Takahashi Y, Uchida C, Miyaki K, Sakai M, Shimbo T, Nakayama T Potential Benefits and Harms of a Peer Support Social Network Service on the Internet for People With Depressive Tendencies: Qualitative Content Analysis and Social Network Analysis J Med Internet Res 2009;11(3):e29

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Multimedia Appendix 1 - Page 1 of 2 pages

## Mutlimedia Appendix 1: Glossary of terms used in the article

Social Network Service A SNS is a Web 2.0 application that is an Internet-based service for building online

social networks to allow individuals to share interests and activities, e.g. MySpace or (SNS)

Facebook.

"Friends" "Friends" are online friends whose profiles are featured as links on one's own profile

in the SNS.

"Communities" "Communities" are online communities for people with similar interests or activities

in the SNS.

Measures used in the

scale

study

Zung Self-rating The depression scale is a validated self-rating scale to assess depressive state. It

Depression Scale ranges from 20 (no depression) to 80 (major depression), and was categorized as

follows: not depression (-39), mild depression (40-47), moderate depression (48-55),

and severe depression (56-)

The numerical scale ranged from 0 (no pain) to 10 (worst possible pain), which is Numerical rating

usually used to assess present pain intensity. In this study, it ranged from 0 (good

mood) to 10 (bad mood), which was used to measure mood state in the following

three situations: (1) during normal time (time not using the SNS or the Internet), (2)

while using the Internet, and (3) while using the SNS.

Positive assessment Items related to outcomes in the assessment of SNSs were evaluated by the question,

"Do you think you became more positive to depression compared to before / not positive

assessment participating in the SNS?" Response choices were: "much more positive," "more

> positive," "no change," or "more negative." "Much more positive" and "more positive" were classified as "positive assessment", and the other responses were

classified as "not-positive assessment."

Social network analysis is the study of social structure that provides a means to Social network analysis

> quantitatively explore social relationships between people. Commonly used by sociologists, its use in health-related fields is increasing as an effective approach for

research centered on describing, exploring, and understanding relational aspects of

health.

Social network A social network is a social structure made of individuals who are linked together by Takahashi Y, Uchida C, Miyaki K, Sakai M, Shimbo T, Nakayama T Potential Benefits and Harms of a Peer Support Social Network Service on the Internet for People With Depressive Tendencies: Qualitative Content Analysis and Social Network Analysis J Med Internet Res 2009;11(3):e29

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Multimedia Appendix 1 - Page 2 of 2 pages

social relationships. In this study, the structure of participants in the SNS who are linked together by the relationship of "friends" was regarded as a social network.

Centrality is an index of importance or prominence of individuals in a social network.

There are several types of centrality: degree centrality, closeness centrality, and

betweenness centrality.

Degree Degree is the sum of individuals who are linked together; people with a higher degree

centrality have more "friends."

Closeness is the distance between individuals; people with a higher closeness

centrality are able to reach others more easily or directly.

Betweenness Betweenness is the number of times an individual connects pairs of others; people

with high betweenness centrality are able to play a gatekeeper role, controlling the

flow of resources in the network.

Clique A clique is a group which included three or more individuals connected by all

possible connections. All people in a clique directly connected to one another as

"friends."

Mixed methods Mixed methods research combines elements from both quantitative and qualitative

paradigms to produce converging findings in the context of complex research

questions. In this study, "mixed methods" included statistical analysis, qualitative

content analysis and social network analysis.

Qualitative method

Centrality

Grounded theory Grounded theory is a systematic qualitative research method to generate theories

regarding social phenomena, which was developed by Glaser and Strauss.

Concepts Concepts are collections of codes of similar content that allows the data to be

grouped.

Categories Categories are broad groups of similar concepts that are used to generate a story line

or a theory.