

# Exsys Case Study

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## Urodynamic Diagnosis

*University of Vienna*



Often several diagnoses are possible and the knowledge automation system lists them in order of probability. For this system, the knowledge base was developed by experts in this field who defined the rules. They added notes and references to every rule to provide an explanation of how the knowledge automation system arrived at a given conclusion.

The system analyses five factors obtained at urodynamic investigation:

- ◆ Unstable bladder - First desire to void
- ◆ Maximum urethral resting pressure
- ◆ Score of a questionnaire
- ◆ Urethral closure pressure
- ◆ Standing clinical stress test

It then rates five possible urodynamic diagnosis in order of probability which include:

- ◆ Genuine stress incontinence
- ◆ Motor urge incontinence
- ◆ Sensory urge
- ◆ Mixed incontinence
- ◆ No incontinence demonstrable