# Data Use Agreement

**De-identified Data Set**

This Data Use Agreement - De-identified Data Set (the “Agreement”) is made effective on \*\*\*\*\*\*\* (“**Effective Date**”) by and between \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(“**Recipient**”) and PicnicHealth (“**Sender**”), (each a “**Party**” or collectively the “**Parties**”).

In consideration of the mutual covenants as set forth herein, the sufficiency of which are hereby acknowledged, the Recipient and Sender agree as follows:

1. **Purpose**. The purpose of this Agreement is to comply with the Health Insurance Portability and Accountability Act of 1996, the Health Information Technology for Economic and Clinical Health Act and its implementing regulations (45 C.F.R. Parts 160-164) (“**HIPAA**”) process for de-identified Protected Health Information (defined in Section 2(c)) for purposes of a non-commercial, clinical research approved by Sender the (the “**Study**”) as it relates to “\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_” (the “**Protocol**”). All references in this Agreement to specific statutes, codes or regulations shall be deemed to be references to those statutes, codes or regulations as may be amended from time to time.
2. **Definitions**. Capitalized terms used, but not otherwise defined, in this Agreement shall have the meanings given to them in HIPAA. For convenience of reference, the definitions of “Individually Identifiable Health Information” and “**Protected Health Information**” as defined by HIPAA as of the Effective Date are below, as amended from time to time by HIPAA as well as the definition of “**De-Identified Data Set**” derived from the requirements de-identification of information set forth in 45 C.F.R. §164.514(a).
3. “*De-identified Data Set*” means de-identified data provided by Sender to Recipient in connection with this Agreement.
4. “*Individually Identifiable Health Information*” means information that is a subset of health information, including demographic information collected from an Individual, and (i) is created or received by a healthcare provider, health plan, employer, or health care clearinghouse; and (ii) relates to the past, present, or future physical or mental health or condition of an Individual; the provision of healthcare to an Individual; or the past, present, or future payment for the provision of health care to an Individual; and (a) that identifies the Individual, or (b) with respect to which there is a reasonable basis to believe the information can be used to identify he Individual. Health information that meets the specification of de-identification under 45 C.F.R. §164.514(a) and (b) is considered not to be “Individually Identifiable Health Information” (i.e., de-identified).
5. “*Protected Health Information*” means Individually Identifiable Health Information that Recipient receives from Sender or from a business associate of Sender or which Recipient creates for Sender which is transmitted or maintained in any form or medium. “Protected Health Information” shall not include education records covered by the Family Educational Right and Privacy Act, as amended, 20 U.S.C. §1232g, or records described in 20 U.S.C. §1232g (a)(4)(B)(iv), or employment records held by Sender in its role as employer.
6. **Obligations and Activities of Recipient.**
7. **Study Oversight**. Recipient and its principal investigator shall be responsible for all aspects of the conduct of the study. Recipient shall ensure that the study is conducted in compliance with: (a) the Protocol; (b) this Agreement; (c) Good Clinical Practice (“**GCP**”), the standards for which are set forth in the U.S. Code of Federal Regulations and the International Conference on Harmonization (E6) Guidelines for Good Clinical Practice; and (d) all applicable federal, state, and local laws and regulations, including without limitation the U.S. Food and Drug Administration (“**FDA**”) and applicable Sender policies and procedures. The oversight of the study (including, but not limited to, securing and maintaining all appropriate IRB and legal/regulatory approvals) shall be solely Recipient’s responsibility. Sender will not be responsible or liable for any losses, costs, damages, or other expenses arising out of or resulting from: (x) design, content, or implementation of the Protocol or selection of Study subjects; or (y) any injury (whether or not study related) to persons or damage to property arising from or related to the study.
8. **Permitted Uses and Disclosures by Recipient**. Except as otherwise limited in this Agreement or any other agreement between Recipient and Sender, Recipient may use or disclose the De-Identified Data Set only for purposes of conducting research described in the Protocol (“**Permitted Uses and Disclosures**”). Recipient agrees not to use or disclose the De-Identified Data Set for any purpose other than the permitted uses and disclosures under this Agreement. Recipient agrees not to use or disclose the De-Identified Data Set for any other purpose described in this Agreement including without limitation future research studies. Recipient and Principal Investigator agree that De-identified Data Set or derivatives thereof will not be used in any studies unless these studies are disclosed and approved by Sender as part of this Agreement.
9. **Safeguards**. Recipient will use appropriate safeguards to prevent use or disclosure of a De-Identified Data Set other than as provided for by this Agreement. Recipient will develop, implement, maintain, and use appropriate administrative, technical, and physical safeguards to preserve the integrity and confidentiality of and to prevent non-permitted or violating use or disclosure of the De-Identified Data Set which is transmitted electronically. Recipient will document and keep these safeguards current and consistent with the requirements listed in the Sender’s Data Access Policy.
10. **Mitigation**. Recipient will mitigate, to the extent practicable, any harmful effect that is known to Recipient of a use or disclosure of a De-Identified Data Set by Recipient in violation of the requirements of this Agreement. Recipient shall be responsible for any and all costs (including the costs of Sender) associated with mitigating or remedying any violation of this Agreement.
11. **Reporting**. Recipient will report to the Privacy Officer of Sender, in writing, any use and/or disclosure of a De-Identified Data Set that is not permitted or required by this Agreement of which Recipient becomes aware, including a violation of Section 3(b) (Permitted Uses and Disclosures by Recipient) or other provision of this Agreement. Such report shall be made as soon as reasonably possible but in no event more than five (5) business days after discovery by Recipient of such unauthorized use or disclosure. This reporting obligation shall include breaches by Recipient, its employees, subcontractors and/or agents. Each such report of a breach will: (1) identify the nature of the non-permitted or violating use or disclosure; (2) identify the De-identified Data Set used or disclosed; (3) identify who made the non-permitted or violating use or disclosure; (4) identify who received the non-permitted or violating use or disclosure; (5) identify what corrective action Recipient took or will take to prevent further non-permitted or violating uses or disclosures; (6) identify what Recipient did or will do to mitigate any deleterious effect of the non-permitted or violating use or disclosure; and (7) provide such other information as Sender may reasonably request.
12. **Agents and Subcontractors**. Recipient will ensure that any agent or subcontractors to whom it provides a De-Identified Data Set received from, or created or received by Recipient on behalf of, Sender agrees to the same restrictions and conditions that apply through this Agreement to Recipient with respect to such information.
13. **Identification and Contact of Individuals**. Recipient will not identify or attempt to identify the Individuals whose Protected Health Information appears in a De-Identified Data Set. Recipient will not contact or attempt to contact the Individuals whose Protected Health Information appears in a De-Identified Data Set.
14. **Term**. The term of this Agreement shall commence as of the Effective Date and shall continue in effect for a term of eighteen months, unless terminated in accordance with Section 5 (Termination), below. This Agreement by be renewed for additional one (1) year terms by signed written agreement of both of the Parties.
15. **Termination.**
16. **Termination for Cause**. Upon Sender’s reasonable determination that Recipient has breached a material term of this Agreement, Sender shall be entitled to do any one or more of the following:

