



THE 58TH INTERNATIONAL
ASSOCIATION OF FORENSIC
TOXICOLOGISTS ANNUAL MEETING

Poster Gallery Presenter Guide

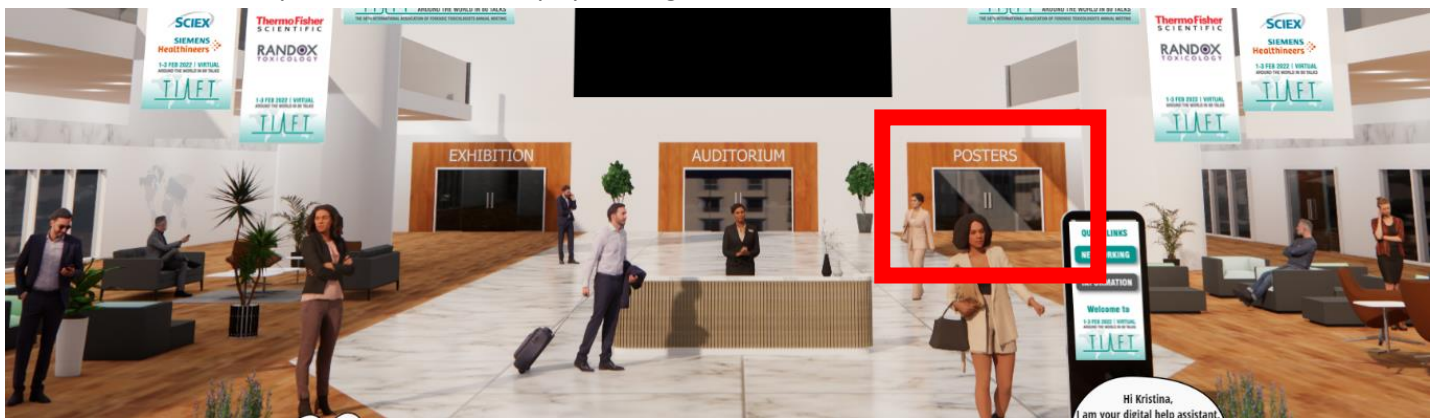
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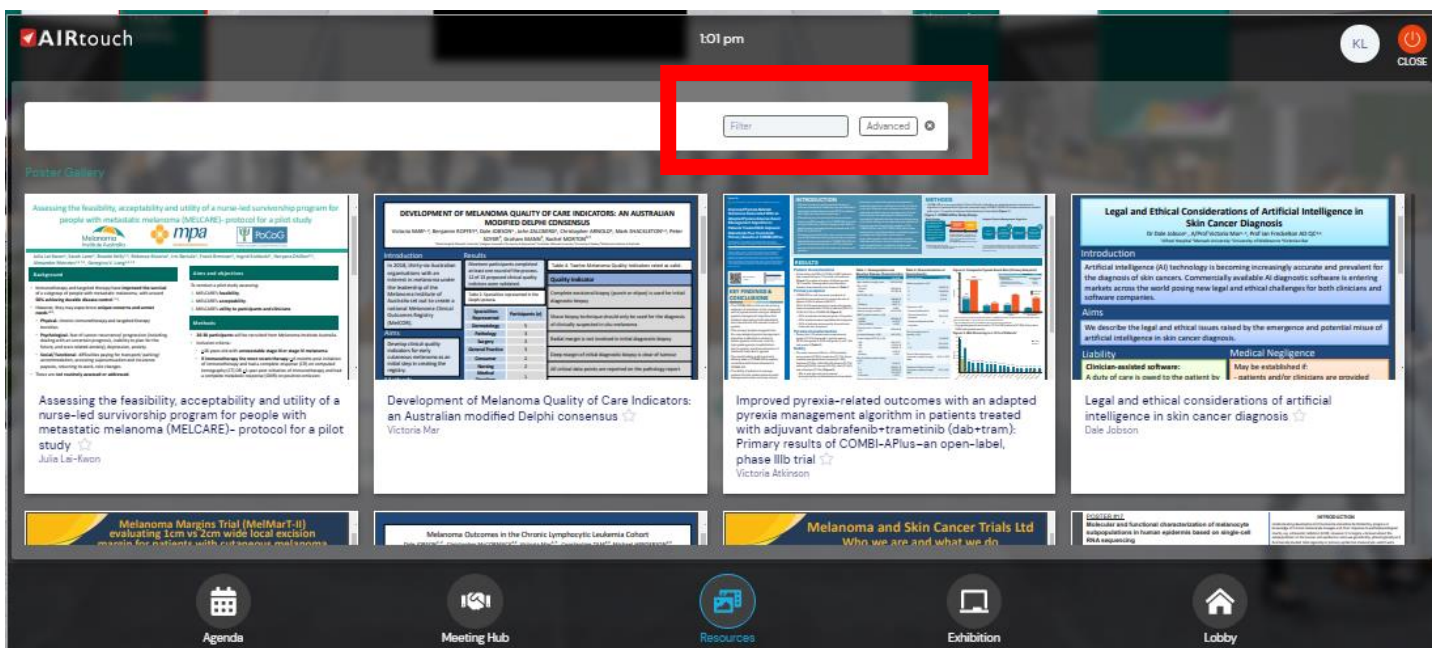
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INSTRUCTIONS

