

## MJ Health Research Foundation Health Data and Biological Sample Application Guidelines and Management/Service Fee Schedule

### I. MJ Health Survey and MJ Biodata Data Application Fees

Fee schedules shown in Part I of this document are for MJ Health Survey and MJ Biodata data applications only. For information regarding fees associated with MJ Biobank sample applications please proceed to part II.

#### A. General Applications (including academic research)

- i. Applicant Qualifications: professors, research staff or physicians affiliated with any domestic or foreign academic or non-profit institutions (including teaching hospitals).
- ii. Maximum Variable Size: total number of variables from both MJ Health Survey database and MJ Biodata databases should not exceed 200<sup>1</sup>.
- iii. Authorized Period of Data Use: Two years, you can apply for an extension for six months.
- iv. Limitation on Data Use: data shall only be accessed by research staff directly involved in the study and used only within the scope described in the study proposal. Data shall not be copied or distributed to anyone outside the aforementioned study.
- v. Fee Schedule: divided into data processing fee and data fee. Data fee is calculated based on the “valid data points”; refer to the chart below for cost level. If the number of valid data points does not reach the maximum data points of the designated cost level, then the total cost is calculated as the cost from previous level plus the cost incurred by the data points in excess of the previous level in terms of the ratio of the points in excess of previous level to the total number of points within current level and charged to the nearest rounded tenth dollar. For example, when the number of valid data point is at 8.37 million,

$$\begin{aligned}
 \text{Data fees} &= 2,400 \text{ USD} + \frac{8.37-5}{10-5} \text{ million points} \times (4,000 - 2,400) \text{ USD} \\
 &= 2,400 + 1,078.4 \\
 &= 3,478.4 \\
 &\approx 3,470 \text{ USD}
 \end{aligned}$$

Type	Description	Cost (USD)
<b>Data Processing Fee</b>	Cost for processing applications, data selection and release; additional charges may apply if data selection requires complicated procedure	550

<sup>1</sup> Basic background information is a mandatory variable and does not count towards the limit of 200 variables. Biodata has a limit of 70 variables, and health questionnaire data has a limit of 130 variables for the application.

<b>Data Fee</b>	less than or equal to 1500,000 valid data points	1,350
	1500,000<Number of valid data points≤2.5 million	1,351~1,650
	2.5 million<Number of valid data points≤5 million	1,651~2,650
	5 million<Number of valid data points≤10 million	2,651~4,400
	10 million<Number of valid data points≤20 million	4,401~8,500
	20 million<Number of valid data points≤50 million	8,501~13,000
	50 million<Number of valid data points≤100 million	13,001~17,000
	100 million<Number of valid data points≤300 million	17,001~51,500

Note 1: A sample's value for each variable constitutes a valid data point. Number of samples multiplied by number of variables, then minus number of missing data points equals number of valid data points.

Note 2: If user wants to change the requested number of variables or number of data points after application is approved but before delivering the data, then data fee is calculated based on the final number of valid data points, but additional \$350 USD will be added to data processing fee.

## B. Industry Applications (non-academic research)

- Applicant Qualifications: applicant must be a research professional from a company in the biomedical or biopharmaceutical industry.
- Maximum Variable Size: total number of variables from both MJ Health Survey database and MJ Biodata database should not exceed 200<sup>2</sup>.
- Authorized Period of Data Use: Two years, you can apply for an extension for six months.
- Limitation on Data Use: data shall only be accessed by research staff directly involved in the study and used only within the scope described in the study proposal. Data shall not be copied or distributed to anyone outside the aforementioned study.
- Fee Schedule: divided into data processing fee and data fee. Data fee is calculated based on the "valid data points"; refer to the chart below for cost level. If the number of valid data points does not reach the maximum data points of the designated cost level, then the total cost is calculated as the cost from previous level plus the cost incurred by the data points in excess of the previous level in terms of the ratio of the points in excess of previous level to the total number of points within current level and charged to the nearest rounded tenth dollar. For example, when the number of valid data point is at 4.5 million,

$$\begin{aligned}
 \text{Data fees} &= 2,750 \text{ USD} + \frac{4.5-2}{5-2} \text{ million points} \times (4,250 - 2,750) \text{ USD} \\
 &= 2,750 + 1,249.9
 \end{aligned}$$

<sup>2</sup> Basic background information is a mandatory variable and does not count towards the limit of 200 variables. Biodata has a limit of 70 variables, and health questionnaire data has a limit of 130 variables for the application.

= 3,999.9  
 ≈ 3,990 USD

Type	Description	Cost (USD)
<b>Data Processing Fee</b>	Cost for processing applications, data selection and release; additional charges may apply if data selection requires complicated procedure	1,400
<b>Data Fee</b>	less than or equal to 1500,000 valid data points	3,300
	1500,000<Number of valid data points≤2.5 million	3,301~4,200
	2.5 million<Number of valid data points≤5 million	4,201~6,600
	5 million<Number of valid data points≤10 million	6,601~11,000
	10 million<Number of valid data points≤20 million	11,001~21,500
	20 million<Number of valid data points≤50 million	21,501~32,500
	50 million<Number of valid data points≤100 million	32,501~42,500
	100 million<Number of valid data points≤300 million	42,501~128,500

Note 3: A sample's value for each variable constitutes a valid data point. Number of samples multiplied by number of variables, then minus number of missing data points equals number of valid data points.

