Intelligent diagnosis of patients with peripheral vascular disease

 Instruments for microcircular assessment

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Perimed AB
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- Roots at IMT, 1980’s
- Situated in Järfälla, Stockholm
- Development, production and marketing
- International market (>90 % export)
- R&D intense, 20% of the turnover
- Possibility to stay shorter or longer periods
Miniaturized laser Doppler

- Optical fibers are inefficient and require expensive lasers and electronics
- Small lasers, detectors and microprocessors enable system-on-chip solution in small probe (Ø~10 mm)
- Electronics, signal processing, programming and/or measurements
Evaluation of blood flow camera

- Perimed and IMT are developing the next generation microcircular blood flow cameras
- Magnitudes faster than previous generation (video rate compared to several minutes per image)
- Need of comparison
- In vivo measurements
Evaluation of blood flow camera
Thank you!

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