

**Source****(95% CI)****Sequencing = WES**

Liu, Melanoma, n = 144	-0.84 [-1.35; -0.33]
Nathanson, Melanoma, n = 64	-0.74 [-1.48; 0.00]
Hugo, Melanoma, n = 38	-0.69 [-1.61; 0.23]
Snyder, Ureteral, n = 25	-0.45 [-1.43; 0.53]
Van_Allen, Melanoma, n = 112	-0.21 [-0.70; 0.28]
Miao.2, Melanoma, n = 47	-0.14 [-1.08; 0.80]
Miao.1, Kidney, n = 35	-0.05 [-1.03; 0.93]
Riaz, Melanoma, n = 68	0.03 [-0.68; 0.74]
Miao.2, Lung, n = 34	0.07 [-1.11; 1.25]
Miao.2, Bladder, n = 27	0.08 [-1.17; 1.33]
Braun, Kidney, n = 249	0.23 [-0.14; 0.60]

**Total** -0.25 [-0.54; 0.03]Heterogeneity:  $\chi^2_{10} = 15.44$  ( $P = .12$ ),  $I^2 = 35\%$  [0%; 68%]**Sequencing = TGS**

Samstein, Unknown, n = 122	-0.78 [-1.39; -0.17]
Samstein, Kidney, n = 156	-0.75 [-1.42; -0.08]
Samstein, Melanoma, n = 214	-0.61 [-1.10; -0.12]
Samstein, Colon, n = 129	-0.58 [-1.13; -0.03]
Samstein, Bladder, n = 158	-0.43 [-0.88; 0.02]
Samstein, Stomach, n = 46	-0.42 [-1.28; 0.44]
Mariathasan, Kidney, n = 58	-0.31 [-1.17; 0.55]
Mariathasan, Bladder, n = 158	-0.29 [-0.70; 0.12]
Mariathasan, Ureteral, n = 21	-0.25 [-1.43; 0.93]
Samstein, HNC, n = 145	-0.24 [-0.69; 0.21]
Samstein, Esophagus, n = 83	-0.13 [-0.78; 0.52]
Samstein, Ureteral, n = 51	-0.13 [-1.07; 0.81]
Samstein, Breast, n = 46	-0.07 [-0.78; 0.64]
Samstein, Lung, n = 355	0.06 [-0.21; 0.33]
Samstein, Brain, n = 117	0.24 [-0.19; 0.67]
Samstein, Eye, n = 22	0.49 [-0.53; 1.51]

**Total** -0.26 [-0.44; -0.08]Heterogeneity:  $\chi^2_{15} = 21.5$  ( $P = .12$ ),  $I^2 = 30\%$  [0%; 62%]**Total** -0.26 [-0.41; -0.11]Heterogeneity:  $\chi^2_{26} = 36.96$  ( $P = .08$ ),  $I^2 = 30\%$  [0%; 56%]Test for overall effect:  $z = -3.36$  ( $P < .001$ )Test for subgroup differences:  $\chi^2_1 = 0.00$  ( $P = .96$ )