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# Original Paper

Social representations of e-mental health among the actors of the health care system: a free-association study

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#### **Abstract**

**Background:** Electronic Mental Health (e-mental Health) offers an opportunity to overcome many challenges such as cost, accessibility and the stigma associated with mental health and most of people with lived experience of mental problems are in favour of using applications and websites to manage their mental health problems. However, the use of these new technologies remains weak in the area of mental health and psychiatry.

**Objective:** To characterize the social representations associated with e-mental health by all actors to implement new technologies in the best possible way in the health system.

**Methods:** A free-association task method was used. The data were subjected to a lexicometric analysis to qualify words and to quantify them by analysing their statistical distribution, using the ALCESTE method with the IRaMuTeQ software.

**Results:** In order of frequency, the terms most frequently used to describe e-mental health in the whole corpus are: "care" (n=21 times), "internet" (n=21), "computing" (n=15), "health" (n=14), "information" (n=13), "patient" (n=12) and "tool" (n=12). The corpus of text is divided in two themes, with technological and computing terms one side and medical and public health terms on the other. The largest family is focused on "care", "advances", "research", "life", "quality" and "well-being" which is significantly associated with users. The nursing group uses very medical terms such as "treatment", "diagnosis", "psychiatry", "patient", to define e-mental health.

**Discussion:** This study shows that there is a gap between the representations of users on emental health as a tool of improvement of their quality of life, and those of health professionals (except nurses) more focused on the technological potential of these digital care tools.

**Conclusion:** The social representation of e-mental health conditions uses and intention of use of which developers, designers, clinicians and users must be aware. This understanding of everyone's stakes will make it possible to redirect the development of tools to adapt them as much as possible to the needs and expectations of the actors of the mental health system.

**Keywords**: e-mental health; social representations; free association task; psychiatry; mental health; mental health service users; technology; digital health

#### Introduction

#### Context

Mental health care continues to face many challenges such as cost, accessibility and the stigma associated with mental health. This results in inequalities and inadequacies in the treatment of many people with lived experience of mental health problems [1]. The field of e-Health offers an opportunity to overcome these structural and personal barriers to seeking help [2]. Electronic Mental Health (or digital mental health) includes teleservice/telemedicine, interoperability repositories, shared medical records, mobile applications (m-Health), elearning, online information search and sharing, etc. Psychiatry, more than any other discipline, will be able to benefit from these new technologies. During the Covid19 pandemic crisis, rapid virtualization demonstrated that clinicians, mental health services users and healthcare systems were able to quickly adapt to telepsychiatry, overcoming previous obstacles including regulatory constraints, system inertia and general resistance to telepsychiatry [3,4].

The use of technology is exponential in our society, especially the use of smartphone (more than 3.8 billion users worldwide) [5] to travel, communicate, work, manage one's finances or to have social relations. Recently, the World Health Organization (WHO) intends to use "new opportunities, creativity, learning and technology [...] to ensure the health and well-being of everyone" [6]. The use of Information and Communication Technologies (ICTs) in health care since the 2000s is already improving access to care by strengthening communication between health services users and providers and by making health systems and decisions more efficient and cost-effective [7]. Indeed, in addition to the provision of direct service delivery, e-health enables people with lived experience of mental health problems to access their shared medical record, receive medical advice and information directly on their computers, tablets or smartphones.

However, the use of these new technologies in the area of health and mental health remains weak. In France, only 6% of the population would have already experienced teleconsultation and 9% of healthcare professionals would have already done (at least) a teleconsultation with one of their patients [8]. Also, nearly two thirds of the French population telling themselves not ready to use connected objects in the future in the healthcare field [9]. On the contrary, people with lived experience of mental health problems are more and more connected, most of them are in favour of using applications and websites to manage their mental health problems [10].

This study explores the social representations of e-mental health with the actors of the mental health system with the hypothesis that these social representations can help to understand and characterize the intentions of use.

# Social representations in e-health

Several questionnaires were created in order to get an understanding of the barriers to the use of new technology in general. Those Technology Acceptance Models (TAMs), created in the 1980s, were used to better target the e-health expectations of users [11] and professionals [12] based on two main questions: "Is this new technology useful for me" and "Is this technology easy to use? ». Some researchers [13,14] have highlighted the need to broaden this questioning to include environmental factors of individuals, including social influence between subjects but also between the tool and the subject. Indeed, this very logical-scientific approach to TAMs must be supplemented by a vision, certainly more subjective, but which

directly questions social cognitions referring to the "object of e-mental health". In order to understand the place of the individual in relation to this object in society and the socio-economic power issues that emerge from it, it seems essential to question the mental image of e-mental health according to beliefs and attitudes about it [15]. According to Jodelet, it is from this singular mental representation that a form of "knowledge is constructed, socially elaborated and shared, having a practical aim and contributing to the constitution of a reality common to a social group" [16]. Thus, the social representation creates a link between the individual and the feeling of belonging to a group in society with same interpretations and uses of e-mental health.

