



Funded by the European Commission's Seventh Framework Programme FP7-HEALTH-2012-INNOVATION-1/No 306058

The impact of web-based services in supporting family carers of older people: *Results from a multicentre pilot study*



Nka

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Contents

- The InformCare platform
 A web prototype addressing informal carers
- 2. Methodology Pilot test in three countries
- General results
 Preliminary findings from the study
- 4. Discussion

Main benefits and challenges







1. THE INFORMCARE PLATFORM

Evidence from current practice allows identifying some specific types of effective **interactive** web-based services:

- individual support by health professionals to carers (via e-mail, audio or video communication);
- structured group support (via video-conferencing group sessions with a moderator);
- unstructured group support (via on-line groups or fora);
- social participation tools for interacting with other carers and significant others (via social networks and other tools).







Current gaps in EU context

However:

- many initiatives in Europe are small-scale projects and low-funded services, with a limited geographical coverage (Schmidt et al., 2011): availability of and accessibility to web-based services are guaranteed only to few people;
- many countries in Europe experience (a) a low penetration of low-cost broadband internet connection and/or (b) a small (or even no) cultural and social recognition of carers' role (like in Mediterranean and Eastern European areas).







The INNOVAGE WP3 project





A new multilingual platform in EU-27

- The overall goal of INNOVAGE WP3 is to contribute to improving the quality of life of informal carers of older people in Europe, by developing an integrated set of web-based, multilingual support services, to address main carers' needs in an adequate and effective manner.
- The specific objectives of WP3 are (1) to <u>develop</u>, (2) <u>test</u>
 (3) <u>implement</u> and (4) <u>disseminate</u> in the EU-27 the web platform with an integrated package of basic services.
- Services: information resources and interactive services









InformCare: home page

Coping with caregiving

Being a carer sometimes makes it difficult to take care of yourself. Priorities are changing disease condition progresses and looking after yourself takes usually last place on a long list of heavy duties. Caring for a loved one burit an easy task, but it is important to understand the value of being a carer and living well...

More >

Family reconciliation

When you are a carer, sometimes you find yourself in a position where you try to combine different family roles: as a parent, as a spouse, as a child and as carer. Reconclitation between family relationships and caregiving is a difficult task.

More >

Work reconciliation

Working while caring isn't an usay task. Employers and fellow employees might just not get it! Trying to be on time with work tasks and to be also a devoted carer generates stress, not always easy to manage. A key factor to reconciliate work and care is in raise awareness among your colleagues and employers...

More >

About the platform



Innovage Project

ENNOVAGE is a three year project dedicated to social innovations which support active and healthy agoing. The project will develop and test, as well as survey and catalogue, social innovation that will have a solid



Video



Help! Technical support



Coping with caregiving

Being a carer sometimes makes it difficult to take care of yourself. Priorities are changing disease condition progresses and looking after yourself takes usually last place on a long list of heavy duties. Caring for a loved one isn't an easy task, but it is important to understand the value of being a carer and living well...

More >



InformCare: internal page on 'Dementia'

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EUROPE	AN ASSOCIATION ING FOR CARERS			Search Q
Caring for older people	Your own needs	Support by the state	Get help	

Dementia

Carers

Caring for older people >

Impairments and care

management >

Dementia

Parkinson's

Stroke

Arthritis

Osteoporosis

Conditions of the Eyes

Deafness

Diabetes

Hypertension

Bedsores

Urinary Incontinence

Care and support services >

This section is devoted to Pathologies of older people and care management.

Information on a number of conditions is provided.

You may visit each page by clicking on boxes below or by clicking on your left side list.

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Symptoms of Al zheimer's

Alzheimer's

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or Dementia?

Prevention of D

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Caring at a dist

Dementia in numbers

Dementia affects 8% of people over 6S years, a percentage that increases significantly with age, as highlighted by a significant number of surveys. It is estimated that if people lived until the age of 95, then one out of two would suffer from some type of Dementia.

Home / Carers / Caring for older people / Impairments and care management /

Dementia

It is estimated that 44 million cases are suffering from dementia worldwide and 10 million in Europe. It is estimated that this percentage will rise to 104 million worldwide, while the proportion of people over 65 years old in Europe accounts for 35% of the general population.

What is Dementia?

The term "Dementia" refers to a group of symptoms that appears to people with conditions which destroy brain cells and cause a gradual deterioration of cognitive abilities. People suffering from types of dementia, actually means that memory, attention, judgment, speech, behaviour are affected.

