Diaper-Embedded Transponder for Monitoring Urinary Tract Infection

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Technology description

Background

Urinary tract infections account for more than 8.1 million visits to physicians' offices per year. If not identified and treated early, urinary tract infections can be a major source of additional disease. To identify urinary tract infections, urine collection and lab urinalysis are two methods currently used; however, there is no existing method that uses a diaper-embedded sensor for patients and infants.

Technology Summary

Researchers at Purdue University have developed a diaper-embedded transponder for early detection/ screening of urinary tract infections. Once activated by urine, the transponder measures and transmits the information via a wireless link to the caregiver. The transponder is autonomous, self-powered, and it provides accurate and timely information.

Application area

Hospitals
Nursing homes
Nurseries

Advantages

Diaper embedded
Autonomous and self-powered
Provides accurate and timely information

Institution

Purdue University

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