

Assessing Social Circumstances in Primary Care: Expert Consensus via Delphi Technique

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Abstract

Background and Objective: In the Japanese primary care setting, a set of questions to screen patients' social circumstances has never been developed in a scientific manner. This project aimed to reach a consensus among diverse experts to develop a set of such questions, to meet the need for assessing patients' health-related social circumstances.

Methods: We used a Delphi technique to generate expert consensus. The expert panel was composed of various clinical professionals, medical trainees, researchers, support members for marginalized people, and patients. We conducted multiple rounds of communication online. In round 1, the participants provided their opinions about what health care professionals should ask to assess patients' social circumstances in primary care settings. These data were analyzed into several themes. In round 2, all themes were confirmed by consensus.

Results: Sixty-one people participated in the panel. All participants completed the rounds. Six themes were generated and confirmed: economic condition and employment, access to health care and other services, living in everyday life and leisure time, total physiological needs, tools and technology, and history of the patient's life. In addition, the panelists emphasized the importance of respecting the patient's preferences and values.

Conclusion: A questionnaire, abbreviated by the acronym of HEALTH+P, was developed. Further research about its clinical feasibility and impact on patient outcomes is warranted.

Introduction

Inquiring about and assessing the social determinants of health (SDH) that affect patients is widely recommended in primary care encounters. To meet the needs of primary care professionals, several sets of questions to screen patients' social circumstances have been developed. These sets are mainly informed by literature reviews and physicians' practice-based opinions and therefore may prioritize physicians over other professionals and stakeholders. In Japan, a tentative SDH question set has been published. However, this set was not developed in a scientific manner. In our project, we aimed to reach a consensus among diverse experts including patients, non-health care stakeholders, and nonphysician medical professionals, to develop a set of items to address patients' SDH in the Japanese primary care setting.

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Methods

We used a Delphi technique⁴ to reach a consensus on inquiries about patients' social circumstances. This study followed the *Guidance on Conducting and Reporting Delphi Studies* (CREDES.)⁵ We conducted this research simultaneously with a previously reported study, which aimed to develop observable practice activities related to SDH in primary care settings.⁶ The previous study described the entire process of patient care. In our study, we aimed to identify specific items to be used in medical interviews. The expert panel included various clinical professionals, medical trainees, researchers, support members for socially marginalized people, and patients. All participants provided written consent for voluntary participation.

In round 1, we asked participants what health care professionals should ask patients or other related persons to assess patients' social circumstances in primary care settings. They recorded their opinions on an openended questionnaire. The first, second, and third authors analyzed the collected comments using content analysis. Coding data were collapsed and then modified through discussion with the other researchers to produce SDH items. In subsequent rounds, we asked participants to evaluate each item on a 5-point Likert scale (1: absolutely unimportant to 5: absolutely important) and to add free-text comments if necessary. We analyzed and selected responses using the following predefined standard: a mean score of \geq 4, a standard deviation of <1, and scores of 4 or 5 from \geq 75% of the panelists.

Participants were given 14 days to complete each questionnaire. Upon starting the subsequent round, participants received a summary of anonymous results from the previous round. In all rounds, questionnaires were provided via the web-based survey system SurveyMonkey (Survey Monkey, Inc, San Mateo, CA). The research ethics committee of the University of Tokyo Graduate School of Medicine and Faculty of Medicine (No. 2020250NI) provided ethical approval for this study.

Results

We recruited 63 people for the panel, and 61 people participated. The age range was 19–74 years (median: 42 years). Women accounted for 47.5% of the participants. Table 1 provides demographic details of the panel.

Round 1 identified 222 potentially important SDH-related factors to inquire about. Seven themes emerged from the content analysis: (1) human networks and relationships (ie, people one lives with or obtains help from); (2) economic conditions and employment (eg, income and expenditure, work); (3) access to health care and other services (eg, insurance, barriers to medical care, services used); (4) living in everyday life and leisure time (ie, basic and advanced activities, enjoyment); (5) total physiological needs, tools and technology (eg, basic life security, cars or other transportation, mobile phones); (6) history of the patient's life (eg, childhood experiences, education); and (7) although not specifically about SDH—patient's preferences and values. In round 2 we confirmed that all items met the positive consensus standard (Table 2), although some minor modifications were suggested. We revised the list according to these suggestions. Instead of performing round 3, we distributed the revised list to the panelists. All panelists approved the final version.

