Large socioeconomic disparities in health exist in the United States and many other developed countries. Although disparities in health by socioeconomic status (SES) have been documented across a number of different health conditions, much less is known about trajectories in health by SES. Much of the latter has been based on self-reported data. This study uses data from the nationally-representative National Health and Nutrition Examination Survey, pooled from 1999 through 2014, to systematically and rigorously document SES (poverty ratio interval) disparities in health between 12 and 80 years (early adolescence through old age) in the United States, focusing on objective measures of cardiovascular and metabolic health from lab tests or body measurements and granular age intervals. Describing the pattern of gradients by age points to possible sources of health disparities and can facilitate the appropriate targeting of interventions.