Table 2 Barriers and facilitators to SDM in	Eastern Mediterranean Region (12-28,30)

		1. Participants factors		
		1.1 Physicians' factors		
.1.1 Physicians characteristics	112 Knowled	dge and experiences	112	Physicians' perceptions
Age (bar & fac) Gender (bar & fac) Position (bar & fac) Language (bar)	Years of exp Differences in usir (b Comfort level	perience (bar & fac) ng SDM as usual approach par & fac) with shared approach par & fac)	Patient enga There is no ro Patients are un Patient involveme	agement is not important (bar) from for SDM in our culture (bar) likely to weigh different treatment options (bar) ent decrease trust in physicians (bar) health care outcomes (bar & fac)
		1.2 Patients' factors	2.i.pectations is	riculti cure outcomes (our a rue)
1.2.1 Knowledge and exp	neriences	1.2.2 Patients' perceptions		1.2.3 Patients' preferences
Clinical knowledge (ba Level of education (ba Lack of knowledge about their ri information (ba Infamiliar with their rights in de Unfamiliar with the principl making (bar) Financially depend on their	ar & fac) ight for sufficient ar) cision making (bar) les of decision	Consider a consent as a form participation (bar) Perceptions about physicians' al in diagnosis (bar & fac) Perceptions about physicians' of about patients' budget (bar & Providers are uncooperative of willing to listen to patients (bar) Patients do not see themselved decision-makers (bar)	Preference pilities Preference paring fac) r not par)	rences for participation (bar & fac) tes for taking responsibility (bar & fac) tes for obtaining information (bar & fac) 1.2.4 Patients' characteristics Sex (bar & fac) Age (bar & fac) Unmarried female (bar) Unemployed (bar) Health condition (bar & fac)
		1.3 Family' factors		
1.3.1 Degree of invol Accompany patients at the cons Over-riding the process of dec	sultation (fac & bar)	Families' beliefs in t Delays in infor	heir responsibility f ming their patients	tion to diagnosis (bar) or the treatment decision (bar) about the diagnosis (bar)
		2. Consultation factors	regemente discuss	the decision and finalize it (bar)
2.1 Relationship betwee	en participants	2. Consultation factors 2.3 Evaluating pre		the decision and finalize it (bar) 2.5 Introducing options
No effort to interact or build the patients (d relationship with (bar)		ferences	2.5 Introducing options Introducing options (bar & fac) Physicians lead patients to use
No effort to interact or build the patients (Respectful behaviour from pl	d relationship with (bar) hysicians (bar & fac)	2.3 Evaluating pre	ferences erences (bar & fac)	2.5 Introducing options Introducing options (bar & fac) Physicians lead patients to use specific treatment (bar)
No effort to interact or build the patients (Respectful behaviour from pl Emotional support from phy Providing physical comfort Providing an opportun	d relationship with (bar) hysicians (bar & fac) ysicians (bar & fac) t for patients (fac) nity to discuss	2.3 Evaluating pre Considering patients' prefe 2.4 Decision m Physicians select the alone (bar	ferences erences (bar & fac) naking final decision	2.5 Introducing options Introducing options (bar & fac) Physicians lead patients to use
No effort to interact or build the patients (Respectful behaviour from pl Emotional support from phy Providing physical comfor Providing an opportun Patients' problem (d relationship with (bar) hysicians (bar & fac) ysicians (bar & fac) t for patients (fac) nity to discuss bar & fac)	2.3 Evaluating pre Considering patients' prefe 2.4 Decision m Physicians select the alone (bar Decision-making takes pla	ferences erences (bar & fac) naking Tinal decision T) ce in the presence	2.5 Introducing options Introducing options (bar & fac) Physicians lead patients to use specific treatment (bar) Patients ask for a certain treatment (bar)
No effort to interact or build the patients (Respectful behaviour from pl Emotional support from phy Providing physical comfort Providing an opportun	d relationship with (bar) hysicians (bar & fac) ysicians (bar & fac) t for patients (fac) nity to discuss bar & fac) with providers during ar) re known by their nc) vay of greeting and bar)	2.3 Evaluating pre Considering patients' prefe 2.4 Decision m Physicians select the alone (ban Decision-making takes pla or absence of the procession of t	ferences erences (bar & fac) making final decision c) ce in the presence atient (bar) tts to choose a fac) tt proceeding (bar) medical opinion r) with more than 1	2.5 Introducing options Introducing options (bar & fac) Physicians lead patients to use specific treatment (bar) Patients ask for a certain
No effort to interact or build the patients (Respectful behaviour from pl Emotional support from phy Providing physical comfort Providing an opportun Patients' problem (Passive role in communicating the visits (b) Providers and their roles an patients (fa Cultural influences on the w interaction (l)	d relationship with (bar) hysicians (bar & fac) ysicians (bar & fac) t for patients (fac) hity to discuss (bar & fac) with providers during ar) re known by their hc) vay of greeting and bar) (bar & fac)	2.3 Evaluating pre Considering patients' prefe 2.4 Decision m Physicians select the alone (bar Decision-making takes pla or absence of the procession of t	ferences erences (bar & fac) making final decision c) ce in the presence atient (bar) tts to choose a fac) tt proceeding (bar) medical opinion r) with more than 1 r (bar)	2.5 Introducing options Introducing options (bar & fac) Physicians lead patients to use specific treatment (bar) Patients ask for a certain treatment (bar) 2.6 Providing information Providing sufficient information for the treatment (bar & fac) Help patients to understand all use

