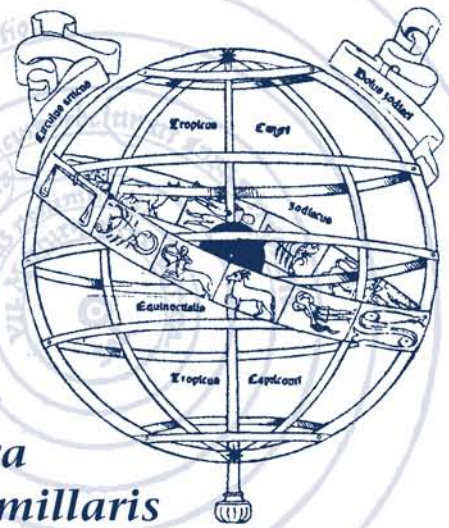


diagnosticline



# KOPERNIKUS



„Sphaera  
Armilaris  
Copernicana“

Within living memory the enuresis is one of the widespread problems in the childhood. Even the Papyrus Ebers (Egypt, 1550 before Christ) judges this micturition disorder as a treatment needy symptom.



tic Medizintechnik

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## Kopernikus – Uroflowmetry and Electromyography

A functional micturition disorder can be the cause for the enuresis in childhood. The Uroflowmetry with the simultaneous electromyography of the pelvic floor muscles supplies decisive indication of a dyscoordinated miction.

Concerning the origin of functional micturition disorder in childhood there are different theories:

- a genetic pre-disposition, which results in a delayed mature of the detrusor-sphincter-coordination
- separate disorder of innervation of bladder and rectum
- micturition disorder because of chronical obstipation
- acquired psychological disfunction because of a premature neatness education
- disfunction of bladder caused by a lack of detrusor stability or caused by relapsing infection of urinary tract

touchscreen-  
surface



### Basic diagnostics

As urological basic diagnostics the Uroflowmetry is part of the most realized inspections due to the simple use and the non-invasiveness. In particular it is suitable for the first screening and for the continual supervision of micturition disorders.

Especially with children the non-invasiveness of the combined Uroflowmetry and Electromyography is of exceptional importance.

Children often can not define their complaints. In that case the wide and easy operation of the Uroflowmetry and Elektromyography enables the determination of functional micturition disorders.

### Evidence and validity of results of measurement

The arrangement of the examination room as well as the children's willingness to cooperate are important requirements for the evidence and validity of the measurement results.



EMG-electrodes

UROFLOWMETRY + EMG



Uroflowmetry

# Kopernikus<sup>System</sup>



◀ high sensitive scale



◀ colourful micturition-chair



◀ online-animation appropriate for children

Which demands do you put on a UroFlow-EMG-measurement device?

"Kopernikus" offers you:

- maximum of user-friendliness
- intuitive graphical user interface (GUI), windows based
- touchscreen
- conclusive consequence of operation steps
- Data acquisition by means of highly sensitive scale and EMG-amplifier
- Determination of all relevant flow-parameters according to ICS-standards, additional electromyographical datas
- Nomogram according to Siroky et al. (optional)
- animation of Flow- and EMG appropriate for children
- external screen for optimum display of animation (optional)
- 2nd EMG-channel for the recording of abdominal wall contractions (optional)
- storage and administration of measurements and results
- immediate highspeed print-out of the flow-parameters, including doctors surgery or clinic logo
- Certificate, CE-marked in accordance with the MPG and European directive 93/42/EWG, IEC 601-1, EN 60601-1
- Kopernikus is a German development and production





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**tic Medizintechnik** GmbH & Co. KG

Endelner Feld 9

D-46286 Dorsten (Germany)

Tel.: +49 (0) 2369 / 2085-0

Fax: +49 (0) 2369 / 2085-10

E-Mail: [info@tic-med.de](mailto:info@tic-med.de)

Homepage: [www.tic-med.de](http://www.tic-med.de)

[www.apoplex.net](http://www.apoplex.net)

**Further devices of our diagnosticline**

**UroPort** The digital Uroflowmetry device

**Newton** The compact Urodynamics

**UroScreen** The network capable Urodynamics

**Cassini** The combined Anal manometry and EMG-measurement device

