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ABSTRACT

Background

Tuberculosis is an infectious disease which draws the world attention, including Indonesia. Treatment for tuberculosis requires 6 months or more according to the stage of the patients. This long period of treatment affects the patient medication adherence. Patient's knowledge and perception about this disease affect the treatment adherence.

Methods

The patients involved in this research are adult tuberculosis outpatients receiving anti-tuberculosis drugs category one and two. The education materials are in Ngoko Javanese language which was the language of the people lives around the Regional Public Hospital at Bangil.

This quasi-experimental design has three groups of a tuberculosis patient, i.e the control group, the treatment group (I) with a pictogram-based pocketbook, and the treatment group (II) with a video presentation. There are three domains and twelve questions of knowledge. Patient's perception has seven domains, a three-Likert Scale questions. Their adherence assessed with calculating their remaining pills.

Results

The results of the knowledge from each domain showed a significant difference between control group and treatment group I, and the control group and treatment group II. The increase of knowledge after 1 month of the interventions was preserved consistently in the treatment groups. Thus, the knowledge increase achieved was in accordance with Bloom's theory, on the level of knowing and understanding. The patients' perception was changed into positive perception through CBIA education, either using a pictogram-based pocketbook or video-based intervention, involving domain timeline, illness coherence, and emotional representations (p -value < 0.05). The adherence level from both groups, control group and both treatment group I, and treatment group II showed significant difference with p -value < 0.05 . Therefore, the expected accomplishment from the respondents based on Bloom's theory in the level of applying was achieved.

Conclusions

CBIA education, with a pictogram-based pocketbook or video-based intervention effective to improve tuberculosis patient's knowledge, perception (timeline, illness coherence, emotional representations) and adherence.

Keyword: pictogram, video, tuberculosis, knowledge, perception, adherence