



australasian society of clinical immunology and allergy inc.

## **Guidelines – Uncertainty of Measurement (inter-batch/lot precision)**

### **Parameter of Uncertainty of Measurement to be assessed = expanded uncertainty**

- = Standard Deviation (SD) x 2 (rather than Coefficient of Variation [CV] x 2)
- Note:  $CV = (SD / \text{Mean}) \times 100\%$

### **Number of measurements**

- At least 60 (degrees of freedom), so at least n=61 measurements
- Across different lots/batches

### **What tests does this apply to?**

- any test where quantitative values are used to obtain the result, including qualitative assays where a quantitative value is used to generate a test result (eg. Anti-ENA ELISA)

### **Reference material**

- any external reference material (commercial or pooled patient samples) used for each assay
- value should be close to the cut off, clinical decision points OR mid range where curve is linear
- the kit controls should not be used instead of external reference material, as the assessment will be across different lots/batches

### **Reporting**

- At present, we would not advise including the expanded uncertainty parameter on the report

### **Limitations**

- We acknowledge the above expanded uncertainty parameter does not take into account bias or accuracy.

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ASCIA is the peak professional body of Clinical Immunologists and Allergists in Australia and New Zealand.