

State of the Art Immunosuppressant Methodologies and Clinical Considerations

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Scope of the lecture:

Monitoring immunosuppressant medications in patients that have undergone solid organ transplantation requires accurate and precise assays to effectively monitor target concentrations and make accurate dose adjustments to ensure patients are not over or under suppressed. Recently, the Immunosuppressant Drugs Scientific Committee of the International Association of Therapeutic Monitoring and Clinical Toxicology published a guidance document that describes the state-of-the art practices in TDMs and ISDs. This workshop will review the current on market methodologies as well as challenges and considerations that health care professionals need to be aware of when interpreting immunosuppressant levels. Lack of standardization will also be discussed with examples of how different assay performance can potentially reduce diagnostic errors through improved assay sigma metrics.

Learning objectives:

1. Describe the current state of the art methodologies to monitor ISDs.
2. Understand method differences and considerations health care professionals need to make when interpreting immunosuppressant results.
3. Determine the impact of improved accuracy and precision on the assays sigma metric.