

Lab Result Dataset Specification

The "Lab Result Dataset Specification" is a critical tool for capturing and organizing laboratory test results within a healthcare system. This dataset is essential for tracking patient diagnostics, monitoring health conditions, and supporting clinical decisions by providing accurate and timely laboratory data. Key features of this dataset include:

- Lab Result
- Lab Result Raw

- Lab Result Records:** This table contains detailed information about each laboratory test conducted. It records the test type, date, results, and interpretations. This comprehensive documentation is vital for ensuring that healthcare professionals have access to all necessary data to assess patient health accurately.

This dataset plays a pivotal role in enhancing the management of laboratory data, ensuring that healthcare providers can make informed clinical decisions and effectively monitor patient health outcomes.

Lab Result

Column Name	Is Nullable	Data Type	Description
Service_Date	YES	DATE	The date when the lab service was performed.
Member_ID	YES	STRING	ID of the member or patient associated with the lab result.
Membership_ID	YES	STRING	ID of the membership or insurance plan related to the lab result.
Ordering_Provider_ID	YES	STRING	ID of the provider who ordered the lab test.
Provider_ID	YES	STRING	ID of the provider who performed the lab test.
Ordering_Provider_NPI	YES	STRING	NPI (National Provider Identifier) of the provider who ordered the lab test.
Provider_NPI	YES	STRING	NPI of the provider who performed the lab test.
Custodian_Lab_Code	YES	STRING	Code identifying the lab or facility that holds the result data.
Custodian_Lab_Name	YES	STRING	Name of the lab or facility that holds the result data.
Lab_Order_ID	YES	STRING	Unique identifier for the lab order associated with the result.
Ordered_LOINC_Code	YES	STRING	Logical Observation Identifiers Names and Codes (LOINC) code for the ordered test.
Ordered_LOINC_Name	YES	STRING	Name or description of the ordered LOINC test.

Column Name	Is Nullable	Data Type	Description
Ordered_LOINC_Class_Code	YES	STRING	LOINC class code for the ordered test.
Ordered_LOINC_Class_Description	YES	STRING	Description of the LOINC class for the ordered test.
Ordered_LOINC_Component	YES	STRING	Component part of the LOINC code for the ordered test.
Ordered_LOINC_Long_Common_Description	YES	STRING	Long common name of the ordered LOINC test.
Ordered_LOINC_Short_Common_Description	YES	STRING	Short common name of the ordered LOINC test.
Ordered_LOINC_Source	YES	STRING	Source or system that provided the ordered LOINC code.
Result_Comments	YES	STRING	Any comments or additional information related to the lab result.
Performed_LOINC_Code	YES	STRING	LOINC code for the performed or resulted test.
Performed_LOINC_Name	YES	STRING	Name or description of the performed LOINC test.
Performed_LOINC_Class_Code	YES	STRING	LOINC class code for the performed test.
Performed_LOINC_Class_Description	YES	STRING	Description of the LOINC class for the performed test.
Performed_LOINC_Component	YES	STRING	Component part of the LOINC code for the performed test.
Performed_LOINC_Long_Common_Description	YES	STRING	Long common name of the performed LOINC test.
Performed_LOINC_Short_Common_Description	YES	STRING	Short common name of the performed LOINC test.
Performed_LOINC_Source	YES	STRING	Source or system that provided the performed LOINC code.
Observation_Date	YES	TIMESTAMP	The date when the lab result was observed or recorded.
Result_Units	YES	STRING	Units of measurement for the lab test result.
Result_Value_Numeric	YES	NUMERIC	Numeric value of the lab test result if applicable.
Result_Value_String	YES	STRING	String value of the lab test result if applicable.
Result_Value_Type	YES	STRING	Type of value recorded for the lab test result (numeric or string).
Interpretation_Code	YES	STRING	Code indicating the interpretation of the lab test result.
Interpretation_Description	YES	STRING	Description of the interpretation of the lab test result.

Column Name	Is Nullable	Data Type	Description
Reference_Range_Low	YES	NUMERIC	Lower limit of the reference range for the lab test result.
Reference_Range_High	YES	NUMERIC	Upper limit of the reference range for the lab test result.

