





Orthostatic Hypotension Risk Stratification

	No Hypoperfusion	Hypoperfusion
No OH @ 40	42 (56%)	5 (6.7%) (25% Undetected by BP)
OH @ 40	13 (17.3% Good cerebral autoregulation)	15 (20%) (75% Detected by BP)

N = 75 (Age 65-95)
Finucane, Fitzgibbon et al, 2016

Clinically so what?
OH Risk

- ### Conclusion
- 👍 NIRS a direct marker for hypoperfusion
 - 👍 Cheap, non-invasive, easy to apply, simple to measure
 - 👍 Enhancing understanding physiological mechanisms, symptoms and presentation
 - 👍 Enabling further personalisation of management
- Still more to do!!
- clinical evidence in syncope management
 - interpretation – complex process underlying methodology in syncope/ageing
- Conclusion*

Future Technology Directions

Wearable NIRS/GAIT

PortaLite (NIRS)
Portapress (BP)
Finger cuff (BP)
SHIMMER wireless sensors (gait)

Higher Spatial Resolution NIRS

Future Directions?

Courtesy of Ailbhe O'Reilly, MSc thesis, 2019
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Thank you

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Stáitseir Fadóimeachtaí na hÉireann um Chrua in Aois
The Irish Longitudinal Study on Ageing

SH

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