

## Validity and reliability of the Indonesian version of SF-36 quality of life questionnaire on patients with permanent pacemakers

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### Abstrak

**Aim:** to construct and validate Indonesian version of SF-36.

**Methods:** this is a cross-sectional study, which consist of 2 stages process: 1) language and cultural adaption; and 2) validity and reliability evaluation. We evaluated 32 pacemaker patients during language and cultural adaptation stage and 20 pacemaker patients during validity and reliability evaluation stages from September 2014 to August 2015. We followed cross-cultural adaptation guideline to produce Indonesian version of the questionnaire. The final translated questionnaire was checked by assessing the correlation of SF-36 and 6-minutes walking test (6MWT) and NT pro-BNP result.

**Results:** Indonesian version of SF-36 showed positive correlation between 6MWT result and physical functioning (PF) ( $r=0.363$ ;  $p=0.001$ ) and negative correlation between NT pro-BNP score with general health (GH) ( $r=-0.269$ ;  $p=0.020$ ) and mental health (MH) ( $r=-0.271$ ;  $p=0.019$ ). The internal consistency of Indonesian version of SF-36 questionnaire, which measured by Cronbachs alpha, was good with value of  $>0.70$ . Repeatability between day 1 and day 8 was good, with strong positive correlation ( $r=0.626$ ;  $p=0.003$ ).

**Conclusion:** the Indonesian version of SF-36 could be used as a general questionnaire to assess quality of life in patients with permanent pacemaker.