VIRTUAL REALITY-BASED APPARATUS FOR SELF-DIRECTED PRACTICE OF MEDICATION NURSING

ABSTRACT

Provided is a virtual reality-based apparatus for self-directed practice of medication nursing, the apparatus including: a computer (10) in which a virtual reality medication nursing program (15) is installed; a virtual reality device (11) configured to be worn on a learner's face, and display data output by the virtual reality medication nursing program (15) to the learner; and a Leap Motion (12) provided in front of the virtual reality device (11), and configured to detect the learner's hand movements through an infrared camera, wherein the virtual reality medication nursing program (15) includes: a storage part (16) in which a virtual practice interface (30) and a plurality of correct answers for a medication nursing process are stored; a reception part (17) configured to receive hand movement data detected by the Leap Motion (12); a data processing part (18) configured to process the hand movement data received by the reception part (17); an output part (19) configured to output hand movement processed data resulting from processing by the data processing part (18) to a virtual practice screen; a score calculation part (20) configured to analyze data input by the learner for a question presented on the virtual practice screen, and calculate the learner's score; and a transmission part (21) configured to transmit output data output by the output part (19) and score data of the learner calculated by the score calculation part (20) to the virtual reality device (11).

FIG. 1