EFLM
EUROPEAN FEDERATION OF CLINICAL CHEMISTRY AND LABORATORY MEDICINE

European Commission
Joint Research Centre
IRMM
Institute for Reference Materials and Measurements

CIRME
Università degli Studi di Milano

1st EFLM Strategic Conference

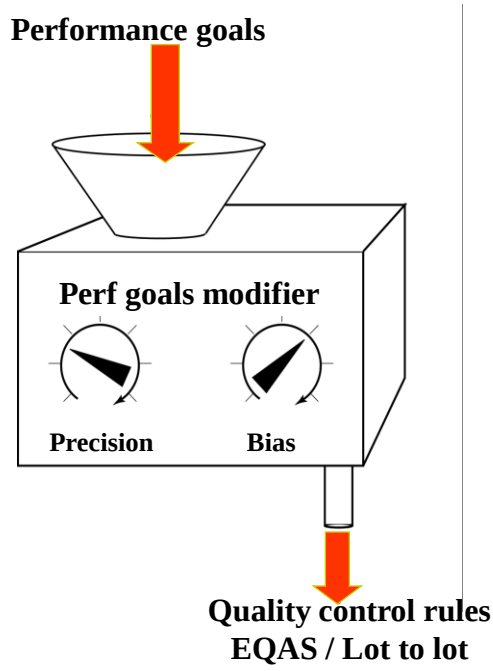
Defining analytical performance goals 15 years after the Stockholm Conference

8th CIRME International Scientific Meeting

Milan (IT)
24-25 November 2014

with the auspices of IFCC International Federation of Clinical Chemistry and Laboratory Medicine

The importance of Performance goals



Aim of the conference

The primary aim with this conference is to revisit the “Consensus Agreement” from the Stockholm Conference, investigating to what extent the advocated hierarchy is still valid or if it should be changed or expanded.

What do we want to achieve?

- To – on an overview level – propose models to set analytical performance goals
- To present these models in a new consensus document
- We should not – and we will not be able to
  - solve all problems
  - go into too much details on mathematics / statistics

Before the meeting

- Scientific Programme Committee
- Started to write a ”consensus document” in Istanbul in June during Worldlab
- Discussed a draft consensus document during the autumn
- Sent the draft document to all the lecturers before the meeting to help them address their talks
- Discussed what groups to be established after the meeting to take the ideas forward
- Discussed the nomenclature

Nomenclature – three words

1	2	3
Analytical	quality	goals
Measurement	performance	requirements
		specifications
		criteria
		standards

During the meeting

Day 1 – Background and the different models

- **Performance criteria based on clinical needs**
  - One analyte and one clinical situation
- **Performance criteria based on biological variation**
  - Minimize ”noise to signal” ratio
- **Performance criteria based on state of the art or laid down by regulation**

  What can be achieved by the current instruments

Day 2:

- **Performance criteria in different situations**

  Modulation of the ”overall/total” quality specifications depending on the laboratory use, e.g. Internal quality control / reference methods / EQAS
- **Performance criteria for extra-analytical phases in the total testing process**
  - same model as for analytical QS?
  - expand them by using quality indicators

Thus

- Overall performance criteria can be ”translated” into different ”laboratory” QS depending on laboratory issues as for example
  - Reference procedure measurements
  - Number of replicates
  - Series measurements
  - Internal quality control
  - External quality control

After the meeting

- Summarize what has happened during the meeting.
- Publish a series of papers from the Strategic conference in CCLM
- Publish the consensus document (you will get the draftdocument at the end of todays meeting)
- Establish groups with international participation that will take the ideas from the Strategic conference onwards and try to address problems that have not been addressed or solved during the conference

Remember that

- "All models are wrong, but some are useful."
- "The best models are not necessarily the most useful models".

So the question is:

- "How wrong is it?"
- "What can we do with it",(i.e.: "Is it useful?")

(George Box 1919-2013)

Important in the meeting

To listen and think

– and to talk and discuss

Let´s start