## Objective

This study aims to characterize the social representations associated with e-mental health by all actors in order to implement new technologies in the best possible way within the health system.

#### Methods

## Study Design

A qualitative study (EQUME) was conducted by the WHO Collaborating Centre of Lille (France) in order to assess the social representations and norms of 10 typologies of actors involved in the health care system. These 10 categories were chosen in order to have access to different professional groups with different references and practices (general practitioners, psychiatrists, social workers, psychologists, occupational therapists and nurses); to service users and family carers; to user representatives, the latter having a discourse significantly different from the users, and to the general public. Participants were recruited through announcements to various professional networks, peer-support groups, user and carer representatives (mainly posted on their respective websites) and by word of mouth. The inclusion criteria were as follows: 1) belong to one of these 10 categories of actors, 2) speak the French language, 3) be of legal age, 4) agree to participate in this study. There were no other criteria for non-inclusion. The data was collected during focus groups (moderated by a social sciences researcher and an assistant psychiatric moderator) which took place in two French cities.

A first part of the study, based on data collected in focus groups revealed an heterogeneous and unstable definition of e-mental health with regard to the different groups of actors concerned as well as within each group [17]. A second part of the study, presented here, is based on the free association task method.

Each focus-group was initiated by a sociodemographic questionnaire collecting the variables: age, gender and profession. It was then asked to complete a self-reported familiarity scale ranging from 0 to 10 with e-mental health devices (see Table 1). Finally, a free association task—detailed below—was conducted to collect words related to e-mental health.

EQUME study was the subject of a declaration of compliance with reference methodology at the French National Agency for Medicines and Health Products Safety (N°2040798 v 0, March 3, 2017). All participants were asked to sign a consent form.

#### Procedures and method

The free association method was chosen to study the social representations of e-mental health. This method is based on a question of evocation (or word associations) with the following written instructions: "Quote three words related to "e-mental health, then three more words

related to these words" (see Appendix 1). This exercise will result in having three words at the first level, then nine words at the second level as each word from the first level will be associated with three other words. This makes a total of twelve words or expressions per participant. The free association method is a classic tool in studies on social representations [18-20]. It calls upon the latent content of representation [15,21] opening a path to the semantic field of the social object studied through the spontaneity and projective dimension of the method of free associations [15]. According to Abric, social representation is composed of a content (information, opinions, beliefs, attitudes, etc.) and a structure [15]. The structure consists of a central system (or central core) and a peripheral system, each of which is composed of the beliefs of the same name. The central elements have "evidential status" and help to "provide a framework for interpreting and categorizing new information" [15]. The peripheral system links the central core of the representation to the reality of the moment for individuals. For example, if we consider "knowledge acquisition" as the central core of the object "study", for some "the library" will be a peripheral element, for others "the scholarship" will be an entirely different one (considering that knowledge acquisition would allow one to obtain a scholarship related to further study).

## Data analysis

We used several types of Text Data Analysis (TDA) in this study. TDA correspond to a set of methods that aim to analyse the information contained in a text. Two of the authors (OLV and PB), specialised in the statistical analysis of textual data conducted the technical analyses, guided by a social sciences researcher (MM) and mental health clinicians (PM and DS). They use categories to qualify elements of the text and quantify them by analysing their statistical distribution.

# Lexical analysis

The data were subjected to a lexical or lexicometric analysis: the ALCESTE method. It was developed by Reinert on the basis of the work of Benzécri and the textual statistics of Lebart and Salem [22]. We used the IRaMuTeQ software, in "open source" and free, which uses the R language [23] and is developed by Ratinaud and Dejean.

Text segments have been created from each "level 1 word" and the three "level 2 words" associated with them (equivalent to a branch of the tree structure of the free association diagram, see Appendix 1). This makes 3 sentences or text segments called B1, B2, B3 (in the order of the word branches quoted from left to right on the diagram) per participant. In order to identify groups of words often together in these text segments, the analysis performed is mainly a Hierarchical Descending Classification (HDC). The software builds a tree structure and a classification is proposed grouping the words most often used together in the same sentences or segments.

