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Project title:
Staff attitudes towards follow-up and screening of depression via the patient's mobile phone.

Background

In Sweden, the lifetime prevalence of depression is estimated to be 13.2% among men and 25.1% among women[?]. There is a well-established relationship between suicide and mood disorders[?]. It has been estimated that 50–80% of completed suicides are associated with mood disorders[?]. Suicide is the leading cause of death among men between the ages of 15 and 44 in Sweden[?]. Nevertheless, it is estimated that just over $\frac{2}{3}$ of all suicide cases had recently been in touch with the healthcare. Only half of them had contact with a psychiatric clinic[?]. In many cases, the suicide could have been prevented if adequate efforts had been made[?]. Guidelines for the treatment and follow-up of depression exist, but the increase in mental problems among young people poses a major challenge^{??}.

Thus solving the difficult situation require new ways of dealing with depression. Perhaps cell phones can be used to fight depression? Some cell phone apps have been developed for the purpose of benefiting the health care of depressed patients. The apps could be categorized into two groups depending on what end-user they are meant for. If the end-user is a patient, then the app helps the patient track and understand the symptoms through a mood diary[?]. If the app is meant to be used by healthcare staff, then the app is constructed around different questionnaires[?]. Both approaches may result in somewhat better results for the patient, but by focusing on either the patient or the staff a key aspect is neglected. In order for the healthcare staff to help the patient as good and effective as possible, it is necessary to focus on the communication between both parties.

Purpose

In order for the healthcare staff to give the depressed patient adequate help, the staff needs adequate information about the patient. In investigations of somatic pathologies, adequate laboratory tests are usually done before an appointment. What if the patient's mood could be measured in a similar way before an appointment? With the purpose of enhancing the communication between the patient and healthcare staff an app prototype for android cell phones (eMADRS) has been developed by the first author^{??}. The app consists of a MADRS-S form where the result is sent to a phone number as an SMS text message. MADRS-S is a verified tool commonly for screening and follow-up of depression^{??}. It consists of 9 questions where the patient answers with a rating from 0 to 6. The score is categorized as follows:

score	severity of depression
0–6	no depression
7–19	mild depression
20–34	moderate depression
35–60	severe depression

The research question is: What advantages and disadvantages are identified from a professional clinical perspective, using a digital mood evaluation instrument for depression in screening and follow-up? The aim is also to collect proposals for further development of eMADRS.

Materials and Methods

Interviews with at least 2 focus groups, consisting of about 5–7 primary care unit employees from different staff categories that are involved in the treatment of depression. The staff categories concerned are primarily physicians, nurses and members from the so-called psycho-social teams (e.g. psychologists)[?]. Each group will consist of as few staff categories as possible. This would be beneficial for the interviews since it would minimize the risk of hierarchical group dynamics. The interviews are then analyzed using qualitative content analysis[?]. From the recordings, codes are derived and categorized. The categories are then grouped into themes.

Specific goal/Expected significance

For at least the last 7 years, the county council's expenses have increased by approximately 5% per year. Adjusted for inflation, it will be approximately 3% per annum^{??}. We soon cannot afford good health. The strategies in healthcare must change. Hopefully, this project can be a step in the right direction. The results may show new ways to make the depression treatment better and more cost-effective.

Medical or clinical relevance of the project.

The depressed patient is often locked in a state of not being able to manage the worsening of the depression. The faster the staff knows about a deepening of depression, the faster the staff can intervene. The faster the intervention starts, the better is the prognosis. From the patient's perspective, the new ways of communication through a mobile app could be very beneficial. The key question is how the new possibilities should be handled by the healthcare professionals. Currently, the outward patient doesn't have a frequent contact with health care professionals, and the interventions have to be powerful in order to stop the progression of the depression. In those interventions, the beneficence model is often applied and the patient's integrity and feeling of autonomy are often hurt[?]. If, on the other hand, the patient's condition was to be analyzed more frequently, then perhaps it would be possible to handle the depression in a cheaper and better way. The new ways of managing the patient's health could respect the autonomy of the patient. The patient's health could be managed together with the patient[?]. Potentially the project could show qualitative, quantitative as well as financial benefits from eMADRS as a compliment in the follow-up and perhaps screening for depressed patients.

Planned format and language of the essay

The work will be a scientific article in English with the Oxford citation and journal style guidelines[?]. The cited article and L^AT_EX will be used for writing the article[?].

Ethics

The project's character is developmental work within the clinic. Therefore it is being examined in terms of confidentiality and safety by the Head of

Operations. The project does not fall under the Ethics Testing Act's research definition.

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