The new Unit was established on November the 1st 1996. Years of work and planning by the Danish Data Archives finally led to its formation half a year ago. Sadly the initiator, the director of the Danish Data Archives, Per Nielsen, died less than two months after its formation.

The purpose of the Unit is to strengthen the registration and storage of medical research data in Denmark. The new Unit will provide a professional storage function to the medical research community and promote access to collections of medical research data for secondary analysis. The Unit is established as a 5-year collaboration project between the Danish National Research Foundation and the Danish Data Archives.

In an effort to strengthen the research development capabilities in Denmark, the Danish National Research Foundation was established in 1991. Since its formation the foundation has worked to improve the conditions for research development in Denmark in the entire scientific landscape. This is achieved by giving large and concentrated grants to unique Danish research at the international level. Several new projects have thus been started, the establishment of the Danish Unit for Registration and Storage of Medical Research data being one of the most recent. Denmark has a unique tradition for keeping and maintaining population based registers, which places the new Unit in an almost ideal environment for developing a professional archive for medical research data.

The Unit is physically located at the Danish Data Archives, as a fully integrated part of the institution. The acquisition, processing and subsequent storing of medical research data closely follows the principles already developed at the Danish Data Archives. A simple copying of the existing routines is not enough though, as the, at times, different nature and sheer volume of medical research data dictates the development of new and refinement of existing routines.

Since its establishment in 1973, the Danish Data Archives have collected data and documentation from social science and historic studies, and until now the institution has concentrated its efforts on these areas of research.

Consequently medical research studies constitutes only a small fraction, about 6% of the total contents, primarily in the form of social medicine and occupational health studies.

About 8000 articles are published every year by Danish medical researchers. Although not all of these articles represent a separate research study, even a conservative estimate of 2 articles per study gives a yearly volume of 4000 studies. Add to this a considerable backlog of old studies and you begin to realize the magnitude of the task. This necessitates the development of new, timesaving procedures for registration and storage of data and documentation. An important consideration in the development work is to ensure that the high quality of registration and storage of data and documentation already attained at the Danish Data Archives is preserved.

The staff of the Unit at present consists of 3 persons:

The project leader, medical doctor and Ph.D. Kirsten Kyvik, who also is a member of the management group for the Danish Twin Register, senior researcher, medical doctor and specialist in community medicine and occupational health, Peter Heine Jorgensen and informatics assistant, Birgit Wich.

It is the first time that medical staff has been employed at the Danish Data Archives and indeed at the Danish State Archives. The reason of course being inherent in the nature of the project. The logic being that a medical staff is best suited to deal with medical research data and documentation. Furthermore it is expected that this will counteract any reluctance or mistrust on the part of the donor of the medical research data. The employment of medical doctors in the staff also solves the confidentiality issue often associated with handling medical research data.

Another task presents itself to the Unit regarding confidentiality. The data may contain sensitive, identifiable information about the persons in the study base.

The Danish Data Protection Agency under the Danish Justice Department controls and regulates the legal aspects of data storage. The Agency has granted the Unit permission...
to store sensitive data from medical research. Furthermore permission to release the original data and documentation to the donors is given. Thus the primary researchers are able to continue their study on the same study base, even years after completion of the first study. Naturally other researchers will only have access to the data in an anonymous form. The Unit is at present engaged in an effort to persuade the Data Protection Agency to accept that storage at the Unit can be regarded as being equal to deletion. It is hoped that this can be stipulated in the standard agreement made between the Agency and the medical researchers.

The target of the Unit is medical research in Denmark and existing as well as coming Danish medical researchers. A broad acceptance and support from the medical research community is instrumental in achieving a successful result, i.e. the creation of professional archives for medical research data. Consequently the initial action will focus on information and dialog. Agreement regarding submission of research data to the new unit will be investigated in accordance with the Danish medical research community.

The scope of the Danish Unit for Registration and Storage of Medical Research Data is to assist researchers and research institutions in making data and documentation from studies readily available. The new Unit will perform its own research and development with the purpose of making the new archive as well functioning as possible, thus facilitating secondary analysis. The possibility of new crosslinks between the existing social science and historic data and the new medical research data represents a unique opportunity to perform secondary analysis bridging several major research fields.

The Units field of activity is at present confined to Danish medical research, but the findings could have an international bearing as the principles and procedures of the fully established Unit could be implemented in other countries. A more concerted implementation could be possible in the framework of the European Union.

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