

Using Labs Wisely Data Sheet

v1.3
September 4, 2024

This Data Sheet describes the data to be extracted from hospitals as part of the Using Labs Wisely program.

Data Definition

Weekly[^] counts of all acute inpatient lab tests* performed in hospital from December 30, 2019 to most currently available

[^]Week is defined as Monday to Sunday (Dec 30, 2019 is a Monday)

*Lab tests of interest

Prothrombin Time/International Normalized Ratio

Partial Thromboplastin Time

Aspartate Aminotransferase

Alanine Aminotransferase

Folate

Blood urea nitrogen

Creatinine

Creatine Kinase MB

Troponin

Vitamin B12

Erythrocyte Sedimentation Rate

Urine Culture

Please refer to the following pages for more details on the data formats:

[Data and File Format](#)

[Table Format](#)

[Example](#)

Sending Data Files

Please send files to GEMINI.CWC@unityhealth.to with the subject header:
"Data for Using Labs Wisely from [InstitutionID]"

Date and File Format

Data Format

1. Data should be provided in CSV format and should not include any PHI
2. The first row of each file should list the variable header name
3. The column names must follow the naming format found under the Variable Name column in the Table Format page (page 3). Please double check spelling of Variable Names.
4. Data should be provided for each hospital separately, if it is a part of an organization/institution DO NOT send data in separate tabs
5. For site that have previously submitted data, please send data for the new data collection period only (historical data is not required).
6. For sites that have previously submitted data, please ensure site name and institution number is consistent with previous data submissions.

Filename Format

1. The filename should have the following naming convention:
[InstitutionID]_Lab_WeeklyCounts_[START DATE]-[END DATE]_[EXTRACTION DATE].csv
START DATE is assumed to begin on the first day of the week in YYYYMMDD format
END DATE is assumed to end on the last day of the week in YYYYMMDD format
EXTRACTION DATE is the date of data extraction in YYYYMMDD format

Example:

80497_Lab_WeeklyCounts_20191230-20241030_20241115.csv

Table Format

Inclusion criteria:

All acute inpatient lab tests performed in institution

Exclusion criteria:

Lab tests that were cancelled or incomplete

All outpatient lab tests done in hospital

Variable Name	Variable Type	Format	Definition/Comments
Institution_ID	Numeric	5 digits	Institution number used in CIHI DAD submission <i>(Note: If you do not know what your Institution ID is, please check with your hospital Decision Support department)</i>
Institution_Site_Name	Character	-	Official name of site used in CIHI DAD submission
Institution_Corporate_Name	Character	-	Official name of corporation to which institution belongs and used in CIHI DAD submission
Province	Character	-	Province of the institution (two-letter abbreviation; e.g., ON, QC)
Week_Start_Date	Date	YYYY-MM-DD	First day of the week (Monday to Sunday) representing the entire week that the lab tests were performed <i>(Note: If weekly data is not possible, please provide monthly data and rename variable to Month_Start_Date with the YYYY-MM format)</i> **Please double check that date format is consistent.
Total_Bed_Days	Integer	-	Total number of occupied bed days of admitted patients during the week
PT_INR	Integer	-	Number of Prothrombin time/International Normalized Ratio tests performed during the week <i>(Note: If PT/INR counts are unavailable as a single value, please provide PT test counts)</i>
PTT	Integer	-	Number of Partial Thromboplastin Time tests performed during the week <i>(Note: Please clarify which of aPTT, PTT or both are provided)</i>
AST	Integer	-	Number of Aspartate Aminotransferase tests performed during the week
ALT	Integer	-	Number of Alanine Aminotransferase tests performed during the week
Folate	Integer	-	Number of Folate tests performed during the week <i>(Note: Please clarify whether RBC, serum folate or both are provided. If only one is reported, please only report that one and specify.)</i>
BUN_urea	Integer	-	Number of Blood Urea Nitrogen tests performed during the week
Cr	Integer	-	Number of Creatinine tests performed during the week
CK_MB	Integer	-	Number of Creatine Kinase MB tests performed during the week <i>(Note: Do not include CK tests)</i>
Troponin	Integer	-	Number of Troponin tests performed during the week <i>(Note: Please include all assays such as high-sensitivity troponin)</i>
B12	Integer	-	Number of Vitamin B12 tests performed during the week
ESR	Integer	-	Number of Erthrocyte Sedimentation Rate tests performed during the week

Table Format

Urine_culture	Integer	-	Number of Urine Culture tests performed during the week (do not include in-lab reflexing or screening tests)
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Note:

When a specific test is unavailable (e.g. not performed at site), indicate as N/A instead of 0

When a specific test is available but no tests were conducted, please indicate as 0

Examples

2 examples below:

Example 1 is in wide format (preferred format) and Example 2 is in long format.

Example 1. Wide Format (Preferred)

Week_Start_Date	Institution_ID	Institution_Site_Name	Institution_Corporate_Name	Province	Total_Bed_Days	PT_INR	PTT	AST	ALT	Folate	BUN_urea	Cr	CK_MB	Troponin
2019-12-30														
2019-12-30														
...														

Example 2. Long Format

Week_Start_Date	Value	Count
2019-12-30	Institution_ID	
2019-12-30	Institution_Site_Name	
2019-12-30	Institution_Corporate_Name	
2019-12-30	Province	
2019-12-30	Total_Bed_Days	
2019-12-30	PT_INR	
2019-12-30	PTT	
2019-12-30	AST	
2019-12-30	ALT	
2019-12-30	Folate	
2019-12-30	BUN_urea	
2019-12-30	Cr	
2019-12-30	CK_MB	
2019-12-30	Troponin	
2019-12-30	Institution_ID	
2019-12-30	Institution_Site_Name	
2019-12-30	Institution_Corporate_Name	
2019-12-30	Province	
2019-12-30	Total_Discharges	
2019-12-30	PT_INR	
2019-12-30	PTT	
2019-12-30	AST	
2019-12-30	ALT	
2019-12-30	Folate	
2019-12-30	BUN_urea	
2019-12-30	Cr	
2019-12-30	CK_MB	
2019-12-30	Troponin	
...		

Note:

A separate file can be sent to include Institution ID, Institution Site Name, Institution Corporate Name and Province to avoid redundancy of data in long format table

Version History

Version	Date	Modification
v1.0	March 25, 2022	First version of data sheet
v1.1	August 29, 2022	Updated data definition to only include acute inpatients. Clarified Institution ID and Folate definition.
v1.2	January 19, 2024	Provided clarification on data format and what data should be sent if hospital has previously submitted data.
v1.3	September 4, 2024	Included 3 new tests, updated start date from 2018-01-01 to 2019-12-30, provided clarification in format