Study logOR [95%CI] P-value Riaz, Melanoma, n = 33-1.17 [-2.58; 0.24] 0.11 -0.88 [-1.72; -0.04] Liu, Melanoma, n = 112 0.04 Van_Allen, Melanoma, n = 39 -0.75 [-2.53; 1.03]0.41

Nathanson, Melanoma, n = 24 - 0.54 [-2.01; 0.93]0.47

Hugo, Melanoma, n = 27 0.28 [-1.50; 2.06] 0.76

Total -0.74 [-1.32; -0.16]

Heterogeneity: $\chi_4^2 = 1.79 \ (P = .77), \ I^2 = 0\% \ [0\%; 79\%]$ $-1.5 - 0.5 \ 0.511.5$

Test for overall effect: z = -2.52 (P = .01) Estimated logOR