Value of Lumee (O2 sensor) to assess foot perfusion before and after treatment for CLI

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Proctor/Education
- Abbott
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- Philips
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- PROFUSA
- Thermopeutics

OMNIA: Oxygen Monitoring Near Ischemic Area
Preliminary Results

Global PI`s:
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A total of 2 study sites are actively enrolling (CE marked):
- Prof. M. Brodmann, Med University of Graz / Austria
- Drs. T. Bisdas, A. Schwindt, St. Franziskus Hospital Münster / Germany
- Dr. M. Werner, Hanusch Hospital Vienna, Austria

20 subjects have been enrolled
• 20/20 were Rutherford Class 5 upon enrollment
• 18/20 received endovascular treatment
• 2/20 had bypass surgery after endo attempt

What information do we extract from Lumee Intra-Surgically?
Reperfusion Modulation

![Graph showing reperfusion modulation over time](image)
Intra-op Lumee shows predictive value for wound healing (Stratification by Wound Status)

- For each subject, average intra-op LOI change across 3 Lumees was computed.
- Subjects were stratified by wound healing status as improved, no change, or worsen (analysis only includes 13 subjects with 3m+ data).
- Distribution of average intra-op LOI change is shown in box-whisker plot.

Results show that larger increases in LOI were associated with wound healing outcomes compared with non-responding/worsening.

In Conclusion:

- We have a desperate need to establish OPG for on-table decision making that leads to optimal clinical outcomes.
- IOS are potential tools that show very promising preliminary data.