In order to Dementia to be officially diagnosed, cognitive symptoms should represent a significant loss of previous level of functioning in everyday life.

Risk factors of

Behavioural an d Psychological symptoms (BPS

Is there a cure f

ementia

🛃 1 Notifica 💽 Profilo 🙀 Impostazioni 🗶 Esci

Benjamir ×

Arianna X

Andrea X

Cerca



Servizi Interattivi

<< Torna alla homepage

Social Network

Messaggi (1)

den på länken nedan.

ggi (1) Chat

Video Chat

Forum

Ciao Francesco Barbabella!



4 Members Online



💡 Vedi A	ggiornamenti 同 Profilo 🥜 Modifica Profilo 🔍 Cerca Iscritti
òsa c	'è di nuovo
Pubbli	ca Qualcosa
	Arianna Poli Ecco un articolo su Porte Aperte all'INRCA!
	Una folla di visitatori per conoscere l'Inrca ANCONA - La pioggia notturna non ha fermato l'iniziativa 'Porte aperte all'Inrca' - oggi entrata nel vivo - tesa a far conoscere e visitare le tre sedi di Ancona della storica
	mar alle 11.21 - Mi piace - Commenta - Rimuovi - Condividi
	Arianna Poli Buongiorno a tutti! :) mar alle 11.00 - Mi piace - Commenta - Rimuovi
	Frida Andreasson Jag fick ett tips om en dokumentärserie som startar på svt kanal 1

ikväll vid 21.00 om medberoende. Verkar mycket intressant. Ni kan gå in och läsa om

Cristina X

Cinzia

X

Novità

Il 31/07 si è conclusa la fase di sperimentazione della piattaforma INNOVAGE. Da oggi saremo impegnati a migliorarla alla luce di ciò che è emerso ed emergerà grazie al tuo contributo. A questo proposito, ti chiediamo un ultimo aiuto alla nostra ricerca: compilare il Questionario finale. Basta cliccare sulmenù principale della pagina iniziale della piattaforma sulla voce 'Questionario' (evidenziata in azzurro, in alto a destra). Ti ringraziamo sin d'ora per il tuo contributo. I seguenti Servizi Interattivi, inoltre, non saranno più disponibili da Agosto in poi: il Corso Caregiver e gli spazi di ascolto delle psicologhe Silvia Valenza e Cinzia Giuli. Cambia anche la reperibilità della psicologa Arianna Poli, disponibile da oggi tutti i

Amici Online (2)

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2. METHODS

Study design

- Research design: one-group pretest-posttest study
- Intervention duration: 17 weeks (Apr-Jul 2014)
- Country settings: Italy, Germany, Sweden
- Sampling design: convenience sample approach
- Sample size: 118 carers
- Research questions:
 - Are these new web-based services user-friendly, perceived as useful and appropriate by informal carers?
 - Do these new web-based services have a **positive impact** on informal carers' perceived health, quality of life, social support, and their role as carers?





Measures

Dimensions related to the cared-for older person (with the carer as a proxy):

- 1. Demographic and background characteristics (only T0);
- Level of *dependency* of the older person: Barthel index (10 items) (ADLs) and Duke OARS (6 items) (IADLs) (only T0);
- 3. Health needs and problems of the older person (T0, partly also at T1).

Dimensions related to the carer:

- 1. Demographic and background characteristics (only T0);
- 2. Health status of the carer: part of Minimum European Health Module (T0 + T1);
- 3. Quality of life of the carer: WHO-5 Well-being index (5 items) (T0 + T1);
- 4. Self-perception of *carer's role*: COPE index (15 items) (T0 + T1);
- 5. Social support perceived by the carer: MSPSS (12 items) (T0 + T1);
- Virtual social support perceived by the carer: Perceived Virtual Social Support Scale (22 items) (only T1);
- 7. Usability of web services: WAMMI (20 items) (only T1);
- 8. Usefulness and appropriateness of the services(only T1);
- 9. Navigation patterns through the platform: Google Analytics (T0-T1).

Focus groups were organised with 6-7 users in each country at the end of the intervention.

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3. GENERAL RESULTS preliminary analysis

Who are the <u>older people</u> in need?

