

What is a biobank?

Biobanks...

- ❖ Store biological samples such as human blood or tissue.
- ❖ Store a patient's medical records along with their samples.
- ❖ Provide samples and medical records to scientists to conduct medical research.
- ❖ Keep samples and information for many years so research can be done on them well into the future.
- ❖ Can be thought of as a library that researchers have special permission to go to and check out biological samples for research purposes.



Examples of research...

Genetic Research

DNA from cancer tissue → Study the genetics of cancer

Blood samples → Study the genetics of bipolar disorder and schizophrenia

Other Research

Urine sample → Improve diabetes management

Culture from infected wound → Study the bacteria that cause infection

Approval for Use of Biological Samples

Hospital Research Review Board



Option #1

**Participant Gives Blanket
Permission for All Research**

Present → Future

In addition to the hospital research review board, an advisory board may also assist with reviewing the research.



Approval for Use of Biological Samples

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Option #2

**Participant Chooses From a
“Menu” of Possible Research
Uses**

Participant receives list of possible research uses and provides approval for specific types of studies he/she believes are acceptable.



Approval for Use of Biological Samples

Hospital Research Review Board

Option #3

Participant Contacted Prior to EACH Study

Approval given on a case-by-case basis.



Identified vs. De-identified Information

The image displays two screenshots of a medical software interface, likely a patient management system. The top screenshot shows a patient's full details, including name, birth date, insurance, and contact information. The bottom screenshot shows the same patient's information with key fields redacted (blacked out) to represent de-identified data.

File #	Patient Name	Mobile	Date of Birth	City	Email
00001	Mr. Mark S. Gali	0988493	December 08, 1995	Dubai	Mark@hmail.com
00002	Mrs. Cindy W. Fong	56286240	April 18, 1974	Abu Dhabi	Cindy@yahoo.com
00003	Mr. Ravinder W. Das	0104254356	January 14, 1970	Dubai	Das23@yahoo.com
00004	Mr. Albert H. James	01076780587	September 14, 1962	Dubai	Alk1kian@hotmail.com

Handling Identifying Information...

Option #1: The first option is for both biobank staff and researchers to have access to your identifying information.

Option #2: A second option is for biobank staff to have access to identifying information about you but not the researchers.

Option #3: A third option is for neither the biobank staff nor the researchers to have access to any identifying information about you.