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A methodology to help in interpreting postmortem blood assays of insulins ☆

CB Charline Bottinelli
R&D Manager
LatLumex

This session ends in [time] No further events today

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A methodology to help in interpreting postmortem blood assays of insulins

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Introduction and Aims
The involvement of insulins (human insulin (HI) and its therapeutic analogues) in death is difficult to detect and even more challenging to prove in criminal cases. Both analysis and interpretation of results can be complex, especially on postmortem (PM) blood specimens. We propose a methodology to improve the reliability of PM assessment of insulin overdose. Its practical is illustrated through 3 real cases (see Table below).

Method: A review of the literature was performed [1] focusing on insulin determination in forensics, PM cases reporting insulin concentrations, and analytical and pre-analytical issues. Parameters liable to induce bias in interpretation were identified and integrated in a logic diagram.

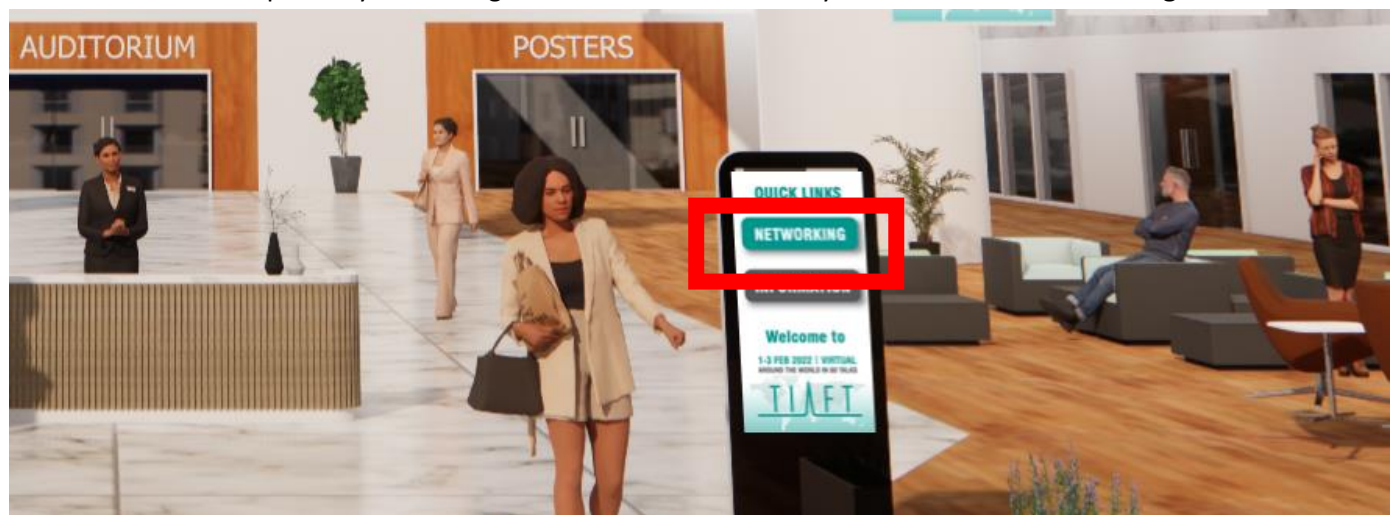
ANALYTIC CASE
Postmortem analysis of insulin in blood (plasma)

RESULTS & DISCUSSION:

- 1. Immunoinhibition: No formal identification
- 2. Mass spectrometry: unambiguous identification & selective quantification
- 3. Interpretation of PM blood insulin measurements requires to address some questions to avoid false-positive or -negative

Interpretation
Questions to be asked for...
... wrongly excluding overdose
... wrongly conclude to an overdose

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SUPPORT

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