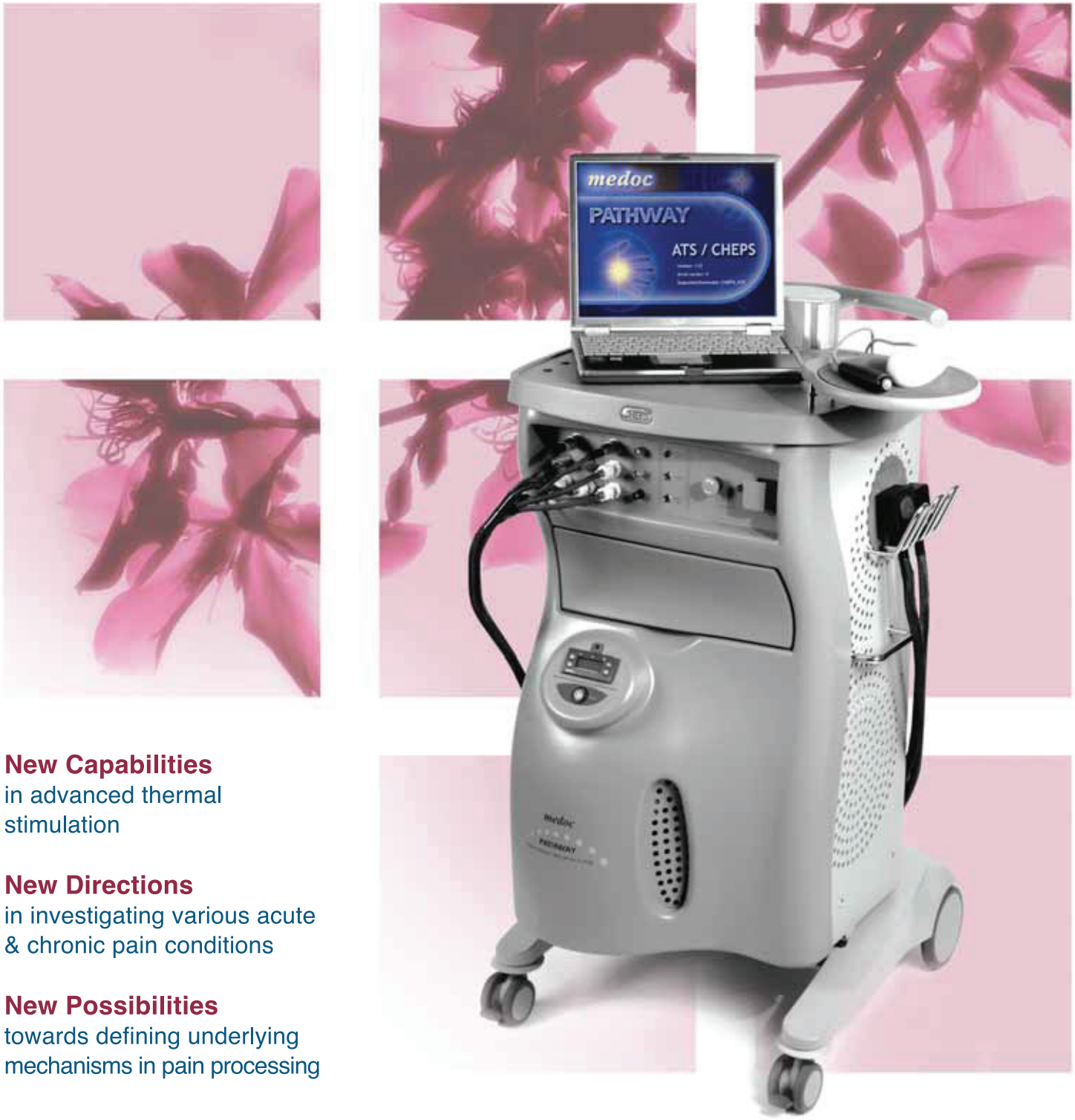
PATHWAY / *Pain & Sensory Evaluation System*



New Capabilities
in advanced thermal stimulation

New Directions
in investigating various acute & chronic pain conditions

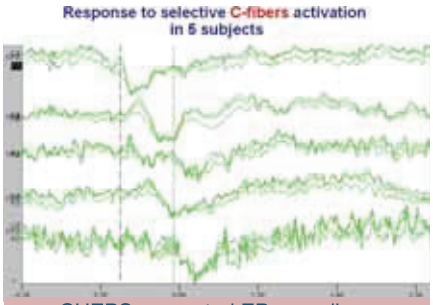
New Possibilities
towards defining underlying mechanisms in pain processing

...towards objective evaluation of small nerve-fiber function
A Configurable and Expandable Advanced Thermal Stimulator for today's & tomorrow's research protocols, pharmacologic investigations and clinical applications.

Medoc
advanced medical systems

PATHWAY / *Pain & Sensory Evaluation System*

"An advanced thermal stimulator offering new possibilities in the investigation of human nociceptive pathways"

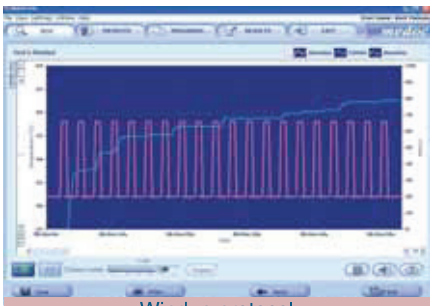


CHEPS generated EP recordings

Contact-Heat Evoked Potential Stimulation (CHEPS)

PATHWAY enables pain and non-painful evoked potential recording of both A-delta & C fiber function: allowing for the first time, selective activation & objective identification of nerve fiber activity through EEG recording. Extremely fast heating (70℃ / sec) and temperature sampling (200 times / sec) delivers thermal stimuli with precise temperature and pattern control.


Fast base-to-peak stimuli


Windup protocol

Windup

Superior temperature control capabilities for rapid and programmable delivery of sensory stimuli at a windup frequency (<0.33 Hz) in producing temporal pain summation. Windup is an important modality for functional evaluation of central pain processing mechanisms related to central sensitization.


Ramp & Hold

Advanced Thermal Stimulator (ATS)

ATS enables QST (Quantitative Sensory Testing) via delivery of painful and non-painful thermal stimuli. ATS thermal stimulation can range from - 10℃ to 54℃, thus opening new research horizons for deep cold pain & heat pain studies.

fMRI

PATHWAY is available in an fMRI conditional* configuration in both ATS and CHEPS models. Rapid CHEPS stimulation can provide synchronized brain image and fMRI compatible EEG recording of A-delta & C-fiber electrophysiology.

*See detailed information in the PATHWAY Operation Manual

Pharmaceutical Clinical Trials

PATHWAY can potentially be used as a new 'surrogate marker' assisting in prioritization of new & existing compounds, reduction of statistical sample, dosage definitions - all resulting in shortening time to market.

CE 0473

See instructions for use

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