Note 4: If user wants to change the requested number of variables or number of data points after application is approved but before delivering the data, then data fee is calculated based on the final number of valid data points, but additional \$850 USD will be added to data processing fee.

### C. Data Linkage

If data being applied requires linkage with national registries or government files, the application and its research proposal must first receive approvals from MJ Health Research Foundation and the government agency issuing the national data. Once all the approvals are in place, MJ Health Research Foundation will provide all the necessary data to the data-issuing agency to perform data linkage. A special data management fee of USD \$350.00 should be made payable to the MJ Health Research Foundation.

### D. Purchasing Additional Data

If an already approved research application needs to increase its sample size or number of variables, the following rules will apply:

- i. Applicant qualification: project's original principal investigator
  1. Principal investigator of the general application must still be a professor, research staff or physician affiliated with any domestic or foreign academic or non-profit institutions (including teaching hospitals).

2. Principal investigator of the industry application must still be a research professional from a company in the biomedical or biopharmaceutical industry.
- ii. Total number of both old and new variables (from both MJ Survey and MJ Biodata) added together must not exceed 200<sup>3</sup>.
- iii. Authorized Period of Data Use: unlimited.
- iv. Limitation on Data Use: data shall only be accessed by research staff directly involved in the study and used only within the scope described in the study proposal. Data shall not be copied or distributed to anyone outside the aforementioned study.
- v. Fee Schedule:
  1. Data processing fee: Regular or academic applications: 350 USD; Industry applications: 850 USD. If data processing takes longer than usual, processing fee may increase at the foundation's discretion.
  2. Data fee: Additional fee is computed based on the cost from total valid data points consisting of both original and newly purchased points, minus the data fees already paid for.

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<sup>3</sup> Basic background information is a mandatory variable and does not count towards the limit of 200 variables. Biodata has a limit of 70 variables, and health questionnaire data has a limit of 130 variables for the application.

## II. MJ Biobank Sample Application Fees

MJ Biobank offers annotated biological samples to research institutes or companies currently conducting biomedical research. Additionally, biological sample data can be linked to Health Survey data and Biodata to provide more health information to the research staff. Details regarding fee schedule is as follows:

### A. General Applications (Academic Research)

- i. Applicant Qualifications: An applicant is defined as any domestic or international academic biomedical research body. A proof of corporate or academic identity is required at the time of application. The Center will not accept any application from an individual.
- ii. Maximum Sample Size: unlimited.
- iii. Maximum Variable Size: total number of variables from both Health Survey and Biodata databases should not exceed 200<sup>4</sup>.
- iv. Authorized Period of Sample Use: unlimited.
- v. Biological samples and the associated data shall only be accessed by research staff directly involved in the study and used only within the scope described in the study proposal. Samples and Data shall not be copied or distributed to anyone outside the aforementioned study.
- vi. Fee Schedule

Item	Description	Fee (USD)
Application & Review Fee	Administrative review fee for the application procedure.	\$350
Data Processing Fee	Covers processing of questionnaire and physical examination data. Additional charges may apply for more complex applications.	\$300
Sample Retrieval Fee	Charged per requested sample tube.	\$5 per tube
Data Management Service Fee - Questionnaire Data	Covers costs of error-checking prior to release, including manpower and equipment. Questionnaire includes: demographics (excluding personally identifiable information), personal and family medical history, current status, lifestyle (smoking, alcohol, betel nut chewing, exercise), dietary habits, etc. ~100+ questions.	number of samples x number of variables x 0.02
Data Management	Includes basic examinations (height, weight,	

<sup>4</sup> Basic background information is a mandatory variable and does not count towards the limit of 200 variables. Biodata has a limit of 70 variables, and health questionnaire data has a limit of 130 variables for the application.

Service Fee - Physical Examination Data	body fat, waist, hip, blood pressure, pulse, respiration, etc.) and laboratory tests (blood, urine, white blood cell differential, glucose, liver function, kidney function, uric acid, lipids, calcium, phosphorus, serum iron, hepatitis B, tumor markers, thyroid function, inflammation markers, colorectal cancer screening, etc.), ~100+ data items.	number of samples x number of variables x 0.02
Sample Management Service Fee	Covers manpower, consumables, storage equipment, utilities, etc. related to collection and preservation of samples. Samples include serum (0.5 ml), plasma (1 ml), buffy coat (0.2 ml).	\$35 per tube
Sample Value-Added Service Fee - Genome-wide Genotyping	Covers expenses for value-added analysis including cold-chain logistics, extraction, and instrument analysis. Current genomic analysis is performed with genome-wide SNP arrays.	\$200 per person
Sample Value-Added Service Fee - Immune-related Proteomics	Proteomics analysis focused on immune-related proteins.	\$7 per item
Urine Samples	Fees to be determined (service not yet available).	Not yet available
Tissue Samples	Fees to be determined (service not yet available).	Not yet available
Derivative Processing Fee	Charged according to the category of derivative requested.	Variable
Sample Transportation Fee	Charged based on actual transportation costs.	Actual cost

