

# Information technology in mental health

<b>Submission date</b> 07/12/2009	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 07/01/2010	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 11/09/2012	<b>Condition category</b> Mental and Behavioural Disorders	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data

**Plain English summary of protocol**  
Not provided at time of registration

## Contact information

**Type(s)**  
Scientific

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## Additional identifiers

**Protocol serial number**  
207384

## Study information

**Scientific Title**  
Evaluation of internet-based patient support system in mental health care: a randomised controlled cost-effectiveness analysis

**Acronym**  
Mieli.Net

## **Study objectives**

1. Does information technology (IT) affect patients' insight, quality of life, symptoms, compliance, knowledge of illness and its treatment, support treatment satisfaction, and independence or shore up opportunities for psychosocial functioning more effectively than written patient information or traditional information methods?
2. Does the use of IT in clinical practice improve the staffs' knowledge level and IT-related skills, attitudes towards technology use or affect staff co-operation and working methods?
3. What are the short and long-run costs of IT compared with written material and traditional methods used in clinical practice and does IT benefit the health care organisation and society more than the two other methods from the viewpoint of cost-effectiveness?

## **Ethics approval required**

Old ethics approval format

## **Ethics approval(s)**

Ethics Committee of Pirkanmaa Hospital District approved on the 13th December 2004 (ref: ETL R01181)

## **Study design**

Randomised controlled trial

## **Primary study design**

Interventional

## **Study type(s)**

Treatment

## **Health condition(s) or problem(s) studied**

Schizophrenia, schizotypal disorders or delusional disorders

## **Interventions**

Staff in Group X will receive education (basic/advanced groups) on how to use computers, access internet-based services, and use IPSS during their educational sessions with patients. Only nurses in Group X have access to IPSS to avoid inter-group contamination. Staff in Group Y will be educated to manage education sessions with written/oral material only.

In patient groups, Intervention Group A will receive need-based computerised information during discussions with a staff member with five technology sessions each lasting about 20 - 60 minutes roughly twice a week. At the end of the session, patients will receive individualised leaflets. They will also be instructed on how to use IPSS after discharge. Patients in Comparison Group B will have five oral sessions on their education programs (no use of IT). The content, number and length of the sessions is the same as in Group A. Patients in Control Group C will receive standard care, i.e. no educational sessions will be offered and they receive written information (e.g. leaflets) according to ward standards.

Total duration of intervention was all together five education sessions after baseline measurement during one month and 1 - 2 sessions/week. Total duration of follow-up for all arms was 12 months.

## **Intervention Type**

Other

**Phase**

Not Specified

**Primary outcome(s)**

Insight: The Schedule for the Assessment of Insight (SAI), measured at baseline (BL), 1, 3, 6 and 12 months

**Key secondary outcome(s)**

1. Quality of Life: Quality of life (the Quality of Well-Being, the Health Utilities Index, EQ-5D) and the Manchester Quality of Life Instrument (MANSA), measured at BL, 1, 3, 6 and 12 months
2. Symptoms: Semi-structured interview addressing psychiatric symptoms (Positive and Negative Syndrome Scale [PANNS]), measured at BL, 1, 3, 6 and 12 months
3. Compliance: Patients' compliance with treatment, patients' compliance with medication (Drug Attitude Inventory [DAI]), measured at BL, 1, 3, 6 and 12 months
4. Follow-up of medication adherence and treatment appointments (analysis of medical records)
5. Knowledge about illness and treatment: Knowledge test, measured at BL, 1, 3, 6 and 12 months
6. Treatment satisfaction during discharge process (Client Satisfaction Questionnaire-8 [CSQ-8]), measured at BL and before discharge
7. Disability and psychosocial functioning: symptoms disturbing work, social life, and family responsibilities (Sheehan Disability Scale) and the Global Assessment of Functional Scale (GAF), measured at BL, 1, 3, 6 and 12 months

In addition, drop-outs in each arm were analysed to estimate the acceptance of the interventions.

**Completion date**

04/10/2007

**Eligibility****Key inclusion criteria**

1. Aged 18 - 65 years, either sex
2. Diagnosis of schizophrenia, schizotypal disorders or delusional disorders (chapters F20 - F29, International Classification of Disease, version 10 [ICD-10])

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

All

### **Key exclusion criteria**

1. Unable to use the Finnish language
2. Unable to give written informed consent to participate

### **Date of first enrolment**

14/03/2005

### **Date of final enrolment**

04/10/2007

## **Locations**

### **Countries of recruitment**

Finland

### **Study participating centre**

#### **Department of Nursing Science**

Turku

Finland

20014

## **Sponsor information**

### **Organisation**

Academy of Finland (Finland)

### **ROR**

<https://ror.org/05k73zm37>

## **Funder(s)**

### **Funder type**

Government

### **Funder Name**

The Academy of Finland (Finland) (ref: 207384)

### **Funder Name**

The Jalmari and Rauha Ahokas Foundation (Finland)

**Funder Name**

The Finnish Cultural Foundation Uusimaa Regional Fund (Finland)

**Funder Name**

The Hospital District of Helsinki and Uusimaa (Finland)

**Funder Name**

The Pirkanmaa Hospital District (Finland)

## Results and Publications

### Individual participant data (IPD) sharing plan

#### IPD sharing plan summary

Not provided at time of registration

#### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>	results	01/06/2012		Yes	No
<a href="#">Study website</a>	Study website	11/11/2025	11/11/2025	No	Yes