Still using the IraMuTeQ software, we obtained a visualization of the relations between the word clusters and the variables studied (age, sex, familiarity with e-mental health, categories of actors, order of text segments, i.e. B1, B2 and B3) with the corresponding chi2 (p=0.05). We define a significance threshold at 5%. Based on Correspondence Factor Analysis (CFA) applied to the centre of the clusters, this visualization provides pairs of images that can be stacked together. One of the images represents the relative proximity of words and, the other one, the types of text segments concerned, around the centers of these lexicons. The central words are the most common and the distance from the center indicates the specificity of one or the other word. The axes mathematically maximize the visibility of specificities, but their orientation on the page (top/bottom and right/left) is arbitrary.

## Thematic or categorical analysis

To deepen the links that exist between the different terms, we use a graph representation tool (Neovis) in order to visually understand the different word associations. For this purpose, three researchers independently classified the one hundred eighty terms of level 1 into twenty-four categories.

On a technical level, the graphs were built from the excel file resulting from the encoding of the responses that we injected into a dedicated database (neo4j) using a python script. An HTML page connecting to this database was then built, its role was to retrieves the relationship of interest and represent it using Neovis.

#### Results

#### **Baseline Assessment**

The sample comprises a total of 70 people (37 women and 33 men) between 24 and 77 years old (average age of 44). They correspond to 10 categories of actors: general practitioners, psychiatrists, user representatives, general public, family carers, social workers, psychologists, service users, occupational therapists and nurses.

Self-reported familiarity with e-mental health ranges from 0 to 9/10 but is on average very low for all groups. The occupational therapists report the lowest level of familiarity (1.1) while general practitioners report the highest level of familiarity (4.5).

Responses to the free association questionnaire had 167 words missing for 828 possible answers (20.16%). The user group has the highest rate of missing words (46%), as it is the group with the most participants.

**Table 1**. Participants' characteristics and self-assessment of e-health knowledge

Categories of actors	Participants			Age of participants	Knowledge of e-mental
	Men	Women	Total		
General Practitioners	4	1	5	48,4 (40-59)	4,5 (3-5)
Psychiatrists	3	2	5	43,6 (25-62)	3,2 (0-8,5)
Users representatives	2	1	3	54,3 (29-77)	3,3 (1-6)
General public	0	6	6	38,5 (29-53)	3,2 (1-7)
Family carers	6	3	9	62,2 (48-74)	1,8 (0-4)
Social workers	0	5	5	43,2 (29-57)	1,6 (0-5)
Psychologists	1	6	7	35,7 (25-59)	1,7 (0-5)
Service users	11	1	12	42 (30-59)	3,7 (0-9)
Occupational therapist	2	7	9	38,4 (24-56)	1,1 (0-4)
Nurses	4	5	9	36,7 (25-48)	2,6 (0-6)

Total/Average	33	37	70	44,3 (24-77)	2,2 (0-9)
				· · · ·	· · ·

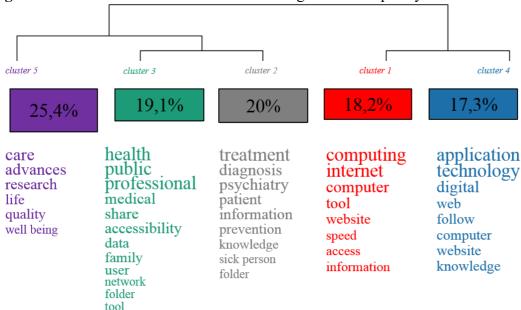
## Lexical analysis

In order of frequency, the terms most frequently used to describe e-mental health in the whole corpus are: "care" (n=21), "internet" (n=21), "computing" (n=15), "health" (n=14), "information" (n=13), "patient" (n=12) and "tool" (n=12).

The terms that are cited several times together (co-occurrences) throughout the corpus are: "internet" and "information" (n=6), "internet" and "computer" (n=6), "activity" and "workshop" (n=5), "activity" and "care" (n=5), "hope" and "activity" (n=5), "carefree" and "activity" (n=5), "will" and "activity" (n=5).

Analysis of the similarities and differences between the terms used by the participants (Figure 1) shows 5 clusters of words characteristic of the main themes addressed. The percentages represent the number of times the words are cited together throughout the corpus.

Figure 1. Classification of words used according to their frequency of co-citation



In the same text segment by all participants in 5 clusters with p<0.05 for all words.

