## Study logOR [95%CI] P-value Riaz, Melanoma, n = 33-1.29 [-2.92; 0.34] 0.12 Liu, Melanoma, n = 112 -0.84 [-1.80; 0.12] 0.09 Nathanson, Melanoma, n = 24 - 0.83 [-2.46; 0.80]0.32

Van\_Allen, Melanoma, n = 39 -0.28 [-2.12; 1.56]0.76

Hugo, Melanoma, n = 27 0.33 [-1.67; 2.33] 0.74

Total -0.72 [-1.37; -0.07] Heterogeneity:  $\chi_4^2 = 1.83 \ (P = .77), \ I^2 = 0\% \ [0\%; 79\%]$ 

Test for overall effect: z = -2.17 (P = .03) -1.5-0.5 0.511.5 Estimated logOR