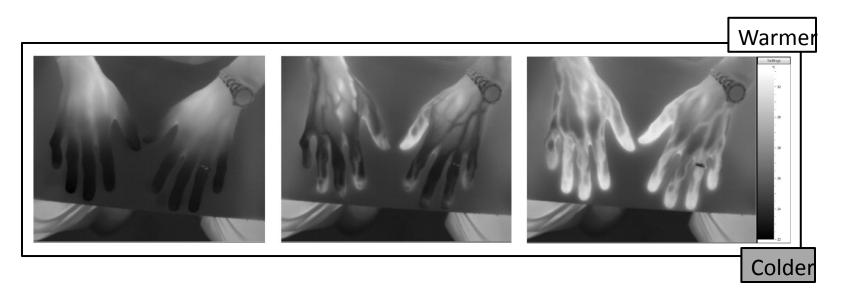


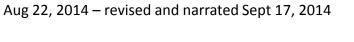


Sensor-based Evidence of Effects

Linking Resolution with Photobiomodulation



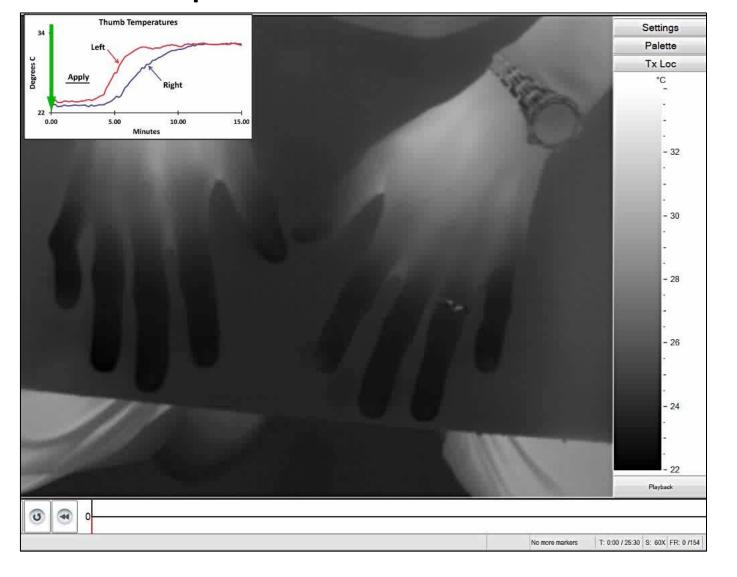
Allan Gardiner PhotoMed Technologies, Inc.







Time-compressed "movie" (15min = 6 sec)











A whole body experience in about a minute





Disclosure



- ☐ The following potential conflict of interest relationships are germane to my presentation.
- ☐ I am an engineer. I am the founder, funder, & CEO of PhotoMed Technologies, Inc. (2000)

Equipment from PhotoMed Technologies, Inc.

☐ The equipment is labeled for investigational use only. It is not FDA cleared.

Clinical illustrations

☐ PhotoMed Technologies built the proprietary data acquisition system that captured the information presented.





Study Management System™



PDS 400® VW Generator



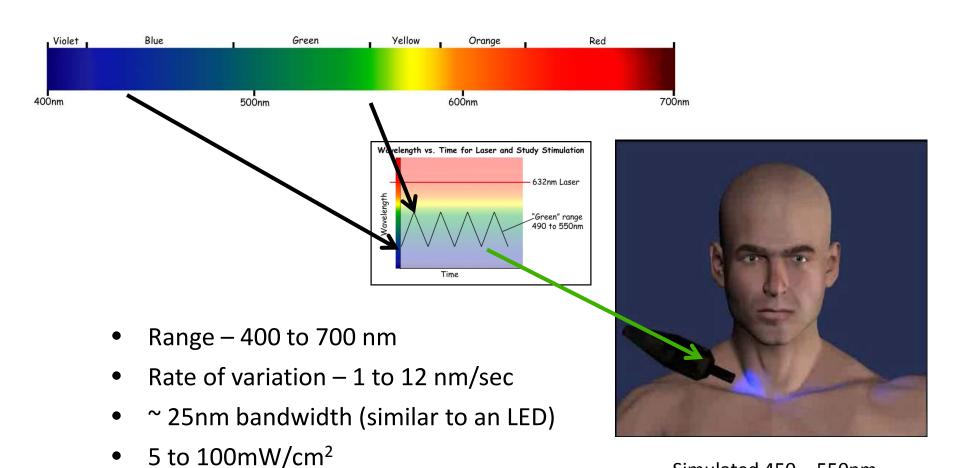
Copyright PhotoMed Technologies, Inc. 2014