Lab Result Raw

Column Name	Is Nullable	Data Type	Description
Service_Date	YES	DATE	The date when the lab service was performed.
Member_ID	YES	STRING	ID of the member or patient associated with the lab result.
Membership_ID	YES	STRING	ID of the membership or insurance plan related to the lab result.
Ordering_Provider_ID	YES	STRING	ID of the provider who ordered the lab test.
Provider_ID	YES	STRING	ID of the provider who performed the lab test.
Ordering_Provider_NPI	YES	STRING	NPI (National Provider Identifier) of the provider who ordered the lab test.
Provider_NPI	YES	STRING	NPI of the provider who performed the lab test.
Custodian_Lab_Code	YES	STRING	Code identifying the lab or facility that holds the result data.
Custodian_Lab_Name	YES	STRING	Name of the lab or facility that holds the result data.
Lab_Order_ID	YES	STRING	Unique identifier for the lab order associated with the result.
Ordered_LOINC_Code	YES	STRING	Logical Observation Identifiers Names and Codes (LOINC) code for the ordered test.
Ordered_LOINC_Name	YES	STRING	Name or description of the ordered LOINC test.
Ordered_LOINC_Class_Code	YES	STRING	LOINC class code for the ordered test.
Ordered_LOINC_Class_Description	YES	STRING	Description of the LOINC class for the ordered test.
Ordered_LOINC_Component	YES	STRING	Component part of the LOINC code for the ordered test.
Ordered_LOINC_Long_Common_Description	YES	STRING	Long common name of the ordered LOINC test.
Ordered_LOINC_Short_Common_Description	YES	STRING	Short common name of the ordered LOINC test.
Ordered_LOINC_Source	YES	STRING	Source or system that provided the ordered LOINC code.
Result_Comments	YES	STRING	Any comments or additional information related to the lab result.

Column Name	Is Nullable	Data Type	Description
Performed_LOINC_Code	YES	STRING	LOINC code for the performed or resulted test.
Performed_LOINC_Name	YES	STRING	Name or description of the performed LOINC test.
Performed_LOINC_Class_Code	YES	STRING	LOINC class code for the performed test.
Performed_LOINC_Class_Description	YES	STRING	Description of the LOINC class for the performed test.
Performed_LOINC_Component	YES	STRING	Component part of the LOINC code for the performed test.
Performed_LOINC_Long_Common_Description	YES	STRING	Long common name of the performed LOINC test.
Performed_LOINC_Short_Common_Description	YES	STRING	Short common name of the performed LOINC test.
Performed_LOINC_Source	YES	STRING	Source or system that provided the performed LOINC code.
Observation_Date	YES	TIMESTAMP	The date when the lab result was observed or recorded.
Result_Units	YES	STRING	Units of measurement for the lab test result.
Result_Value_Numeric	YES	NUMERIC	Numeric value of the lab test result if applicable.
Result_Value_String	YES	STRING	String value of the lab test result if applicable.
Result_Value_Type	YES	STRING	Type of value recorded for the lab test result (numeric or string).
Interpretation_Code	YES	STRING	Code indicating the interpretation of the lab test result.
Interpretation_Description	YES	STRING	Description of the interpretation of the lab test result.
Reference_Range_Low	YES	NUMERIC	Lower limit of the reference range for the lab test result.
Reference_Range_High	YES	NUMERIC	Upper limit of the reference range for the lab test result.
Type	YES	STRING	Type of lab test (e.g., blood, urine, etc.).
Tenant	YES	STRING	Identifier for the specific tenant or organization.
Active_Version	YES	BOOL	Version of the lab result data that is currently active.
Date	YES	DATE	Date associated with the lab result data.
Sequence	YES	INT64	Sequence number for the lab result data.
Source_System_Name	YES	STRING	Name of the system or application that generated the lab result data.

Column Name	Is Nullable	Data Type	Description
Source_Timestamp	YES	TIMESTAMP	Timestamp when the lab result data was generated.
Source_File_Name	YES	STRING	Name of the file containing the lab result data.
Schema_Version	YES	FLOAT64	Version of the schema or data model used for the lab result data.
Visibility_Level	YES	INT64	Level of visibility or access control for the lab result data.
Member_Partition	YES	INT64	Partition or segment of the member data (if applicable).
_updated	YES	STRING	Timestamp indicating when the record was last updated.