







Stereotypes in clinical prevention practices involving health education: a systematic review

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Introduction:

Stereotypes or prejudices are frequently transmitted by physicians, as regards numerous patient characteristics such as age, gender, race/ethnicity and social class, and also disease. They have consequences on diagnosis, therapeutic decisions and prognostic assessment.

In the health education given during primary or tertiary prevention, the stereotypes or prejudices existence are sparsely documented.

Objective: To objectify stereotypes and prejudices on age, sex, race and social class levels disseminated by health professionals with regard to patients and discrimination in the framework of preventive education.

Methods: Systematic review

❖ Databases

MEDLINE, Web of Science, APA PsyArticles, from 1950 to 2020 (01/10/2020), and Francis (1971 to 2015 for Francis).

Study eligibility

at least one stereotype clearly defined on age or gender or race or occupation

produced by physician on patient

consequences of stereotype on health education during primary or tertiary prevention clinical practices

study conducted on physicians or patients

the outcome (dependent variable) was clearly defined

Algorythm

Table 1: Chosen Mesh terms of each dimension studied and strategies on adding these terms in research

	Dimension 1:	Dimension 2:	Dimension 3:	
	Psychosocial terms	Prevention terms	Population terms	
Strategy 1	"prejudice"	"counseling"		
	"stereotyping"	"tertiary prevention"		
	"social discrimination"	"primary prevention"		
	"Social stigma"	"health promotion		
	"ageism"	"health education"		
	"racism"			
	"sexism"			
	"occupations" and "stereotyping"			
	"social class"			
Strategy 2	Idem strategy 1	Idem strategy 1	"physician"	
			"Students,	
			Medical"	
Strategy 3	"bias"	idem strategy 1	idem strategy 2	
Strategy 4	Strategies 1 and 3	"healthy lifestyle"	Idem strategy 2	
		"Patient Participation"		
		"Treatment Adherence		
		and Compliance"		
		"Health Literacy"		
		"Self Efficacy"		

Results: 21 articles

Author	Year	Journal	Prevention type	Specialty	Stereotype from physicians	Country	Year
Taira	1997	JAMA	nutrition	General medicine	income	USA	1996
Young	1998	Tobacco Control	smoking	Pneumology	gender	Australia	1996
We	1999	JAMA	APA	General medicine	age, gender, social class	USA	NA
Cokkinidies	2008	Am.J. Prev.Med	smoking	Pneumology	race, ethnicity	USA	2005
Haider	2011	JAMA	relationship	General medicine	Ethnicity, social class	USA	2009-10
Austin	2013	J.Phys Act Health	APA	Rheumatology	age, gender, race, social class	USA	2007
Blair	2013	Fam Med	treatment adherence	Cardiology	Ethnicity	USA	2010-3
Csorz	2013	J.Health Psychology	relationship	Cancerology	gender	Hungary	NA
Hagiwara	2013	Social Sci Med	relationship	General medicine	Ethnicity	USA	2006-8
Tam	2013	BMC fam pract.	Alcohol	General medicine	age, sociocultural	Australia	2011
Schiebe	2014	J Mixed method	APA, nutrition, weight loss	General medicine	gender, social class	France	2006-7
Schoenthaler	2014	Ethn Health	treatment adherence	cardiology	race/ethnicity	USA	2001-5
Danesh	2014	Prey Chronic Dis	smoking	Pneumology	race, ethnicity, age, gender	USA	2010
Davis	2016	J Appl Gerontol.	sexual disease	Infectiology	age	USA	2012-3
Hagiwara	2017	Health Commun	relationship	General medicine	Ethnicity	USA	NA
Cormack	2018	PlosOne	treatment adherence	Cardiology, psychiatry	Ethnicity	New Zealand	2014-15
Khosla	2018	Social Sci Med	health responsibility	Cardiology	Ethnicity	USA, France	NA
Meijer	2018	Pat Ed Couns	smoking	Pneumology	gender	The Netherlands	2012
Calabrese	2019	AIDS patient care	sexual disease	Infectiology	age, health literacy	USA	2014
Ungar	2019	J <u>Behay</u> Med	self-management	Cancerology	age, gravity	Germany	2018
Herzig	2019	BMC Fam Pratc	burden of treatment	Chronic disease	age	Switzerland	NA

Experimental study: 43% with implicit association test (IAT) in 5 articles only - **Non Experimental**: 8 quantitatives (cross-sectional), 3 qualitatives (focus groups or interviews) and 1 mix.

In 6/21 articles, counsels are sparse (e.g 19% of physicians talk about sexual health) an in 5/21, counsels are unsystematic (e.g 72-85% Tabaco, 56% physical activity).

Racial/ethnic stereotypes or prejudices decrease likelihood of being advised.

Age, gender or social class stereotypes or prejudices are variable according to the heath topic: e.g. women seems to be more advices to physical activity than men.

Compliance is associated with patient gender and social class: e.g. low-income patients more likely changing their behaviour based on physician advice.

Trust is associated with race/ethnicity.

Conclusions:

It is the first systematic review on this topic in preventive clinical practices. we needed to capture stereotypes and prejudices in health education with numerous concepts (see algorythm). We shows that the topic is more confidential than in curative decisions as.

The review confirms the presence of stereotypes and prejudices on age, sex, race and social class levels disseminated by health professionals with regard to patients and discrimination in the framework of preventive education but it variable according to the health topic.

Exhaustive information about stereotypes and prejudices in preventive clinical practices could help to reduce their incidence and consequences in terms of discrimination. Solutions are healing environments, integration of culturally and linguistically appropriate services, physician training with empathy module, coping techniques, patient self-efficacy development.

>Perspectives: Further studies are needed to highlight stereotypes and prejudices with experimental design.