

Scientific quality is at the top of the image. Contributors to scientific quality (pictured below scientific quality) include reconstructability as well as data quality. The written methods (protocol(s)/standard operating procedures, pictured below reconstructability & data quality) should describe the elements as identified by NIH as critical, which are represented along the bottom of the image, under protocol(s)/standard operating procedures. These include: scientific premise, rigorous experimental design, consideration of biological variables, and key resource authentication.