



## PDH mechanism con't.

Transfer of OH-ethyl (derived from pyruvate; in red) to the sulfhydryl head group of lipoic acid. Note the oxidation state of each sulfur before attack by OH-ethyl is "+3 e's". After attack, each is +4 e's. Thus 2 e's have been transferred constituting the  $2e^-$  reduction of lipoic acid.