The corpus of text is divided in two, with technological and computing terms one side and medical and public health terms on the other.

As for the medico-social terms, the largest family (cluster 5) is focused on "care", "advances", "research", "life", "quality" and "well-being". It is related to two families (clusters 2 and 3) which also include health-related terms but differ from them by more general terms. These two other clusters are distinguished by more specific terms related to psychiatry and preventive medicine ("psychiatry", "diagnosis", "prevention", "information", etc.) and by access terms related to public health and the direct environment of the user of the health system ("health", "public", "share", "user", "family", etc.).

professional
diagnosis
treatment healthshare
psychiatry revention
patient sick person accessibility
knowledge information
psychology network

psychology network

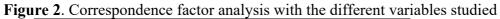
tool digital
speed computing internet

care research

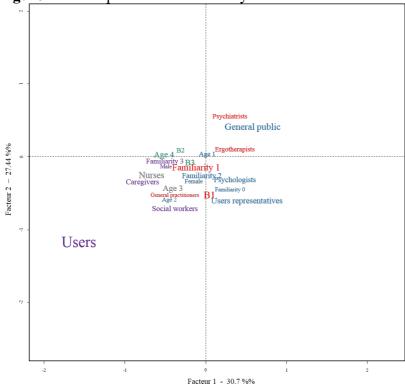
advances

Figure 1. Correspondence factor analysis of free word association about e-mental health.

internet website web computer technology application



Facteur 1 - 30.7 %%



B1: Text segment 1; B2: Text segment 2, B3; Text segment 3.

Age 1: 20 to 30 years old; Age 2: 31 to 40 years old; Age 3: 41 to 60 years old; Age 4: >61 years old.

Familiarity 0: no answer; Familiarity 1: 0-2; Familiarity 2: 3-5; Familiarity 3: 6-9.

During the task of free association, we can see that the participants very frequently quote in the first line of response (chi<sup>2</sup>=4.93 and p=0.02) terms associated with the lexical fields of technology and computer science (B1, Figure 3) overlapping with cluster 1 (Figure 2).

Participants over 61 years of age relate e-mental health to terms in the fields of "health", "public", "professional", "medical", "accessibility", "family", "user", and "network" (chi²=3.93 and p=0.04).

The correspondence factor analysis (Figures 2 and 3) shows that the group of users are those who use the terms focused on "care", "progress", "research", "life", "quality" and "well-being" the most (chi<sup>2</sup>=11.16 and p=0.00083). It appears that this group of participants would make very little use of the other families of words and almost none of them uses terms related to technology or computering (clusters 1 and 4).

The nursing group uses very medical terms such as "treatment", "diagnosis", "psychiatry", "patient", etc. to define e-mental health. (chi²=4.8 and p=0.02). They would also use more global words, focusing on "quality", "care", "progress", "well-being" as well as users. They do not associate e-mental health at all with the terms of public health-oriented family (cluster 3). The general public group associates terms such as "application", "technology", "digital", "web", "monitoring", "computer", "site" and "knowledge" with e-mental health (chi²=4.63 and p=0.03). So does the group of user representatives (chi²=3.11 and p=0.07).

The general public, psychiatrists, occupational therapists, user representatives and general practitioners use very little or no medico-social vocabulary (from clusters 2, 3 and 5) within their representations of e-mental health. These groups are more likely to use terms focused on computering and technology.

# Semantic analysis

The twenty-four ad hoc categories constituted by the investigators and based on level 1 terms are illustrated on Figure 4. This graph summarizes the main corpus by lexical fields. It introduces a dynamic dimension by adding links between the different categories, which can be compared to more or less "stretched springs" depending on the number of relationships between groups of words.

Organisation

Disease/treatment
Patient
Computing
Support
Convenience/accessibility
Public

Device
Innovation/lare

Figure 4. Links between ad hoc categories on level 1 words

Digital litera

Criticism

Connectivity

Stroke thickness and node distances represent the frequencies of word co-occurrences between categories.

Well being

Psychiatry Psychology Health care structure

As shown above, it is possible to notice that the central place of the category "care" has a link with almost all the other categories. The terms constituting this category are therefore at least once related to the words used in the other categories.

The other graphs that were made according to the different variables (age, gender, familiarity with e-mental health except groups of participants) show a core of close relationships between the categories: "care", "connectivity", "pathology/treatment", "device", "telehealth", "computing", "information/training", "digital literacy", "practicality/accessibility" and "innovation". There was no clear structural difference on the graph (Figure 4). It is possible to observe differences between the groups of participants depicted on the graphs, however it is not possible to provide a clear conclusion because of the low number of participants per group.

