

Hereafter, we investigated whether an altered energy metabolism could underlie these weight-lowering effects of exenatide. Aside from a trend towards a lower glucose oxidation, exenatide did not evidently affect the REE (nor when corrected for lean mass), respiratory quotient (RQ) or substrate oxidation in the total study cohort (**Fig. 1**) or when studying ethnicities separately (**Supplemental Fig. 2**). As expected, both before and after exenatide, cold exposure increased REE (+7%, $p<0.01$ and +11%, $p<0.001$) and lowered the RQ (-5%, $p<0.001$ and -3%, $p<0.05$), reflected by an increased lipid oxidation (+35%, $p<0.001$ and +28%, $p<0.001$) and decreased glucose oxidation (-28%, $p<0.01$ and -14%, $p=0.12$) in the total study cohort (**Fig. 1**), which was not significantly different before and after exenatide.

