR	Women: <70.2cm 70.2-75.8cm 75.9-80.9cm 81.0-88.9cm ≥89.0cm	Women: <70.2cm vs. ≥89.0cm
		Men: <0.887 0.887-0.922 0.923-0.952 0.953-0.989 ≥0.990	Men: <0.887 vs. ≥0.990
Maclnnis(2005) Australia	WHR	Women: <0.734 0.734-0.768 0.769-0.802 0.803-0.845 ≥0.846	Women: <0.734 vs. ≥0.846
		Women: <80cm 80-87cm ≥88cm	Women: <80cm vs. ≥88cm
Giovannucci(1995) USA	WHR	Women: <0.75 0.75-0.79 ≥0.80	Women: <0.75 vs. ≥0.80
		Men: <35in 35-36.9in 37-38.9in 39-42.9in ≥43in	Men: <35in vs. ≥43in
Martinez(1997) USA	WHR	Men: <0.90 0.90-0.92 0.93-0.94 0.95-0.98 ≥0.99	Men: <0.90 vs. ≥0.99
		Women: ≤27.5in >34in	Women: ≤27.5in vs. >34in
Bostick(1994) USA	WHR	Women: <0.728 0.728-0.758 0.759-0.790 0.791-0.833 >0.833	Women: <0.728 vs. >0.833
		Women: <0.764 0.764-0.808 0.809-0.852 0.853-0.906 >0.906	Women: <0.764 vs. >0.906
Maclnnis(2004) Australia	WHR	Men: <87.0cm 87.0-92.9cm 93.0-99.3cm >99.3cm	Men: <87.0cm vs. >99.3cm
		Men: <0.88 0.88-0.92 0.93-0.96 >0.96	Men: <0.88 vs. >0.96
Wang(2008) USA	WC	Men: <95cm 95-<105cm 105-<120cm ≥120cm	Men: <95cm vs. ≥120cm
		Women: <85cm 85-<95cm 95-<110cm ≥110cm	Women: <85cm vs. ≥110cm
Oxentenko(2010) USA	WC	Women: ≤77.15cm 77.16-86.04cm 86.05-96.52cm ≥96.53cm	Women: ≤77.15cm vs. ≥96.53cm

	WHR	Women: $\leq 0.78$ 0.79-0.83 0.84-0.89 $\geq 0.90$	Women: $\leq 0.78$ vs. $\geq 0.90$
Li(2013) China	WC	Men: <78cm 78-82cm 83-86cm 87-91cm $\geq 92$ cm Women: <70cm 70-74cm 75-79cm 80-84cm $\geq 85$ cm	Men: <78cm vs. $\geq 92$ cm Women: <70cm vs. $\geq 85$ cm
	WHR	Men: <0.85 0.85-0.88 0.89-0.90 0.91-0.94 $\geq 0.95$ Women: <0.77 0.77-0.78 0.79-0.81 0.82-0.84 $\geq 0.85$	Men: <0.85 vs. $\geq 0.95$ Women: <0.77 vs. $\geq 0.85$
	WC	Men: <89.5cm 89.5-<93.5cm 93.5-<99.0cm 99.0-<106.5cm $\geq 106.5$ cm Women: <73.6cm 73.6-<80.0cm 80.0-<86.0cm 86.0-<94.5cm $\geq 94.5$ cm	Men: <89.5cm vs. $\geq 106.5$ cm Women: <73.6cm vs. $\geq 94.5$ cm
Keimling(2013) USA	WHR	Men: <0.898 0.898-<0.929 0.929-<0.956 0.956-<1.000 $\geq 1.000$ Women: <0.746 0.746-<0.786 0.786-<0.826 0.826-<0.877 $\geq 0.877$	Men: <0.898 vs. $\geq 1.000$ Women: <0.746 vs. $\geq 0.877$
Kabat(2015) USA	WC	ND	ND
	WHR	ND	ND
Park(2011) UK	WC	Men: <88.0cm 88.0-93.0cm 93.1-97.6cm 97.7-103.2cm $\geq 103.3$ cm Women: <73.0cm 73.0-78.0cm 78.1-83.3cm 83.4-90.4cm $\geq 90.5$ cm	Men: <88.0cm vs. $\geq 103.3$ cm Women: <73.0cm vs. $\geq 90.5$ cm
	WHR	Men: <0.883 0.883-0.915 0.916-0.944 0.945-0.978 $\geq 0.979$ Women: <0.739 0.739-0.772 0.773-0.803 0.804-0.843 $\geq 0.844$	Men: <0.883 vs. $\geq 0.979$ Women: <0.739 vs. $\geq 0.844$
	WC	Women: <74.3cm 74.3-<80.0cm 80.0-<87.3cm 87.3cm-<96.0cm $\geq 96.0$ cm	Women: <74.3cm vs. $\geq 96.0$ cm
Folsom(2000) USA	WHR	Women: <0.762 0.762-<0.805 0.805-<0.848 0.848-<0.901cm $\geq 0.901$	Women: <0.762 vs. $\geq 0.901$
Schoen(1999) USA	WC	Men: 69-91cm 91.1-97cm 97.1-104cm 104.1-145.5cm Women: 32.5-82cm 82.1-91.5cm 91.6-101.1cm 101.2-167cm	Men: 69-91cm vs. 104.1-145.5cm Women: 32.5-82cm vs. 101.2-167cm
	WHR	Men: 0.61-0.93 0.931-0.97 0.971-1.00 1.01-2.33 Women: 0.61-0.83 0.831-0.90 0.91-0.96 0.961-2.06	Men: 0.61-0.93 vs. 1.01-2.33 Women: 0.61-0.83 vs. 0.961-2.06
	WC	Men: <94cm 94-101.9cm $\geq 102$ cm Women: <80cm 80-87.9cm $\geq 88$ cm	Men: <94cm vs. $\geq 102$ cm Women: <80cm vs. $\geq 88$ cm
MacInnis(2006) Australia	WHR	Men: <0.90 0.90-0.94 $\geq 0.95$ Women: <0.75 0.75-0.79 $\geq 0.80$	Men: <0.90 vs. $\geq 0.95$ Women: <0.75 vs. $\geq 0.80$
Ahmed(2006) USA	WC	Men: <102cm $\geq 102$ cm Women: <88cm $\geq 88$ cm	Men: <102cm vs. $\geq 102$ cm Women: <88cm vs. $\geq 88$ cm

WC, waist circumference; WHR, waist to hip ratio; ND, no data.

**Figure S1.** (a) Pooled relative risk of CC associated with waist circumference; (b) Pooled relative risk of CC associated with waist to hip ratio; (c) Pooled relative risk of RC associated with waist circumference; (d) Pooled relative risk of RC associated with waist to hip ratio