#### Discussion

Recent

## **Main Findings**

The scores of the self-reported familiarity scales are generally below average and are opposed to the richness of the words and lexical fields mobilized by the participants during the task of free association. This highlights a necessary distinction between daily digital use and access to digital health literacy that is controlled [24]. It is the responsibility of the State to set up an

Other

education system at school that allows future e-citizens to know how to use these tools in an informed way and to manage their digital identities and a digital infrastructure in order to avoid the "digital divide" as well as digital health illiteracy [7].

In the main corpus, a homogeneous and frequent vocabulary field relating to healthcare and ICTs (Figure 4) allows us to formulate the hypothesis of the centrality of these lexical fields illustrating the social representations of e-mental health of the participants. The absence of terms with positive or negative valences is to be noted. In addition, a very consensual and materialistic definition characterizes the central system of social representation. E-mental health is considered as a new technological, computer and medical tool that would be able to offer a diagnosis or treatment to people with lived experience of mental health problems. These tools are at the service of information and training. Data from the free association task suggest a relative openness or at least a lack of aversion to the mental health of participants. The subsequent focus-group discussions also point in this direction, but nevertheless highlighted fears linked to 'dehumanisation' or the replacement of humans by technological tools [17]. The peripheral elements are linked to the structural and organizational dimensions of e-mental health, i.e., "structure of care", "organization".

The group of services users of the mental health system is clearly distinguished by a specific vocabulary. It differs from the words most found in the main corpus but also from the other groups of participants. These discrepancies evoke the nuance between users' expectations of improving their quality of life in the first place, and that of health professionals (except nurses) more focused on the potential of new digital tools to perform repetitive tasks for them, allowing them to refocus their practice on what makes (clinical) sense.

Psychiatry and psychology are also peripheral elements of the representation of e-mental health. While psychiatry has established itself as the "normal practice" that has regulated the conception of disorders and their treatments for many years, it may seem "natural" that it now extends its jurisdiction to the field of mental health. This extension could thus announce the renewal of psychiatric practices, as well as their social role. Current frameworks guiding clinical practice in psychiatry and psychology are limited because they do not address the complex reality of people with lived experience of mental health problems. They project on them a predefined reading grid and neglect the dynamic interaction between their real, lived experiences, inextricably linked to social, psychological and biological contexts [25]. The mental health care system thus does not consider the fundamental realities of people with lived experience of mental health problems in their daily life. We therefore urgently need new paradigms of clinical practice to effectively treat these people in vivo, in which what matters the most for them - loss of meaning, impoverishment, social isolation and/or disability associated with symptoms - is also what matters the most to clinicians [26,27]. However, the new digital tools can precisely enable people to be observed and treated in vivo, by integrating a stream of ecological and multidimensional data. These developments require theorizing methodological approaches to guide the design of new digital tools adapted to the challenges of a digital clinic.

This integration of digital tools in the daily practice can thus become part of 'professional project' in order to gain status and expand territories [27].

"Well-being" is also a peripheral element associated with "care" for users specifically. This representation illustrates the process of gradually extending psychiatry to "mental health" and even happiness since the 1980s. This extension is based on the redefinition of health by the World Health Organization (WHO): no longer as the absence of disease but as a "complete physical, mental and social well-being". "Mental health" has become ubiquitous in public health discourse and more broadly throughout the social landscape since the early 2000s.

Many actors in the field see it as a form of injunction to happiness and well-being beyond the scope of psychiatrists' intervention. This presence of "well-being" in the discourse of users can also be explained by the fact that the current technological tools are not necessarily medical tools but common objects (connected watches, actimetry bracelets, smartphone applications...) that have been designed according to ways of thinking about the world from other fields than psychiatry, in particular the well-being and quantification of oneself.

"Relationship" is also one of the peripheral representations associated with e-mental health. New technologies are changing caregivers and people with lived experience of mental health problems relationships enabling new forms of digital intimacy thanks to a new form of continuity of care. According to Fairhurst, abstract medical knowledge ('knowing the patient') can thus be supplemented and enriched by personal exchanges that can help the clinician to "'knowing about the patient' [28]. The most recent example comes from the COVID-19 healthcare crisis during which telepsychiatry allowed the maintenance of social link through digital health despite the need for physical distancing [29]. Although the technology has enabled the maintenance of a caregivers/patient's "connection", experts recommend the complementary use of telepsychiatry with face-to-face interviewing [3,29]. It is a question of finding the balance point of these new hybrid relationship modalities within the patient- caregivers -technology triad. Shore raised the following question: "Is there a virtual saturation point at which the benefits of a virtual relationship diminish, or patients demand more face-to-face interactions? » [30]. The relationship between service users and professionals seems to be evolving towards a rebalancing of each other's roles and is being profoundly transformed under the effect of new technologies, the e-citizen-user is thus becoming informed, actor of his or her health, expert, and partner in an increasingly digitalized ecosystem.

