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## Media Release

### **U-Test<sup>®</sup>: innovation for improved diagnosis of urinary tract infections**

SWISS MEDICAL SOLUTION AG (SMS) has successfully CE certified its new product U-Test<sup>®</sup>, which combines the well established U-Lab<sup>®</sup> test card with a specialized fleece pad, allowing to apply the test in baby-diapers or incontinence materials of all sizes.

The design of U-Test<sup>®</sup> significantly simplifies the procedure of urine sampling and early diagnosis of urinary tract infection (UTI) in patients, for whom the collection of a mid-stream urine sample is otherwise too difficult and time consuming. Especially infants with unspecific fever or elderly incontinent women, who are often suffering from UTI, can take advantage of this innovative product. U-Test<sup>®</sup> is suitable to be used by healthcare professionals as well as by lay people.

#### **About U-Test<sup>®</sup>**

The collection of a urine sample in non-potty trained children and incontinent patients is so far a very cumbersome procedure for all involved parties. The currently established methods are time consuming, very inconvenient, may even lead to skin irritations and are prone to contamination, thereby leading to false test results. U-Test<sup>®</sup> on the contrary, solves the problem in urine sampling by the integrated fleece pad. It takes up urine immediately, leads an appropriate volume directly to the test card, thereby automatically starting the chemical reaction for the detection of nitrites and leucocytes. Since the test card is also automatically sealed after sufficient urine entered, contaminations and therefore false results may be prevented.

The detection of the parameters nitrite and leucocytes is in accordance with international guidelines for the diagnosis of UTI. A third test field serves as validity indicator, thus confirming the correct accomplishment of the test. The reading of the test results is unambiguous, due to clearly visible and distinguishable colour reactions. U-Test<sup>®</sup> was evaluated in a multi-centre clinical study proving its high safety, outstanding functionality and diagnostic performance.

The need for an innovative urine sampling device for the described patient groups is scientifically described and SMS took the idea even a valuable step further by the integration of the test system itself, thus providing an all-in-one, easy-to-use and very convenient diagnostic tool. The scientifically approved integrated U-Lab<sup>®</sup> test system helps the physician by the safe exclusion of a UTI to avoid unnecessary urine cultures, thus reducing costs for diagnostic purposes and will prompt the appropriate treatment in case of a positive test result.

#### **About SWISS MEDICAL SOLUTION AG**

SWISS MEDICAL SOLUTION AG (SMS) is an innovative company focusing on the development, manufacturing and distribution of easy-to-use home diagnostic tests to detect UTI.

SMS has been founded under Swiss law and is located near Lucerne (Central Switzerland). It owns intellectual property rights to its U-Lab<sup>®</sup> technology platform. The first product, U-Lab<sup>®</sup>, is already distributed in an increasing number of markets. The focus of SMS for its novel product U-Test<sup>®</sup> is on the development of the markets by setting up a distribution network.

### **About Urinary Tract Infection**

Generally, UTI causes an estimated 150 million cases worldwide per year, which corresponds for example in the US to 3,5 billions USD in costs per year.

A UTI is occurring when micro organisms, usually bacteria from the digestive tract, penetrate the urinary tract through the opening of the urethra and begin to multiply. Most infections arise from one type of bacteria, *Escherichia coli*, normally living in the colon. The urinary tract consists of the kidneys, the ureter, the bladder and the urethra. Each part may be affected. In case a UTI is left untreated, a permanent damage may occur to the bladder and kidneys. Antibiotic treatment is often required.

UTI is a common condition in children and approximately 1 in 10 girls and 1 in 30 boys will have a UTI by the age of 16 years. 14% of children presenting with unexplained fever were found to suffer from UTI. Looking at elder people it is known that they are also highly susceptible to UTI with reported prevalence of up to 40 % of men and 50 % of women, especially if they are in need of care.

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