



# Medtronic

## BIOFEEDBACK

### For Pelvic Floor Evaluation

The Medtronic Biofeedback Application is designed to be used by physicians and biofeedback therapists in cases of incontinence, constipation, voiding disorders and pelvic pain. The system uses EMG or pressure sensors to display and record a patient's pelvic floor muscle activity during sequences of squeezing and relaxing maneuvers.

#### **Patient-oriented for best results**

The Medtronic Biofeedback Application provides a full screen, full color graphic display with a track that is easy for patients to follow. This enables them to quickly grasp the goals for each session so they can devote their full attention to the guidance of the therapist.

#### **Fully configurable for individual needs**

The degree of difficulty for the squeezing and relaxing maneuvers and even the sounds and screen graphics are defined ahead of time in sequences designed by the therapist. The system can thus be tailored for procedures in pediatric, adult or elderly patients. If an initial sequence of maneuvers proves too difficult or easy for a particular patient, simply switch to an easier or more challenging sequence without disrupting the session.



When Knowing How is Half the Cure

# BIOFEEDBACK



## The Medtronic Biofeedback Application is a key component in evaluating pelvic floor dysfunction

### Full-screen display with clear, instantaneous, graphic feedback

During Medtronic Biofeedback training evaluation sessions the entire screen is used to display a scrolling track. This track clearly indicates target levels, durations and response times, for squeezing and relaxing maneuvers. The Medtronic Biofeedback Application uses two channels, a primary channel and a reference channel. The primary channel is used for squeeze and relax exercises while the reference channel is used to monitor another muscle group that should remain relaxed throughout the exercises. This enables the therapist to help the patient isolate the correct muscles when working with the system.



### User-defined graphics

In designing procedures the therapist chooses the actual images that are used to construct the biofeedback tracks. A set of images for adult and pediatric procedures is provided with the application, but therapists can design

their own, share them with other laboratories, or download them from the Medtronic Functional Diagnostics website at [www.mfd.medtronic.com](http://www.mfd.medtronic.com).

### Flexible track programming for progress monitoring

Track configuration is so straightforward that a number of sequences at various levels of difficulty can easily be made in order to precisely define individual patient targets and evaluate their performance in relation to these.

### Immediate review of patient progress

Patient performance is recorded continuously allowing the therapist to review the results with the patient immediately after each session. On review the target track is overlaid with the EMG or pressure levels the patient actually achieved. Percent fulfillment calculations enable precise tracking of patient progress from session to session.



## System Components

Main hardware system:	Polygraf ID
Minimum computer requirements:	IBM compatible PC, 350 MHz Pentium II, 128 MB RAM, 4 GB HD, USB port, 256 KB Level 2 cache, CD ROM, Windows® 98 Second Edition (Internet Explorer 5.0/5.5), SoundBlaster or 100% compatible sound card, display resolution 1024x768, 24 bit true color
Software:	Polygram 98 Biofeedback Application
Sensors:	Water perfused or solid state pressure sensors, surface/sponge/plug EMG sensors

Data is subject to change without notice.



**Medtronic**  
When Life Depends on Medical Technology

International:  
Medtronic Functional Diagnostics A/S  
Tonsbakken 16-18  
DK-2740 Skovlunde,  
Denmark  
Phone +45 44 57 90 00  
Fax +45 44 57 90 10  
E-mail: [gastro.mfd@medtronic.com](mailto:gastro.mfd@medtronic.com)  
[www.mfd.medtronic.com](http://www.mfd.medtronic.com)

USA:  
Medtronic Functional Diagnostics  
4000 Lexington Ave. N MS X180  
Shoreview, MN 55126-9866  
Phone (763) 514 9700  
Fax (763) 514 9745  
Toll-free (800) 227 3191  
[www.mfd.medtronic.com](http://www.mfd.medtronic.com)

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