Although the processes of "autonomy" and empowerment are recommended by public health authorities and that these terms are increasingly present in the contemporary discourses of patient and service user associations as well as more widely disseminated in society, it is surprising that they are totally absent from the task of free association. However, the discursively configured involvement of patients in their care through technology is a matter of debate: advocated by some as a means of horizontalizing the caregivers/patients relationships and contested by others as a social injunction and the sign of the expression of a Foucauldian bio-power [30]. The promising discourses of digital health policy position citizens as objects of political intervention but neglect the many social, political, cultural and economic inequalities that precisely prevent engagement in digital health [31].

Similarly, "data" is absent from free associations. Participants thus did not seem to question the place of their own data in the mental health ecosystem or to be concerned about the use that private lobbies can make of it. This absence of "data" from the discourses of all the typologies of actors can be interpreted at different levels. Users of the health system may seem to "not care" about the confidentiality and security of their data. There might be a few reasons to that: they may trust the e-mental health ecosystem, it may seem that the benefit-risk balance makes it preferable for them to use these digital tools or, they may not master the issues related to the use and circulation of their data. This could be explained by the difficult acquisition of health literacy for users of the health care system as well as for professionals, not because of lack of interest but rather by the complexity of the health ecosystem (i.e. the lack of resource and reliable evaluation of medical information on the Internet). To use Petersen et al.'s concept, "cartographies of trust" has now become extremely complex and follows tortuous and emotionally-charged paths that require navigating between online and offline resources [32]. Health literacy is evolving, it requires medical, informational and, more recently, digital skills [24]. Considered increasingly civic and social [33], it is now part

of the community with on the one hand the need for an awareness of "self-concern" at the individual level [31] and on the other hand the need for an optimal organization of the health ecosystem managed by the guardianships.

As Henwood rightly points out, at the level of the individual, the ways people 'make sense with numbers' and numbers 'make sense of people' interact so finely that it is extremely complex to determine towards or tilt the balance between freedom and power, determining and being determined, acting and being acted upon; in such a way that it is urgent to expand our sociological imaginations of the 'reflexive' patient or citizen [31].

#### Limits

The aim of this study was to "photograph" the social representations of e-mental health from the different typologies of actors in the health care system. The speed of development of new devices implies new uses likely to have a retroactive impact on users' representations, making it difficult to capture these constantly evolving representations. Also, one of the main limitations of our work is related to the small number of participants present in each group. Our material has a certain number of non-responses to the task of free association without the possibility of exchange with participants. More qualitative studies, using narrative content, interviews, focus group and field observation methodologies are needed to further explore the social representations of e-mental health among different actors.

#### **Conclusions**

The rise of e-mental health in our health systems is both a challenge and an opportunity for mental health. This study showed that the social representations of e-mental health differ according to the social group to which participants belong. It conditions an intention of use that developers, designers, clinicians, and users must be aware of. This better understanding of everyone's stakes will make it possible to redirect the development of tools and adapt them as well as possible to the needs and expectations of the actors of the mental health system. In this process of listening and horizontalization of the relationships between actors, the aim is to harmonize the contribution of digital tools and enable their appropriation by all users, as well as facilitating equal access to care by bridging the digital divide. In order to do so, the guardianships must ensure the deployment process of the tools. If all user-citizens have to be concerned by these policies and if they are to remain committed to a better knowledge of themselves and their health, these reflections must be participatory and collaborative. In this sense, the improvement of the components relating to the training of actors through the acquisition of digital skills and the increase of literacy e-mental health is at the dawn of a successful implementation of digital mental health.

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# Conflicts of Interest

None declared.

## **Abbreviations**

CFA: Correspondence Factor Analysis

HDC: Hierarchical Descending Classification

ICTs: Information and Communication Technologies

m-Health: mobile health

TAMs: Technology Acceptance Models

TDA: Text Data Analysis

WHO: World Health Organization

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# Appendix.

Consign: Quote three words related to « e-mental Health » then three more words related to those words.

