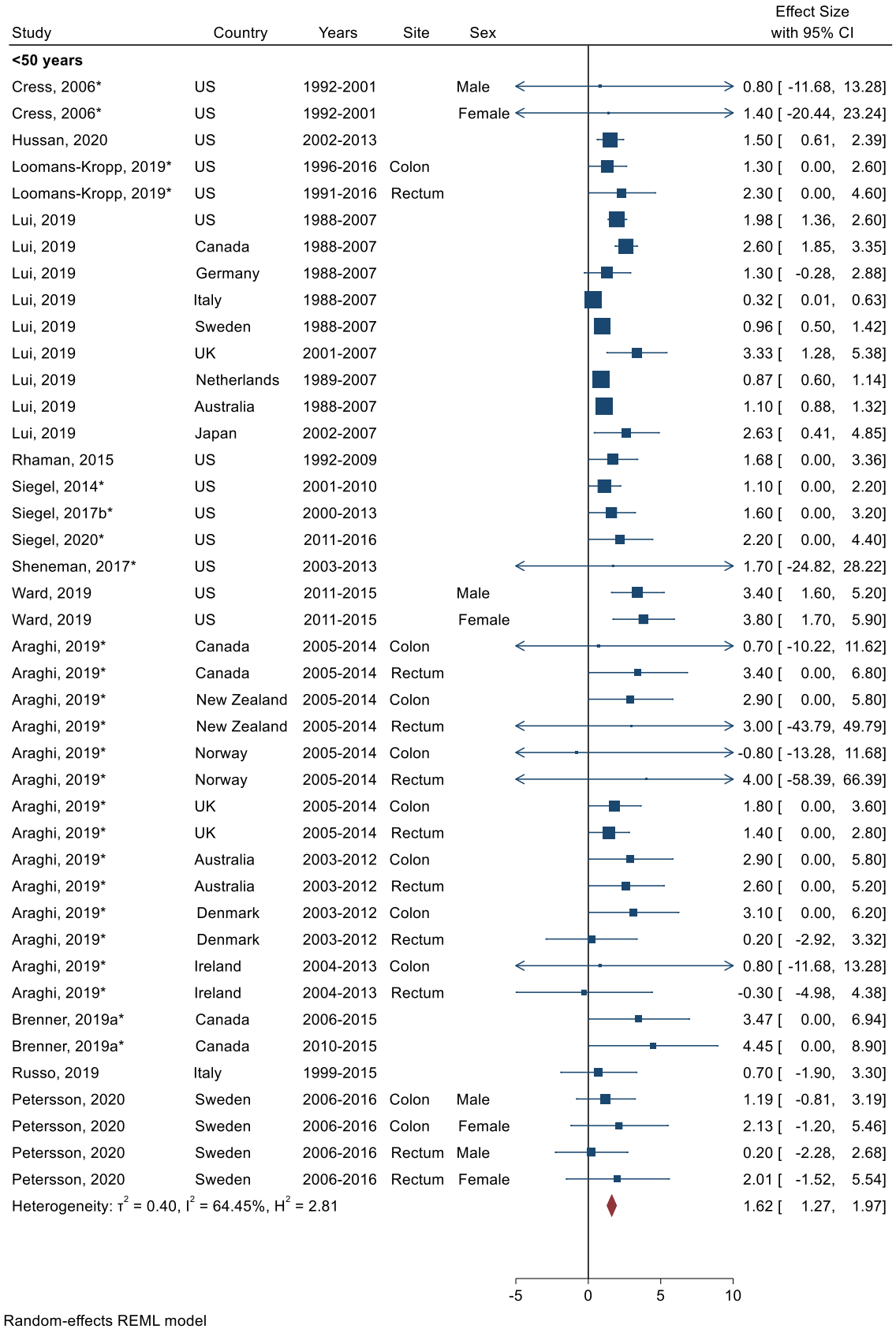
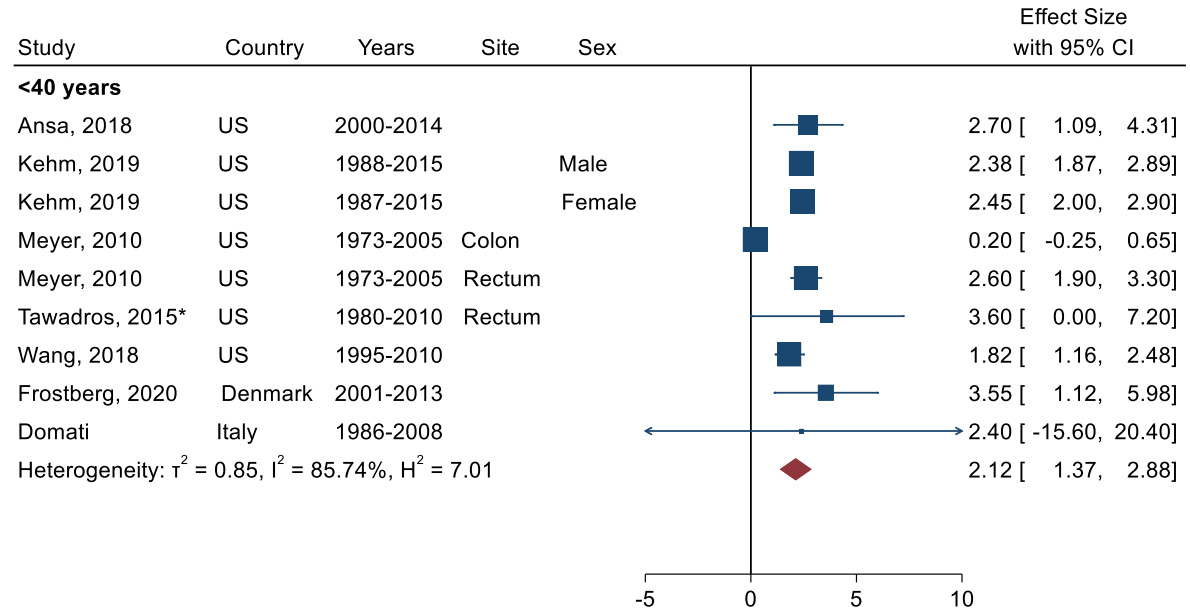
Supplementary Figure 2

A.

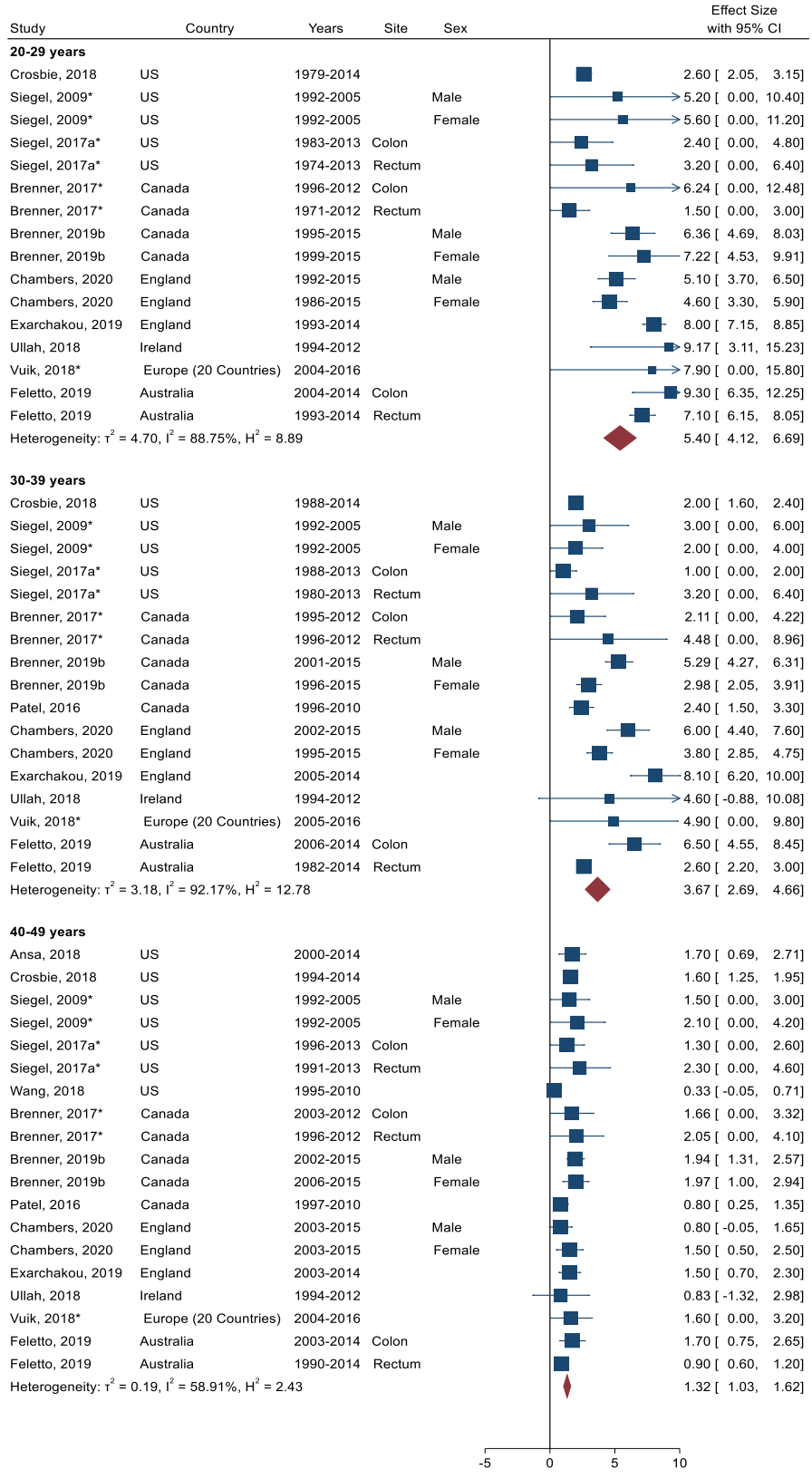


B.



Random-effects REML model

C.


Study
Country
Years
Site
Sex
Effect Size with 95% CI
20-29 years
Crosbie, 2018 US 1979-2014 2.60 [2.05, 3.15]
Siegel, 2009* US 1992-2005 Male 5.20 [0.00, 10.40]
Siegel, 2009* US 1992-2005 Female 5.60 [0.00, 11.20]
Siegel, 2017a* US 1983-2013 Colon 2.40 [0.00, 4.80]
Siegel, 2017a* US 1974-2013 Rectum 3.20 [0.00, 6.40]
Brenner, 2017* Canada 1996-2012 Colon 6.24 [0.00, 12.48]
Brenner, 2017* Canada 1971-2012 Rectum 1.50 [0.00, 3.00]
Brenner, 2019b Canada 1995-2015 Male 6.36 [4.69, 8.03]
Brenner, 2019b Canada 1999-2015 Female 7.22 [4.53, 9.91]
Chambers, 2020 England 1992-2015 Male 5.10 [3.70, 6.50]
Chambers, 2020 England 1986-2015 Female 4.60 [3.30, 5.90]
