Slovenia: difficulties and strengths of psychiatric research in a small country

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With a population of nearly 2 000 000 and an area of about 20 000 km², Slovenia is a heterogeneous European country that extends from the Mediterranean Sea to the Alps. Slovenian political history dates back to the 6th century, when the first free principality of the ancient Slovenians was established – Carantania – famous for its democratic institutions, legal system, popular elections of dukes and progressive legal rights for women. From the 13th century until 1918, Slovenians were ruled by the Habsburgs. After 1918, Slovenia became a part of Yugoslavia and again enjoyed a considerable degree of autonomy. But as the political and economic crisis of Yugoslavia worsened, at the plebiscite in December 1990 87% of the voting population voted in favour of sovereignty. Thus, Slovenia declared its independence on 25 June 1991, and became a member of the United Nations in May 1992. Until the Second World War the psychiatric tradition in Slovenia was German. Afterwards, the Anglo-Saxon tradition has gradually entered Slovene psychiatry.

Doing research in a small country like Slovenia, which is additionally in transition from a socialist to a liberal capitalist system, has its own characteristics, which may seem somewhat peculiar to an external observer. The main problem is that research resources are limited. This applies not only to financial resources but even more so to personnel. The number of researchers is relatively low and these usually cannot specialise in only one research field. They have to deal with several research projects, which are often barely related to each other. This dissipation of research energy in numerous projects is clearly a disadvantage since it is not easy to follow the current scientific literature in a number of fields. Therefore, researchers have to invest much greater efforts in preparing research proposals and conducting the projects. The same applies to other activities, such as teaching, supervising younger researchers, reviewing national research proposals and papers. Because of the shortage of personnel there are almost no full-time researchers in psychiatry. Researchers have to do clinical work to the same extent as other non-research-oriented mental health professionals.

On the other hand, there are also some advantages of working in a small country. One of them is the possibility of almost complete follow-up of patients. There are only six psychiatric hospitals, which are unevenly located in different geographical areas, and most clinical staff know at least one of the clinical team in the other hospitals. Therefore, exchange of information is usually very good, including the acquisition of copies of medical records from other institutions in order to complete a follow-up.

WORK PERFORMED AND ONGOING

Our research group at the University Psychiatric Hospital in Ljubljana is the leading scientific group in clinical psychiatry in Slovenia. Being well connected with the Institute of Public Health of the Republic of Slovenia in terms of projects and shared staff, we also cover the increasingly important field of public mental health. In other words, our work and plans are highly representative of what is going on in psychiatric research in Slovenia.

In the past 10 years the group has been mainly dealing with research into suicidal behaviour and other public mental health indicators, psychiatric services research, neuropsychological and neurocognitive studies, management of violence and other clinical studies.

Psychiatric services research

This research has quite an extensive background and is a clear example of a multi-dimensional approach. One of the first studies investigated the rehospitalisation rate in schizophrenia, which was comparable to that in other countries (around 25% per year) despite large differences in the organisation of health care (Tavcar & Dernovsek, 1997). Another study explored the prescription of antipsychotics for in-patients with schizophrenia. The authors built two multivariate models with predictors of prescribing depot v. oral typical antipsychotics and atypical v. typical antipsychotics (Tavcar et al, 2000). The research group also studied predictors of compliance in schizophrenia and challenged the popular belief that non-compliance is associated with the unpleasant (mostly extrapyramidal) adverse effects of typical antipsychotics (Novak-Grubic & Tavcar, 2002). A very thorough 1-year follow-up study explored the quality of life and treatment costs in patients with schizophrenia treated with depot antipsychotics (Dernovsek et al, 2001). The study showed that the ‘older’ depot antipsychotics still have their role in treatment (with relatively low rehospitalisation rates) and that medication costs are only a minor part of treatment costs (rehospitalisations of only 15% of patients accounted for almost 30% of all costs).

Use of seclusion and restraint in the management of violence

This is a newer research field, which only recently attracted more attention, but we are proud of the way it has been carried out, which enabled immediate and extensive clinical utilisation of the research findings. First, the problem was identified by clinical staff, then the researchers investigated it in detail and finally national guidelines were drawn up according to research findings and the current literature (Tavcar et al, 2002). In this case, very good cooperation was established with the European Violence in Psychiatry Research Group and some results were presented at major international meetings.

Neuropsychological and neurocognitive studies

A significant contribution of our research group to this evolving field was presented in one research paper, which attracted more than 20 citations and is believed to be one of the fundamental studies on cognitive processes in schizophrenia (Mlakar et al, 1994). Current research in this field is directed towards further exploration of cognitive functions (meta-representations of various hierarchies) and the origins of
negative symptoms in schizophrenia. Our future goal is to develop and standardise a clinically useful instrument for delineating primary and secondary negative syndromes in schizophrenia.

Suicidal behaviour

Since Slovenia has a very high suicide rate (around 30 per 100,000 inhabitants per year) for decades, it is not surprising that there is a long tradition of suicidology research. One of the first and most complete suicide registries in Europe was established more than 30 years ago by Professor Milcinski, who did a lot of epidemiological work in this field. Because of changes in legislation (increased data protection standards limit obtaining the relevant data) the importance of the Slovene suicide registry has diminished over the past 5 years. This has led to a shift in suicide research towards more specific and well-defined questions. One of them is research on in-patient suicides, which resulted in two frequently cited publications. The first paper (Steblaj et al, 1999) reports the predictors of in-patient suicide, with special attention to unrecognised depression in patients with schizophrenia. The other report (Marusic et al, 2002) investigated the differences between in-patient suicides and suicides in the community. Other studies dealt with suicides in some specific groups, such as the young and the elderly (Marusic et al, 2003), and among patients with alcohol-related mental disorders.

Since our group is affiliated with a tertiary psychiatric hospital, we have access to the most complicated cases of mental disorder. In addition, our hospital is the only Slovene institution with legal authorisation for off-label use of psychotropic medication and clinical trials of non-licensed drugs. From this clinical material several unusual case reports have been published in the national and international scientific literature (Dernovsek & Tavcar, 1997). In a way, this is our contribution to the permanent education of psychiatrists.

NEW INITIATIVES AND CHALLENGES FOR THE FUTURE

In future, several new projects will start. A neuroimaging study is aiming to elucidate the importance of suspected minor brain damage for impulsivity and suicidal behaviour in patients with alcohol dependence. In the field of violence research, three current multi-disciplinary studies are ongoing, one of them sponsored by the Slovene Ministry of Education, Science and Sports. Furthermore, Slovenia was appointed host of the spring 2003 meeting of the European Violence in Psychiatry Research Group. This meeting will further improve implementation of research results in practice. To share results and experiences in the above-mentioned research fields we would like to invite and encourage international researchers to mutually beneficial collaborations.

CONCLUSIONS

The Slovene experience shows that research is important also in small communities because it further develops the skills of health care professionals, serves as a motivation for updating their knowledge, enhances contacts and prevents the type of nihilism that may arise from comparisons with different, more developed countries.

REFERENCES


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