



Motion Biosensors for Dermatology Studies

Measuring Motion, Delivering Insights

Motion Biosensors wearable devices provide objective nocturnal scratching event measurement to evaluate the impact of a particular therapy or medication pertaining to Atopic Dermatitis.

Philips New Standard in Scratching Measurement

- Reduce time associated with Video scoring and Patient Reported Outcomes (PRO) subjectivity with automated high speed 3D motion data capture.
- Leverage data collection, analysis and insights to monitor adherence, therapy impact on motion, and direction regarding next phase research/trial decisions.
- Discover more effective therapies for more people, through objective measures of scratching events.

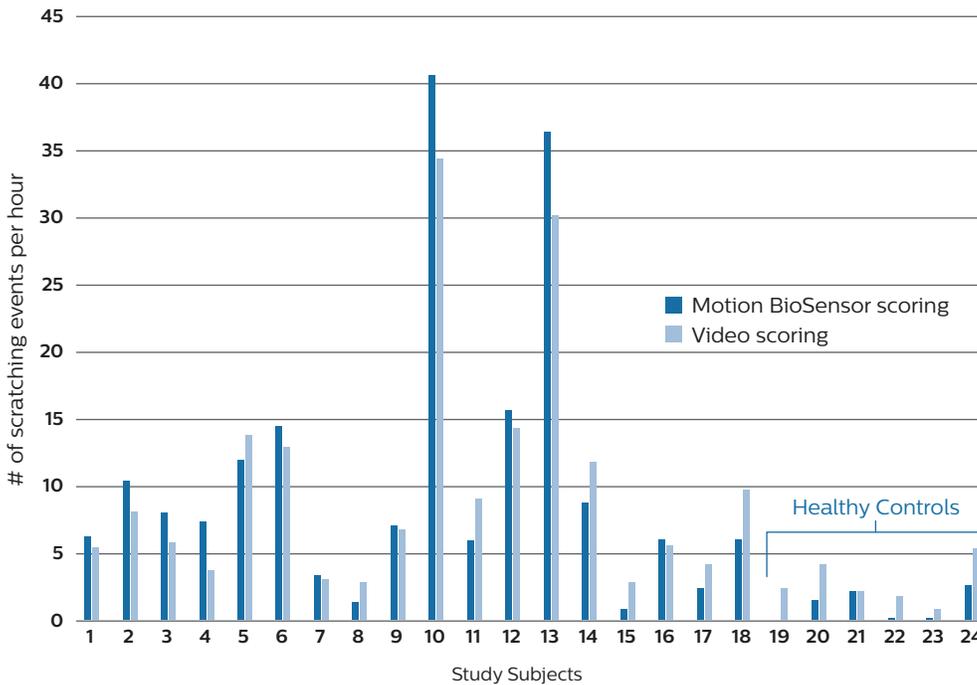
High resolution 3D motion capture discerns basic movement from scratching.





Atopic Dermatitis Study: 98% Correlation between Data captured through **Wearable Motion BioSensor** Technology and Video Analysis

Scratching measurement across 24 subjects: Motion BioSensor and Video scored



Correlation rate indicates that Motion BioSensor technology offers a minimally invasive and economic alternative to Visual Data Scoring.

Novel Endpoints:

- # of scratching event(s) per subject
- # of scratching event(s) per hour
- Duration of each scratching event
- Time of each event

More than a Device

- Advanced proprietary algorithms enable rapid data processing across sleep and wake periods – for multiple clinically relevant data endpoints. (i.e. # of scratching events, duration)
- Statistical data analysis and consultation services provide direction on protocol development and guidance regarding research/trial advancement.
- Actionable intelligence enhances overall research/trial preparation and execution efficiency.

- Philips advanced algorithm enhances efficiency with automated capture of customized data endpoints.

- Philips Motion Biosensor technology may be applicable to other areas of Dermatology, where motion provides relevant clinical insights.

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