Vary the wavelength during therapy



Simulated 450 - 550nm

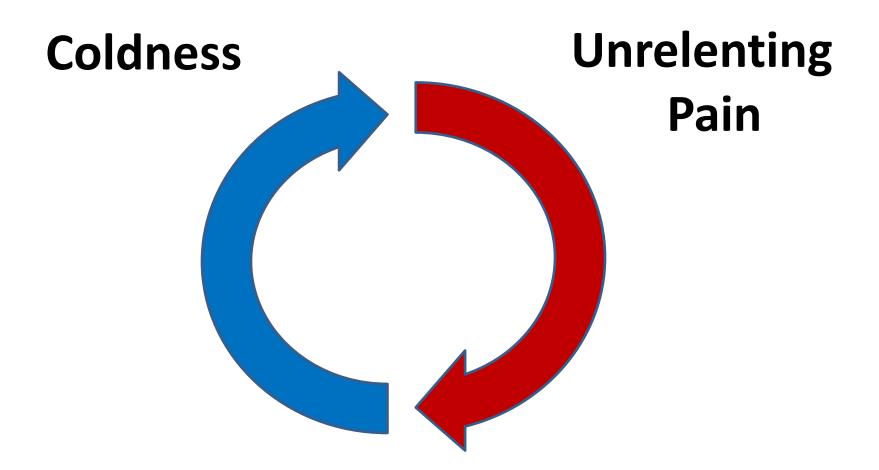






Linked coldness and pain





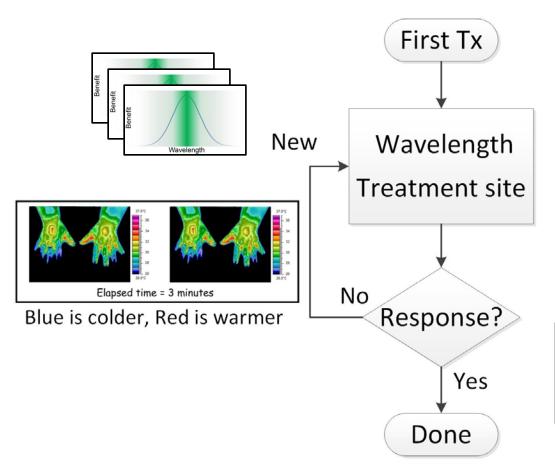
Called sympathetically mediated pain, CRPS, or RSD

