The specific problems of consent for the mentally incompetent are reviewed. Scientific research is essential to test the validity of present treatments and to develop new ones. The respective roles of the physician and the researcher have to be clearly defined. The vulnerability of psychiatric patients has to be taken into consideration in such a way that some research can be conducted. It is emphasised that the ethical restrictions for research, although highly justified and necessary, are in part responsible for the relatively slow progress in the application of modern neurosciences to psychiatric diseases.

The problem of reconciling ethical principles with the requirements of research in mentally incompetent persons is a very delicate one. Basically, the protection of patients who do not have full capacity of discernment is, and must be, highly respected. History has made us aware of the scandalous character of abuses in that respect. On the other hand, progress in understanding the mechanisms of mental diseases and in developing rational treatments require that investigations be made possible in such patients. This matter will be discussed here. It should be noted, however, that beside the ethical aspects of the problem, which are common to a given culture if not universal, this matter raises legal aspects that vary from country to country. The legal aspects we examine here are limited to the situation prevailing in Switzerland.

SPECIFICITY OF THE PSYCHIATRIC PATIENT WITH RESPECT TO ETHICAL ASPECTS IN MEDICINE

On one hand, at the level of society, it is of high ethical value to make use of scientific knowledge to improve health and thus quality of life. Successful biomedical research leads to progress from which everybody might benefit one day as potential patients. On the other hand, the interests of the individual have to be valued more highly than those of science and society. Many years ago the Hippocratic Oath expressed the idea that the physician should avoid anything that could be detrimental to the patient. This paternalistic approach implies that only the physician knows what is good for a patient, who assumes here a purely passive role. But, more recently, the idea was promoted that the subject involved in a research project is also an "autonomous" human being, possessing all fundamental rights and deserving full respect. Thus, there has been a rather drastic change in the conception of the patient/physician relationship, moving toward a real partnership.

At the same time, there is a requirement that the scientific validity of treatments is guaranteed in order to improve the condition of people affected by mental dysfunction. This scientific control of the efficacy and harmlessness of the proposed treatments is indispensable, and for that reason requires research, although it is estimated that only 15% of medical acts rest on solid scientific bases. The conditions necessary for research which will be respectful of ethical principles have been defined in the Nuremberg Code (1947): "The voluntary consent of the human subject is absolutely essential". Interestingly, this code was preceded by the ethical rules of the Weimar government in the thirties, but we know how much the Nazi regime transgressed them later.

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of peoples agreed with the principles of one experiment, para-
doxically, 70% refused their participation. One should also be
aware of the fact that a systematic refusal to participate in a
research programme introduces a selection bias that might
have some importance, particularly in psychiatric research: con-
cclusions on paranoia cannot be drawn if in a study most
paranoid schizophrenic patients refuse their participation.

There are, however, situations in which informed consent
cannot be obtained or where it is difficult to obtain, for
instance from persons incapable of discernment such as
minors, mentally incompetent people, and patients suffering
from a possibly transitory loss of consciousness (coma). In the
case of psychiatric patients, one should remember that mental
illness does not, as such, deprive the patient of the ability to
judge, and thus to decide on his consent. Individual
adjustments are required depending on the situation. There
are also other groups of persons whose capacity to give
consent raises problems, “vulnerable” people who are easy to
manipulate, such as inhabitants of developing countries (hav-
ing little information on scientific matters), and immigrants
joining industrial countries (who do not know much about
the language and culture of their new environment).

One comment should also be made on the international
aspect of the impact of ethics on research. As a rule, rich,
developed countries tend to apply ethical principles rigorously;
while less developed countries tend to be more flexible. Taking
advantage of this flexibility to perform research that would
not be approved in a more stringent country is ethically and
scientifically unacceptable: rigorous ethical principles have to
be implemented universally, and scientific investigations have
to adhere to the same standards everywhere.

It is, however, necessary to establish rules allowing the sci-
entists to develop research without being in contradiction
with the protection of “vulnerable” populations. For a few
decades now, scientists and ethicists have attempted to find a
compromise between these two legitimate interests. At
present, the debate is wide open and the legislation very
different from country to country. For example, in Switzer-
land, the conditions of research without consent must follow
the guidelines laid down by OICM.