Note: Between 2002-2008, 10 ml of blood was drawn into 1 K3E EDTA K3 tube, centrifuged and divided into 2 tubes of plasma (1 ml each) and 2 tubes of buffy coat (0.25ml each), while 5-8 ml of blood was drawn into 1 Z Serum Sep Clot Activator tube, centrifuged and divided into 5 tubes of serum (0.5ml each). Since 2015, 20 ml of blood was drawn into 2 K2 EDTA tubes (10ml each), centrifuged and divided into 2 tubes of plasma (1 ml each) and 5 tubes of buffy coat (0.25ml each), while about 8 ml of blood was drawn into 1 SST Plus tube, centrifuged and divided into 5 tubes of serum (0.5ml each).

## B. Industry Applications (Non-Academic Research)

- i. Applicant Qualifications: An applicant is defined as any domestic or international private company in the biotech/pharmaceutical industries. A proof of corporate or academic identity is required at the time of application. The Center will not accept any application

from an individual..

- ii. Maximum Sample Size: unlimited.
- iii. Maximum Variable Size: total number of variables from both Health Survey and Biodata databases should not exceed 200<sup>5</sup>.
- iv. Authorized Period of Sample Use: unlimited.
- v. Biological samples and the associated data shall only be accessed by research staff directly involved in the study and used only within the scope described in the study proposal. Samples and Data shall not be copied or distributed to anyone outside the aforementioned study.
- vi. Fee Schedule

Item	Description	Fee (USD)
Application & Review Fee	Administrative review fee for the application procedure.	\$350
Data Processing Fee	Covers processing of questionnaire and physical examination data. Additional charges may apply for more complex applications.	\$300
Sample Retrieval Fee	Charged per requested sample tube.	\$5 per tube
Data Management Service Fee - Questionnaire Data	Covers costs of error-checking prior to release, including manpower and equipment. Questionnaire includes: demographics (excluding personally identifiable information), personal and family medical history, current status, lifestyle (smoking, alcohol, betel nut chewing, exercise), dietary habits, etc. ~100+ questions.	number of samples x number of variables x 0.05
Data Management Service Fee - Physical Examination Data	Includes basic examinations (height, weight, body fat, waist, hip, blood pressure, pulse, respiration, etc.) and laboratory tests (blood, urine, white blood cell differential, glucose, liver function, kidney function, uric acid, lipids, calcium, phosphorus, serum iron, hepatitis B, tumor markers, thyroid function, inflammation markers, colorectal cancer screening, etc.), ~100+ data items.	number of samples x number of variables x 0.05
Sample	Covers manpower, consumables, storage	\$100 per tube

<sup>5</sup> Basic background information is a mandatory variable and does not count towards the limit of 200 variables. Biodata has a limit of 70 variables, and health questionnaire data has a limit of 130 variables for the application.

Management Service Fee	equipment, utilities, etc. related to collection and preservation of samples. Samples include serum (0.5 ml), plasma (1 ml), buffy coat (0.2 ml).	
Sample Value-Added Service Fee - Genome-wide Genotyping	Covers expenses for value-added analysis including cold-chain logistics, extraction, and instrument analysis. Current genomic analysis is performed with genome-wide SNP arrays.	\$600 per person
Sample Value-Added Service Fee - Immune-related Proteomics	Proteomics analysis focused on immune-related proteins.	\$20 per item
Urine Samples	Fees to be determined (service not yet available).	Not yet available
Tissue Samples	Fees to be determined (service not yet available).	Not yet available
Derivative Processing Fee	Charged according to the category of derivative requested.	Variable
Sample Transportation Fee	Charged based on actual transportation costs.	Actual cost

Note: Between 2002-2008, 10 ml of blood was drawn into 1 K3E EDTA K3 tube, centrifuged and divided into 2 tubes of plasma (1 ml each) and 2 tubes of buffy coat (0.25ml each), while 5-8 ml of blood was drawn into 1 Z Serum Sep Clot Activator tube, centrifuged and divided into 5 tubes of serum (0.5ml each). Since 2015, 20 ml of blood was drawn into 2 K2 EDTA tubes (10ml each), centrifuged and divided into 2 tubes of plasma (1 ml each) and 5 tubes of buffy coat (0.25ml each), while about 8 ml of blood was drawn into 1 SST Plus tube, centrifuged and divided into 5 tubes of serum (0.5ml each).