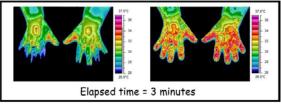




An iterative solution





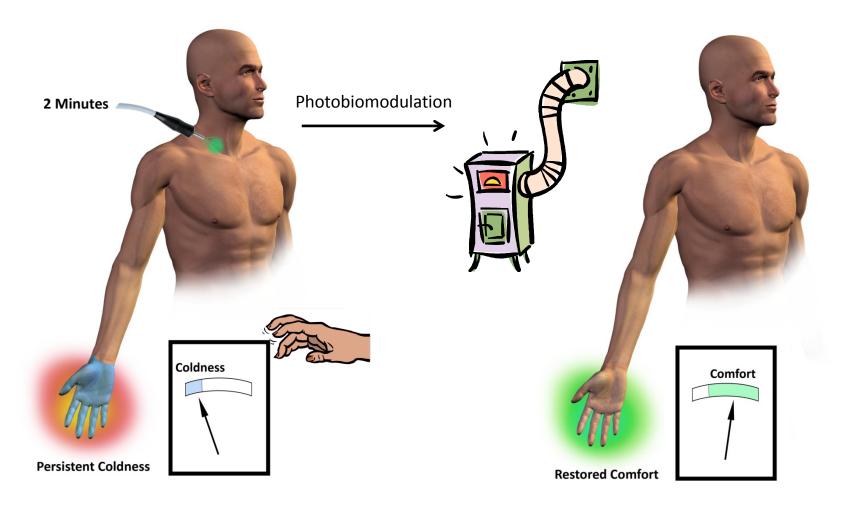






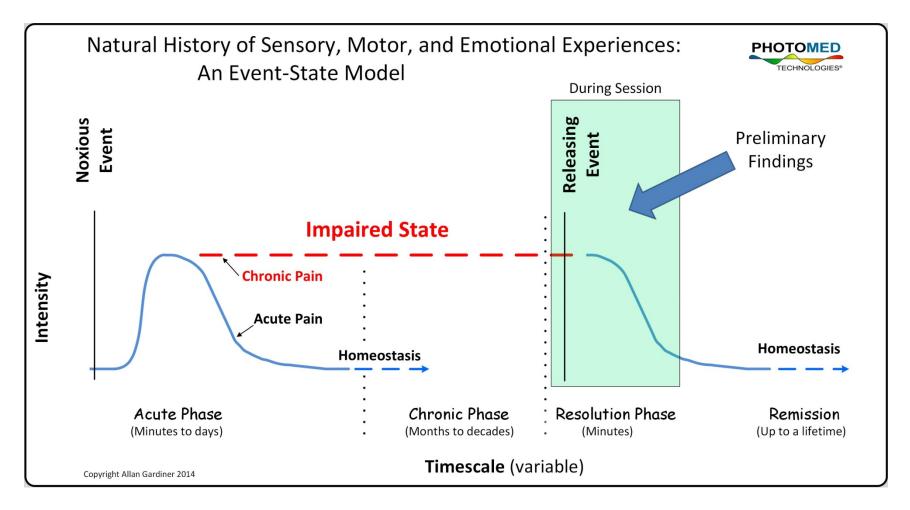


Thermostat Model







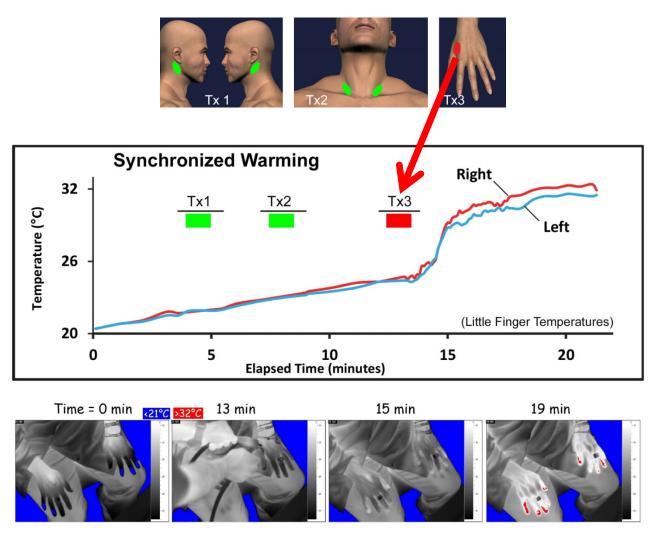


- Each treatment is a separate experiment.
- The healing process does <u>not</u> convey information about the treating parameters.





Synchronized Responses





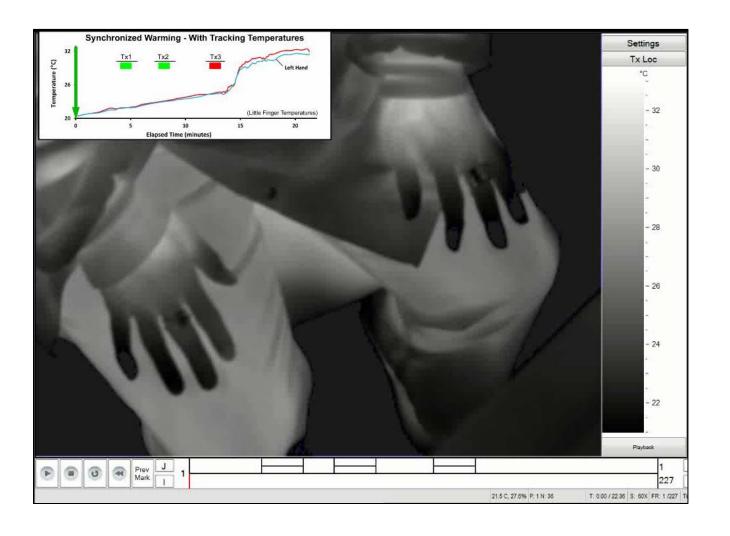






Feedback Enabled Process

(21min = 11sec)







Subjects



- Subjects had multiple sources of pain
 - On pain medications, pumps, stimulators
 - Musculoskeletal pain
 - Neuropathies
- Sympathetically mediated pain (SMP) (CRPS, RSD)
 - Coldness linked with unrelenting pain