Exarchakou, 2019 England 1993-2014 8.00 [7.15, 8.85]
Ullah, 2018 Ireland 1994-2012 9.17 [3.11, 15.23]
Vuik, 2018* Europe (20 Countries) 2004-2016 7.90 [0.00, 15.80]
Feletto, 2019 Australia 2004-2014 Colon 9.30 [6.35, 12.25]
Feletto, 2019 Australia 1993-2014 Rectum 7.10 [6.15, 8.05]
Heterogeneity: τ^2 = 4.70, I^2 = 88.75%, H^2 = 8.89 5.40 [4.12, 6.69]
30-39 years
Crosbie, 2018 US 1988-2014 2.00 [1.60, 2.40]
Siegel, 2009* US 1992-2005 Male 3.00 [0.00, 6.00]
Siegel, 2009* US 1992-2005 Female 2.00 [0.00, 4.00]
Siegel, 2017a* US 1988-2013 Colon 1.00 [0.00, 2.00]
Siegel, 2017a* US 1980-2013 Rectum 3.20 [0.00, 6.40]
Brenner, 2017* Canada 1995-2012 Colon 2.11 [0.00, 4.22]
Brenner, 2017* Canada 1996-2012 Rectum 4.48 [0.00, 8.96]
Brenner, 2019b Canada 2001-2015 Male 5.29 [4.27, 6.31]
Brenner, 2019b Canada 1996-2015 Female 2.98 [2.05, 3.91]
