Mission statement

To promote the development and implementation of Patient-Based Real Time Quality Control (PBRTQC) systems in clinical laboratories.

Terms of reference

1. To provide awareness, education and training on PBRTQC systems in the clinical laboratory which include:

- Guidance on the principles of PBRTQC and its implementation
- Develop practical recommendation for verification procedures for laboratories adopting PBRTQC, based on sound statistical principles

2. Promote the implementation of PBRTQC by industry engagement and participation:

- Actively engage with instrument, middleware and laboratory information system providers to discuss IT requirements and algorithms for optimal implementation in routine clinical laboratories

3. Education and training will be provided through multiple channels to ensure widest reach, including:

- Guidance documents and publications
- Online presentations
- Workshops and seminars
- Consultation and advice to laboratory practitioner and industry

4. To collaborate with other IFCC Committees, Working Groups and professional bodies to achieve these aims.

Desired Outcomes

1. Improve the sensitivity of error detection and reduce false rejection rates due to the lack of commutability of commercially available QC materials

2. Reduce number of repeated testing and corrected results due to the constant real time control of analytical instrument performance

3. Improve cost-efficiency of QC procedures by reducing the use of conventional control materials
4. Use state of the art statistical algorithms based on risk assessment and analyte and method-specific rejection rules
5. Allow laboratory personnel to visually assess multiple instrument performance parameters on a single dashboard and ability to receive visual, audible, or electronic alerts when significant errors are detected