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### **Development of care coordinator performance measurement tool for the Indonesian family physicians**

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**Background and Aim:** One of the role of family physician in primary care is Care Coordinator. Until now, there is no tool available to measure such performance. This study aims to develop care coordination measurement tool for family physician in Indonesia.

**Methods:** Various aspects for care coordination were listed from open ended questionnaire by experts: professional organization's member, academic staffs and health policy makers. All answers were grouped into various themes. Items were developed based on these themes. Delphi method towards experts, primary care physicians, and health facility managers was conducted to obtain consensus of items using 1-9 Likert scale. The items considered very relevant (Likert scale 8-9) with care coordination from more than 75 % respondents were selected for factor analysis.

**Results:** Thirteen themes for care coordination were obtained from 19 experts. From those 13 themes, 88 items were drafted from its definition and literature search. After having 2 rounds of Delphi (110 samples and 81 samples), 54 items were selected. No significant difference of characteristics were found in both Delphi samples. A study of factor analysis was conducted on 249 samples, consisting of doctors, nurses, and head of health care facilities. The study showed adequate number of samples and correlation for all items (KMO of Sampling 0.936 and Bartlett's Test < 0.001). Eleven factors were derived from the results of eigenvalue > 1 and screeplot, with total variation explained as high as 77%. Thirty three items were filtered after determined loading factor > 0.4. Cronbach's alpha for each factor varied from 0.700 - 0.913. Cronbach's alpha for total 33 items was 0.940.

**Conclusions:** A valid and reliable care coordination measurement tool for The Indonesian Family Physicians has been developed, consisting of 11 factors and 33 items. This tool will be beneficial for quality assurance in primary care services.