Patel, 2016 Canada 1996-2010 2.40 [1.50, 3.30]
Chambers, 2020 England 2002-2015 Male 6.00 [4.40, 7.60]
Chambers, 2020 England 1995-2015 Female 3.80 [2.85, 4.75]
Exarchakou, 2019 England 2005-2014 8.10 [6.20, 10.00]
Ullah, 2018 Ireland 1994-2012 4.60 [-0.88, 10.08]
Vuik, 2018* Europe (20 Countries) 2005-2016 4.90 [0.00, 9.80]
Feletto, 2019 Australia 2006-2014 Colon 6.50 [4.55, 8.45]
Feletto, 2019 Australia 1982-2014 Rectum 2.60 [2.20, 3.00]
Heterogeneity: τ^2 = 3.18, I^2 = 92.17%, H^2 = 12.78 3.67 [2.69, 4.66]
40-49 years
Ansa, 2018 US 2000-2014 1.70 [0.69, 2.71]
Crosbie, 2018 US 1994-2014 1.60 [1.25, 1.95]
Siegel, 2009* US 1992-2005 Male 1.50 [0.00, 3.00]
Siegel, 2009* US 1992-2005 Female 2.10 [0.00, 4.20]
Siegel, 2017a* US 1996-2013 Colon 1.30 [0.00, 2.60]
Siegel, 2017a* US 1991-2013 Rectum 2.30 [0.00, 4.60]