decision (bar)

Physicians clarify the necessity of making a medical decision (fac)

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Table 2 Barriers and facilitators to SDM in Eastern Mediterranean Region (12-28,30) (Concluded)

3. Healthcare system factors 3.3 Organizational characteristics 3.1 Time constraints Type of hospital (bar & fac) Consultation time (bar & fac) Use expert teams or trained nurses to overcome the problem of time shortage (fac) Specialists per capita (bar) Providing decision tool at the time of patients' admission Workloads (bar) to allow adequate time to decide (fac) 3.2 Continuity of care 3.4 Health care resources Lack of an evaluation system for patients' and physicians' rights in decision-making Not recognizing the patients (bar) Providers address and refer to patient directly (fac) Lack of training in the field of SDM (bar) Staffing changes (bar) Creating incentives (fac) Provide appropriate role model among medical instructors (fac) Acculturate people through public media to the use of decision tools (fac) Increase physicians' skills and awareness in assessing patients' expectations of the treatment (fac) Increase patients' knowledge to demand their rights (fac) Consider cultural influences when developing awareness tools (fac) Design decision tools that suit any level of education (fac) Improving physicians' interactive skills (fac)

bar = barrier; fac = facilitator; SDM = shared decision-making.

17,20–23). Five studies reported physicians' perceptions, attitudes and experiences (24–28). Four studies explored experiences, perceptions and preferences of both patients and clinical staff (29–33).

In terms of the aims of the studies, two sought to determine physicians' and patients' perspectives on barriers to and facilitators of the use of patient decision aids (27, 29). Two other studies assessed the role of family members in treatment decision-making and factors that influenced that decision (18,19). The other studies reported on factors influencing physicians' and patients' preferences with regards to SDM. Only one study explored the process of decision-making by physicians and their patients during consultations (33).

Fifteen studies used a quantitative approach (mainly involving questionnaires). A qualitative approach was used in two studies (26,29) and in one thesis (33). A mixed-methods approach was used in another thesis (30).

Quality assessment

All of the included studies performed well in MMAT except for two that performed moderately (31,32). The qualitative and mixed-methods studies met all of their criteria. However, the majority most of the quantitative studies were limited by use of convenience or purposive sampling techniques or small sample size (See Supplement 2).

Discussion

This review identifies several influential factors for SDM in the Eastern Mediterranean Region that include physician, patient and family member perspectives. These factors span the individual participant's role in decih sion-making, current SDM practices during clinical con-

sultations, and SDM at the system level. However, the studies were from only seven countries. This indicates that SDM is not widely practised in countries in the Region as most developing countries have not integrated the concept of person-centred care into their health systems (34).

Presenting existing information in educational CD formats instead of handbooks (fac)

Developing the consent forms to include all sufficient information (fac)

Unsurprisingly, patient and physician characteristics, such as their prior knowledge, experience and perceptions of SDM, and preferences towards it, are influential in determining whether it is practised. However, the practice of SDM is also affected by the attitudes of family members and the degree of their involvement in the decisions. These factors affect the interactions between the physicians and patients, as well as the consultation process including patient engagement, information provision and option sharing, elicitation and evaluation of patient preferences, and eventual decision-making. System-level factors also play a part such as time pressures, availability of healthcare resources to support SDM, and the degree of continuity of care provided. Figure 2 represents the relationship between these factors.

The most frequently cited factor was patients' level of education. Similar findings were previously reported in other studies from western countries (35,36). Patients' age was also a determinant in the Region, with a notable preference for a passive role with increasing age. Although this mirrors a study from Japan (47), this age factor is not consistent worldwide. For example, one American study found that older people wanted to share their medical decisions or make their own (37). In the Region, older patients may lack clinical knowledge and have lower levels of education overall, which may explain the tendency towards adopting passive roles in decision-making (4,18–20).