

## Validation of modified COPCORD questionnaire Indonesian version as screening tool for joint pain and musculoskeletal diseases

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20497002&lokasi=lokal>

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### Abstrak

#### <b>ABSTRAK</b><br>

Background WHO ILAR COPCORD Program is a program that aimed to obtain data on joints pain and musculoskeletal diseases in developing countries, one aspect which has not been studied is the ability of COPCORD questionnaire as a screening tool which standardized for screening joint pain and musculoskeletal diseases. Objective of this study is to assess the validity of modified COPCORD questionnaire Indonesian version in screening joint pain and musculoskeletal disease compared to examination by rheumatologists. Methods The initial phase of the research is determining essential points, translation to Indonesian, and back translation. The second stage is testing questionnaires in communities which 100 respondents involved. Dependent variable is the diagnosis of rheumatic diseases and independent variables are pain in less and more than 7 days, high degree pain in less and more than 7 days, history of NSAIDs/Steroids/DMARDs use, and disabilities. Validation test was assessed by calculating the sensitivity, specificity, PPV, NPV, LR, and ROC curve. Bivariate analysis using Chi Square analysis, and multivariate analysis using logistic regression. Results The sensitivity test results is best obtained on the question history of NSAIDs/steroids/DMARDs use 100 percent and specificity is best obtained on the question about disability 98 percent . ROC curve analysis which the results >85 percent obtained on the question of pain >7 days 90 percent , high degree pain >7 days 93 percent , and history of NSAIDs/steroids/DMARDs use 92 percent . LR to diagnose rheumatic diseases found in all questions. Chi square analysis showed that all questions were significant with  $p < 0.05$  and odds ratio obtained most on high degree pain more than 7 days OR 180.167, 95 percent CI 38.196 until 849.834 . Conclusion The modified COPCORD questionnaire Indonesian version has been adapted and can be a good tool in the screening of joint pain and musculoskeletal diseases compared to examination by rheumatologists.