Conclusions

In this study, we developed an SDH assessment set via a scientific consensus-making process involving a wide range of stakeholders. To our knowledge, this is the first study to generate such a set in such a way, and we believe it will help in delivering patient-centered, quality health care. This SDH set can be abbreviated using the acronym HEALTH: Human networks and relationships; Economic conditions and Employment; Access to health care and other services; Living in everyday life and Leisure time; Total physiological needs, Tools and Technology; and History of the patient's life.

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In addition, assessing Patient's Preferences and values (+P) should be emphasized. Although this item is not specifically about social circumstances, many participants mentioned its importance, particularly in delivering contextualized care. They believed that focusing only on patients' social challenges sometimes meant that patients' thoughts, beliefs, and desires were ignored. Patients' preferences and values should thus be emphasized to avoid proposing solutions that are cheap and easy but inflexible.

Using an SDH question set may help physicians to incorporate the exploration of social factors into daily practice and facilitate dialogue with patients. Compared with previous relevant reports, the theme of tools and technology seems unique to this study. This theme emerged mainly from support members for socially marginalized people. Having a mobile phone is essential in modern life, and is particularly important for socially marginalized people, including people experiencing homelessness. Alcohol and tobacco use did not emerge as a separate theme in the present data, probably because this information is routinely collected in Japanese primary care settings.

This research has limitations. First, all authors and participants live in Japan. The nature of appropriate inquiries about SDH depends on the clinical situation to some extent. Cultural and structural differences should be considered in any attempts to apply these findings to other countries. For example, our list does not address racial or ethnic group differences. Second, every patient has unique social circumstances that cannot be fully encompassed by this question set. We took into account individualized approaches and care.

In conclusion, we used a consensus method to develop a set of items to inquire about and assess patients' social circumstances in the Japanese primary care setting. The diversity of the expert panel may increase the potential clinical effectiveness of these findings. However, further research is needed on the clinical feasibility of the items and any related improvements in patient outcomes.

Tables and Figures

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Table 1: Expert Panel Details

Table 1. Expert 1 and Details				
Teaching Physicians				
In academic hospital	4 (3 in GM, 1 in pediatrics)			
In community hospital	8 (3 in GM, 3 in psychiatry, 2 in pediatrics)			
In clinic	3			
Medical Trainees				
Physician (PGY 3-7)	6 (3 in GM, 1 in emergency medicine, 1 in psychiatry, 1 in pediatrics)			
Resident (PGY 1-2)	4			
Medical student	4			
Health Care Professionals				
Nurse	6 (2 in GM, 2 in home-based care, 1 in psychiatry, 1 in pediatrics)			
Social worker	3			
Pharmacist	2			
Public health nurse	2			
Medical clerk	5 (2 in medical secretary, 2 in resident office, 1 in manager)			
Expert Researchers				
In medical education	2			
In social epidemiology	2			
In social welfare	1			
In sociology	2			
Other Stakeholders				
Support members for marginalized people	3			
Patients	4			

Abbreviations: GM, general medicine; PGY: postgraduate year.

Table 2: Questionnaire Items Related to Patients' Social Circumstances in a Primary Care Setting

Items to Ask (HEALTH+P)	Information About Patient's	Approval Rate (Inclusion: Over 75%)	Mean Score (Inclusion: Over 4.0)	Standard Deviation (Inclusion: Below 1.0)
H uman network and relationships	Family, friends, neighborhood, community, advisor	98.4%	4.87	0.38
Economic condition and Employment	Income, payment, burden on health care expenditure, job description, working environment	100%	4.85	0.34
Access to health care and other service	Type and existence of medical and other insurance, means of medical visits, social security programs covered, services used	95.1%	4.74	0.60
Living in everyday life and Leisure time	Daily living (eg, how they live, take care of themselves, go out), enjoyment of daily activities	91.8%	4.41	0.69
Total physiological needs, Tools and Technology	Adequate food, shelter and housing, clothing, availability of necessities including car and mobile phone	95.1%	4.66	0.57
History of the patient's life	Life history, including childhood experience and educational circumstances	85.2%	4.33	0.86
Patient's Preferences and values	How patients think and what they value	91.8%	4.67	0.62

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Author Contributions: J.M. developed an initial list, recruited and contacted the panelists, summarized quantitative data, coded qualitative data and wrote the manuscript. T.M. supervised the rounds, coded the data and revised the manuscript. S.K. revised the initial list, coded the data and revised the manuscript. M.I., S.H., and M.E. revised the initial list, data coding, and the manuscript. All authors have given final approval to the paper.

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