	Total	Italy	Germany	Sweden
Older person				
Gender: woman	62.0%	78.6%	65.0%	40.0%
Age	79.3%	81.6	76.8	77.5
IADL	3.9 (2.2)	3.7 (2.2)	4.9 (1.9)	3.6 (2.2)
ADL	11.8 (6.6)	13.7 (5.5)	5.3 (6.1)	12.1 (6.6)
Memory problems: yes	79.0%	89.8%	80.0%	64.4%
Behavioural problems: yes	77.4%	94.9%	50.0%	66.7%

Who are their <u>carers (in need)?</u>

	Total	Italy	Germany	Sweden
Carer				
Gender: woman	70.8%	69.6%	60.0%	77.3%
Age	58.5 (11.5)	53.1 (10.2)	60.6 (9.0)	64.7 (10.8)
Relationship with elderly:				
Spouse/Partner	30.6%	3.5%	26.3%	66.7%
Children/Children-in-law	61.2%	84.2%	57.9%	33.3%
Other	8.3%	12.3%	15.8%	0.0%
Children: <i>yes</i>	77.5%	78.6%	65.0%	81.8%
Grandchildren: yes	35.5%	22.8%	20.0%	59.1%
Education				
Low (up to lower secondary school)	18,3%	28,1%	15,8%	6,8%
Medium (upper secondary school)	37,5%	56,1%	26,3%	18,2%
High (post-secondary, tertiary education)	44,2%	15,8%	57,9%	75,0%
Employment: yes	52.1%	62.5%	31.6%	47.7%





Carers' confidence with internet



Usage of the platform /1

- 76% of the initial sample accessed at least once
- The level of access varies across countries (% on users accessed):

	Total	Italy	Germany	Sweden
Level of access:				
Low (1-5 accesses)	54.9%	73.8%	38.9%	42.9%
Medium (6-11 accesses)	18.6%	21.4%	22.2%	14.3%
High (12+ accesses)	26.5%	4.8%	38.9%	42.9%

- average **number of days of visits**: 5 in Italy 23 in Germany
- time spent in the platform: Italian users staid connected less than 3 hours, German and Swedish more than 7.5 hours

SOCIAL INNOVATIONS PROMOTING ACT





Usage of the platform /2

- Most success was obtained by the social network, and to a less extent by forum.
- Private messages were a major communication channel in Sweden (over 70% of users sent or replied to messages) and used also in Italy and Germany.
- Chat and videochat were the least used services.
- However, most users preferred a **passive use** of services.









- After the intervention, users expressed generally lower values of administrated scales for impact, in particular in COPE quality and MSPSS social support sub-scales.
- We can interpret this result considering that the platform had a role in **increasing personal awareness** of carers' role, making them reflect on their actual needs and lack of support (previously unrecognised).

	Baseline (T0)	After the intervention (T1)	p-value
COPE negative	21,11 ± 4,1	20,68 ± 4,2	0,143
COPE positive	12,62 ± 2,2	12,2 ± 2	0,062
COPE quality	10,4 ± 2,8	9,85 ± 2,6	0,032
MSPSS family	20,95 ± 5,7	19,99 ± 6	0,057
MSPSS friends	17,86 ± 6	17,36 ± 6,1	0,363
MSPSS social support	21,82 ± 5,7	21,06 ± 5,5	0,039
WHO5 quality of life	11,25 ± 6,1	11 ± 5,8	0,653

Note: N= 80 (subjects that used the platform during the pilot); Mean ± SD; Paired sample T-test

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Usefulness, adequateness and usability

- Overall, the majority of carers (over 80%) thought it is quite or totally useful for addressing their needs at present or in the future.
- There was consensus in all the three countries concerning the adequateness of **information and support provided** from project staff for use the platform.
- Generally speaking, scores of **global usability** were satisfactory, even if the Swedish sample was more critic concerning some aspects like helpfulness and efficiency.
- This can be related to the occurrence of some **technical problems** during the intervention, affecting especially Swedish and Italian users (in a quarter and a fifth of cases, respectively).



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4. DISCUSSION

Main benefits

- Self-empowerment and awareness concerning carers' role
- Possibility to receive reliable information, advice and counselling
- Access to a **flexible tool** available whenever they need
- Sense of **solidarity** and **mutual learning** from each other experiences
- Platform felt as a **safe virtual environment**
- Acceptable level of **usability**



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Main challenges

- Low digital level of many carers: need for training and continuous support
- **Passive behaviour in the platform**: need for carrying on adequate stimulation strategies
- Low (or none) cultural and social recognition of their role: need to improve self-awareness of what means being a carer and let their needs emerge
- Technical problems: need for constant technical support, also in relation to compatibility with different operative systems and devices
- Limitations of research: need for further in-depth research beyond a pilot intervention









Thank you for your attention!



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