- Expected benefits are important and the risks minimal
- Research is impossible otherwise; one has to make sure that
  the subject is really unable to give his consent
- Ask for consent as soon as possible
- Review of the project by an independent body, such as an
  ethical committee
- In all cases, the point of view of the subject cannot be
  ignored, even if he is mentally incompetent
- His wishes have to be respected if he express his intent of
  refusing participation

In case of incompetence, the following substitutes have to give
consent:
- The patient himself (before or after the event)
- A deputy designated in advance
- The legal representative

THE NEED FOR PROGRESS IN BIOLOGICAL
RESEARCH ON PSYCHIATRIC DISEASES

Compared to most somatic diseases, where the understanding
of causes and rational treatments have made important
progress over the last century, psychiatric diseases are behind
as far as biological approaches are concerned. There are mul-
tiple and complex reasons for this delay. The inherent
complexity of the nervous system made the task of analysing
its biological mechanisms more difficult, thus requiring more
time than for other systems of the body. On the other hand,
the religious and philosophical background of Western culture
emphasised the “mind” aspect of psychopathology rather than
its “body” side. Thus, in the absence or insufficiency of
biological hypotheses, therapies based on the psychological
and psychoanalytical approaches were developed first and
have shown their usefulness. When drugs were discovered
which had a favourable effect on mental diseases, this was
usually as a result of chance discoveries. The effectiveness
of neuroleptics in improving the symptoms of schizophrenia led
to very useful psychopharmacological research based on the
mode of action of these compounds, but did little to stimulate
basic research on the pathophysiology of the disease.

During the 20th century, research aimed at a biological
understanding of the nervous system made remarkable
progress. As an interdisciplinary field of research, the
neurosciences became mature at the genetic, molecular, cellu-
lar, and systemic levels. This new building of knowledge, con-
cepts, and data should allow a biological approach to some of
the major mental diseases, such as schizophrenia, affective
disorders, or addictions. Investigations in humans are
nowadays particularly attractive, thanks to the development
of human genetics, genomics, and proteomics, on the one
hand, and, on the other, of non-invasive techniques such as
positron emission tomography (PET), functional magnetic
resonance imaging (fMRI), and magnetic resonance spectro-
copy (MRS). These developments, based on basic neuro-
sciences and combined with modern cognitive methodologies,
should open the way to a renaissance of biological research in
psychiatry. Unfortunately, although there are some remarkable excep-
tions, interactions between psychiatrists and basic neuro-
scientists are rather limited, and are often characterised by
mutual ignorance. In this situation, ethical arguments,
valuable as they are, can appear to be used as an excuse to
prevent research that would be considered quite acceptable in
somatic medicine. For example, a lumbar puncture for collec-
tion of cerebrospinal fluid (CSF) is a medical intervention
considered as relatively minor by neurologists, while psychia-
trists are very reluctant to perform it. One of us has experi-
enced difficulties over a number of years in convincing
psychiatrists to collect CSF for a research project, from
patients whose diagnosis showed they were clearly schizo-
phrenic. The psychiatrists argued that it was not to the benefit
of the individual patient. In the end, a colleague at the Max
Planck Institute for Psychiatry in Munich made available to us
CSF from untreated patients and the analysis of this material
allowed us to identify a deficit in glutathione that opened new
and promising research on the biological risk factors of this
disease. In conclusion, it seems to us that one should actively
develop ways toward a harmonious compromise between a
rigorous respect for individual rights and considerations of the
urgent need for basic research on the neurobiology of psychi-
atrie diseases, which, in the long run, will benefit a very large
number of patients.

As Gunn and Taylor point out: “The most serious weakness in
the current system of testing the morality of research is that
there is no organisation anywhere looking at the morality of
not doing research. Unanswered questions can and do leave
patients in pain or with shortened life span”.

DISCUSSION

Professor Michael Orme picked up on a point made about the
developing world being more flexible in this area. He said that,
in his experience, individuals do not always give consent for
research. You may need to explain at length to the chief of the
people concerned your objectives and what is involved. He will
then give consent on behalf of his people. What is ethical
varies from culture to culture.

Alistair Kent from the Genetic Interest Group spoke from his
experience of working with the families of people with
inherited learning difficulties. Overwhelmingly, they are in favour of research and comment that they find it frustrating that others take the moral high ground and say that it is wrong to carry out research on those with profound learning difficulties. Michel Cuenod agreed that, often, it is the community of psychiatrists, not the patients or their families, who deem research unethical and prevent it.

John Harris said he did not think it ethical to do research if the village chief had given consent on everyone’s behalf. He went on to ask if consent was really freely given where patients had been detained under the Mental Health Act. Was such consent free? Michel Cuenod said that the same might apply to any psychiatric research carried out in hospitals or prisons. Power should never be used to carry out research.

Peter Lachmann recalled the experiments on hepatitis infection performed by Saul Krugman and his colleagues at Willowbrook State School in New York as an example of research carried out on retarded children. Children entering this residential school were infected with hepatitis on the reasoning that they would certainly become exposed there anyway. The research succeeded in distinguishing Hepatitis A and B and played an important part in the development of the plasmabased vaccine for hepatitis B. In the process things were done that we would condemn today: carrying out research, without what would now be regarded as acceptable consent, on a vulnerable group of children; and deliberately exposing them to infection. Dr Krugman has been both condemned for doing this work and applauded for the importance to medicine of the results he achieved. Did the end justify the means?

REFERENCES