Clinical Chemistry Interest Group Report for the 69th ASMS Conference in Philadelphia

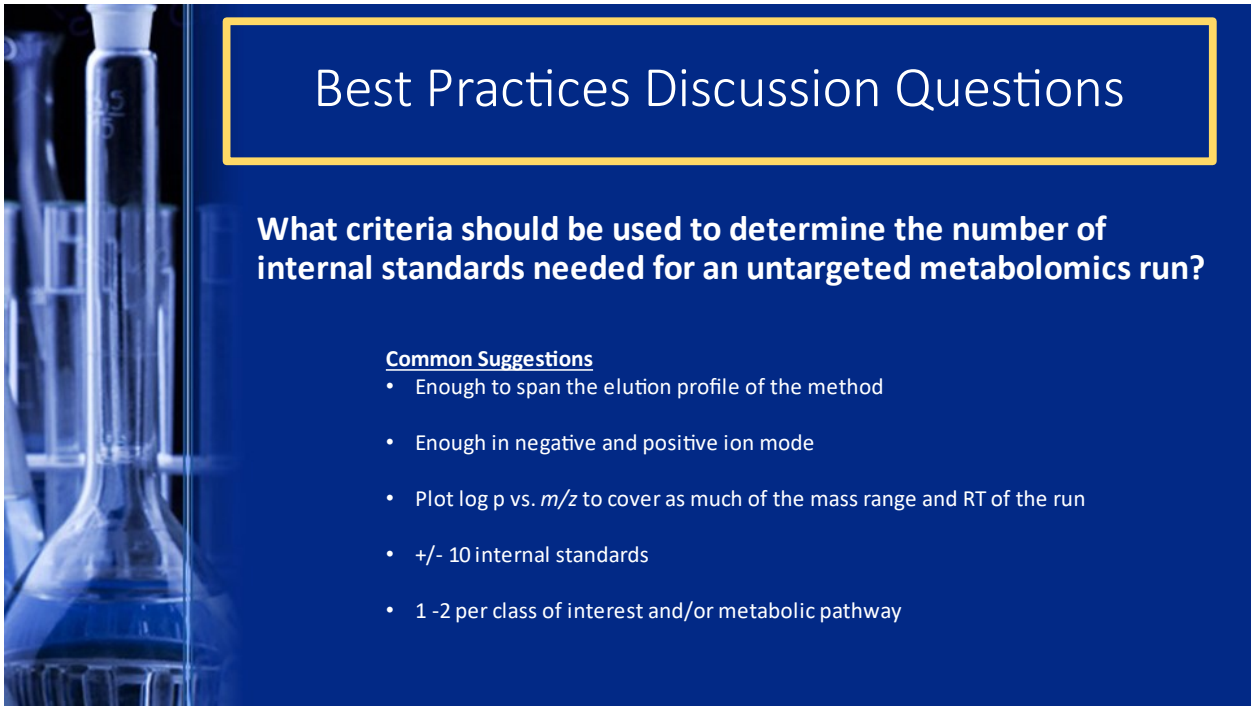
Submitted 12-12-2021 by Dr. Donald Chace, Co-Chair of the ASMS Clinical Chemistry Interest Group

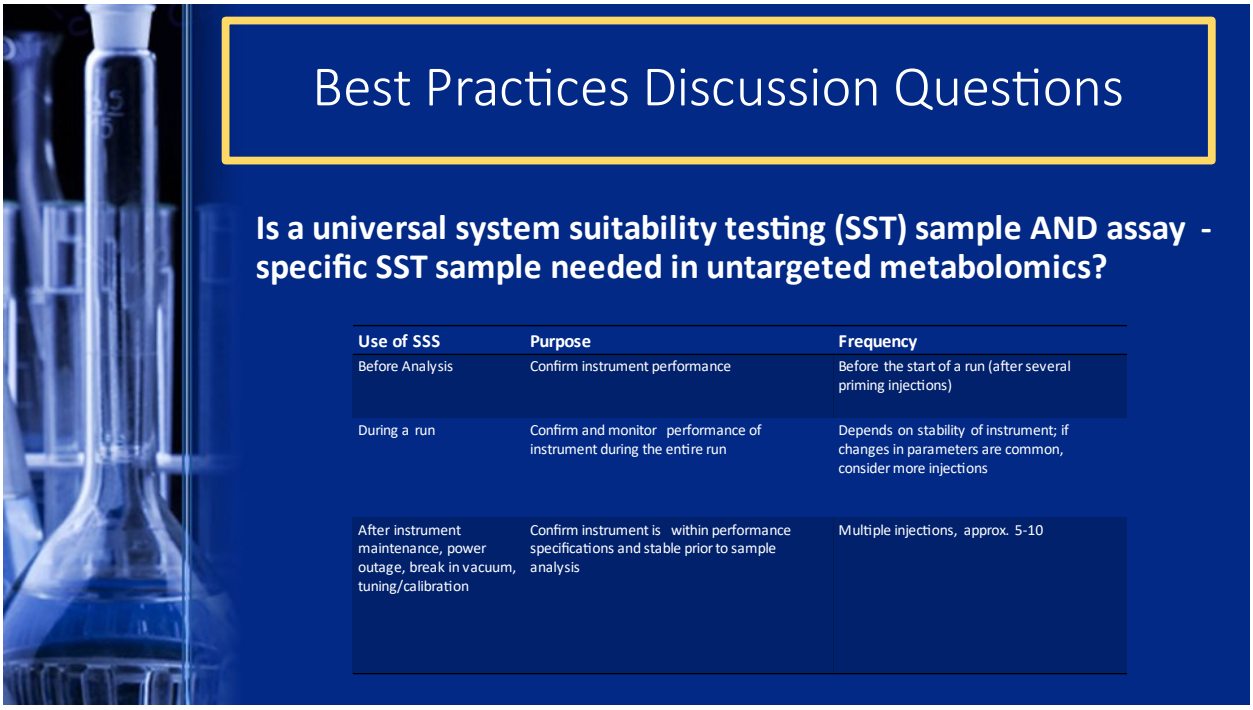
Achieving Harmonized Clinical Laboratory Testing: Current Best Practices & Future Approaches