Wang, 2018 US 1995-2010 0.33 [-0.05, 0.71]
Brenner, 2017* Canada 2003-2012 Colon 1.66 [0.00, 3.32]
Brenner, 2017* Canada 1996-2012 Rectum 2.05 [0.00, 4.10]
Brenner, 2019b Canada 2002-2015 Male 1.94 [1.31, 2.57]
Brenner, 2019b Canada 2006-2015 Female 1.97 [1.00, 2.94]
Patel, 2016 Canada 1997-2010 0.80 [0.25, 1.35]
Chambers, 2020 England 2003-2015 Male 0.80 [-0.05, 1.65]
Chambers, 2020 England 2003-2015 Female 1.50 [0.50, 2.50]
Exarchakou, 2019 England 2003-2014 1.50 [0.70, 2.30]
Ullah, 2018 Ireland 1994-2012 0.83 [-1.32, 2.98]
Vuik, 2018* Europe (20 Countries) 2004-2016 1.60 [0.00, 3.20]
Feletto, 2019 Australia 2003-2014 Colon 1.70 [0.75, 2.65]
Feletto, 2019 Australia 1990-2014 Rectum 0.90 [0.60, 1.20]
Heterogeneity: τ^2 = 0.19, I^2 = 58.91%, H^2 = 2.43 1.32 [1.03, 1.62]
-5
0
5
10
Random-effects REML model