

# 25<sup>TH</sup> WORLD NURSING AND NURSE PRACTITIONER CONFERENCE

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## The use of ultrasound in day care of children and adults requiring medical care

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Progress in medical technology has benefited many child who cannot live without medical support, but there are not so many place to spent time by themselves and so we opened a day care and after-school program for children and adults who require medical support. In the context of this program Ultrasonography (US) is being used to estimate these patients for a range of conditions, such as pulmonary congestion and edema, remains of a meal on epiglottic vallecula, measuring the volume of urine. US is used to assess respiratory condition, swallowing and measuring the amount of urine in the bladder by using SonoSite iViz (Fuji Film) and Vscan Dual Probe (GE Healthcare). The use of US is effective for evaluating pulmonary movement. Some patients have a firm thorax with poor movement together with an equally poor pulmonary movement, and we can evaluate the difference between right and left by the use of US. We can easily recognize pulmonary congestion and edema from a tissue like image and characteristic B line. We have provided pulmonary physical therapy, suction and positioning to improve their condition. This treatment has reduced respiratory rate and improved percutaneous oxygen saturation, however we cannot determine the effect of this treatment by US alone. On checking the pyriform sinusitis and epiglottic vallecula, abnormalities present as a bright mass. Improving the method of cleaning the mouth and teeth after each meal reduced the fever that such patients were experiencing. Measuring the volume of urine by means of US was used to determine the need to use a catheter. US was effective for understanding various conditions such as pulmonary congestion and edema, remains of a meal on epiglottic vallecula, measuring the volume of urine, but was not sufficiently sensitive to measure the effect of improvement in short-term care.

### Biography

Tamami N Shimada has worked for more than 20 years as a Visiting Nurse and in 2011 completed a Master of Nurse Practitioner course from Japan. In addition, she manages a visiting nurse station and day care for children and adults requiring intensive medical support. She also a Director of the Japanese Organization of Nurse Practitioner Faculties (JONPF), Director of the Kawasaki City Nursing Association and Ambassador of TOUCH (Treat Observe and Understand Children with special Hope).

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