Candace Ulmer, Don Chace, Tim Garrett

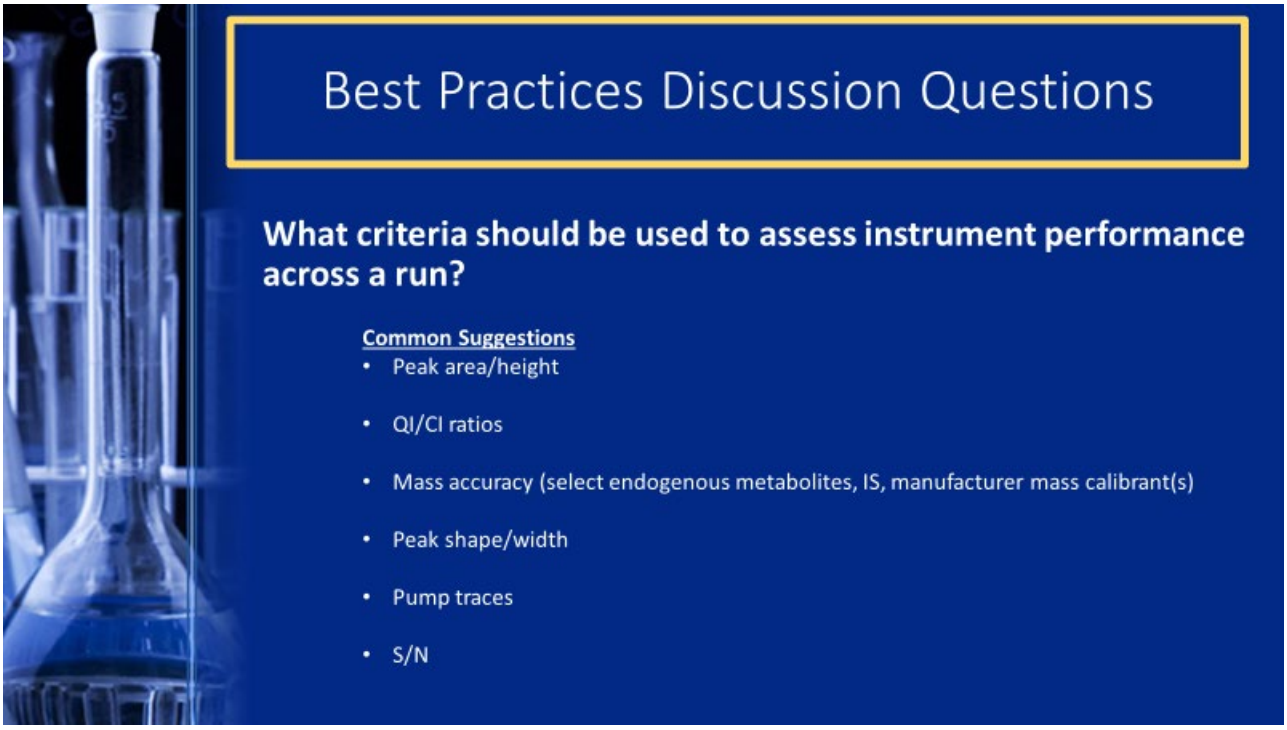
The above workshop was held during the Tuesday evening session and was done in person by Dr. Donald Chace and Dr. Timothy Garrett. The presentation was organized by Dr. Candice Z. Ulmer. There was still restricted travel because of Covid for many attendees. The presentation was also broadcast on Zoom. Thirty plus people attended the workshop.

Our focus and that of the attendees (based on their participation) was quality assurance in metabolomics studies specifically. Example slides are below.





We also had extensive discussion with regard to instrument performance across a run which is applicable to both untargeted (discovery) and targeted (practice).



We had active participation in discussing the need for “rules” and QA/QC in metabolomics, so studies are better compared across laboratories. Clearly, this is where the interest of the attendees was focused and will likely serve as a potential focus of next years workshop topic.