

## Taiwan univ pioneers wireless patient monitoring

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### Wireless physiological monitoring system promises efficiency in dialysis



**Singapore:** A wireless physiological monitoring system designed by the Department of Biomedical Engineering (BME) of National Cheng Kung University (NCKU), southern Taiwan, has proved to increase medical efficiency and safety for dialysis patients.

"Wireless physiological monitoring system for hemodialysis" was developed by NCKU BME Professor Tain-Song Chen. It helps dialysis centers monitor the physiological status of dialysis patients.

Besides providing warning signal during emergency in the hemodialysis process, the system also improves the safety level of the dialysis process because it allows one nurse to simultaneously monitor physiological parameters of 50 patients, thus helping to solve the problem of shortage of nursing staff, according to Dr Chen.

He explained that in the current dialysis process at dialysis centers, nurses and medical staff have to measure and record patients' blood pressure every 30 minutes in order to monitor their physiological status.

Usually, quite a number of dialysis patients would be receiving dialysis treatment at the same time. Traditional steps to measure blood pressure of dialysis patients include tying the cuff, inflating it, deflating it and recording blood pressure, a process that usually takes two to three minutes.