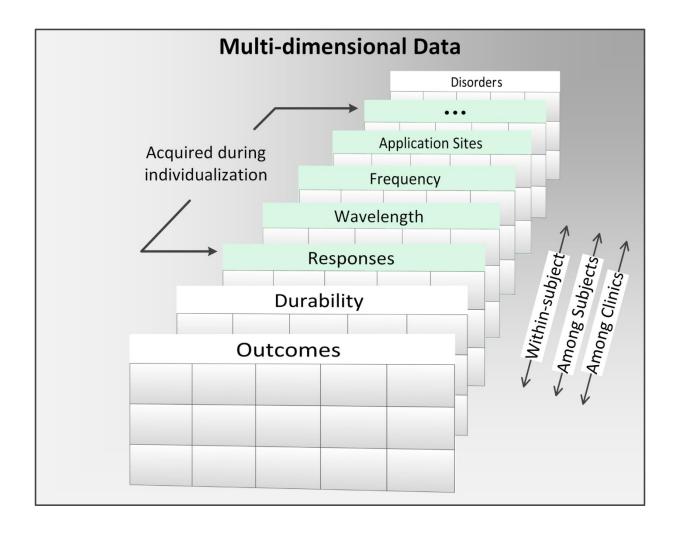
Explore association and independence of disorders





Multi-dimensional Data Set



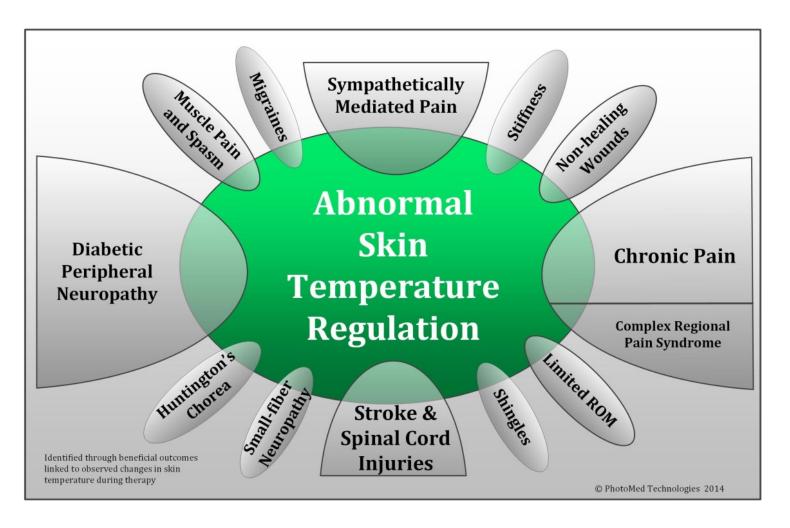






Associated Disorders











Thank you

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Reserve Slides

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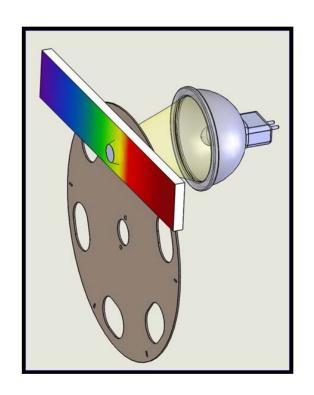


Wavelength selection



- Variable within 410 to 700nm
- 0 to 400Hz
- Dual fiber-optic cables





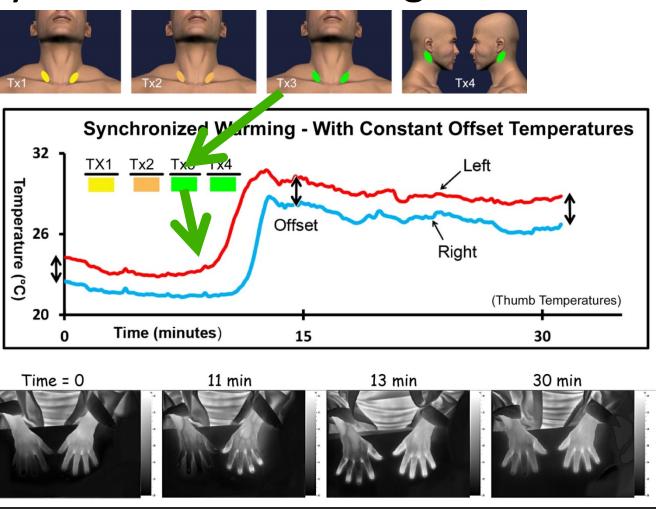
A motorized filter and chopper provided control of the wavelength and frequency to 1nm and 1Hz resolution.







Synchronized warming – Constant offset



50 YOF - Offset hand temperatures demonstrate the precision management of skin temperatures during perceived shift from coldness to comfort.



Synchronized warming

(19min = 11sec)