(1) Give Recipient written notice of the existence of such breach and give Recipient an opportunity to cure upon mutually agreeable terms. If Recipient does not cure the breach or end the violation according to such terms, or if Sender and Recipient are unable to agree upon such terms, Sender may immediately terminate any agreement between Sender and Recipient which is the subject of such breach.

(2) Immediately terminate any agreement between Sender and Recipient which is the subject of such breach.

(3) Immediately stop all further disclosures of De-Identified Data Set(s) to Recipient pursuant to each agreement between Sender and Recipient which is the subject of such breach.

1. **Termination by Mutual Agreement**. The Agreement may terminate immediately upon mutual signed, written agreement of the Parties.
2. **Immediate Termination**. This Agreement shall terminate immediate upon written notice of a Party at the close of the Study described in the Protocol.
3. **Effect of Termination**. Upon receipt of written demand from Sender, Recipient agrees to immediately return or destroy, except to the extent infeasible, all of the De-Identified Data Set(s) demanded by Sender, including all such De-Identified Data Set(s) which Recipient has disclosed to its employees, subcontractors and/or agents. Destruction shall include destruction of all copies including backup tapes and other electronic backup medium. In the event the return or destruction of some or all such De-Identified Data Set(s) is infeasible, the De-Identified Data Set(s) not returned or destroyed pursuant to this paragraph shall be used or disclosed only for those purposes that make return or destruction infeasible.
4. **Continuing Obligations.** Recipient’s obligation to protect the privacy and confidentiality of the De-Identified Data Set is continuous and survives any termination, cancellation, expiration, or other conclusion of this Agreement or any other agreement between Recipient and Sender.
5. **No Compensation**. There will be no compensation or payment for the permitted use and access to the De-identified Data Set.
6. **Representation and Warranties**. Recipient represents and warranties that: (1) it will only use the De-identified Data Set for non-commercial research as described in Sender’s policies and procedures and this Agreement, (2) it is in compliance with all applicable Sender policies and procedures, informed consents and Protocols documents, and institutional review board approvals, and (3) it is in compliance with all applicable federal and state laws and regulations.
7. **No Debarment; Licensure**. Recipient and principal investigator for Recipient (the “**Principal Investigator**”) certify that neither of them, nor any their employees and Study staff have been: (a) convicted of an offense related to healthcare; (b) listed by a federal agency as debarred, excluded, disqualified or otherwise ineligible for federal program participation or has otherwise been disqualified from participation in any clinical investigation; or (c) has been engaged in any acts that could be considered for any such disqualification. In addition, Recipient represents and warrants that Principal Investigator’s and any their Study staff’s license(s) to practice medicine or other such licenses in any jurisdiction is not currently suspended, revoked, on probation or otherwise restricted.
8. **Limited Warranty.** THE DE-IDENTIFIED DATA SET IS PROVIDED AS IS AND SENDER MAKES NO WARRANTIES EXCEPT FOR THAT PROVIDED IN THIS SECTION. ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, ARE EXPRESSLY DISCLAIMED.
9. **Limitation of Liability**. NEITHER PARTY WILL BE LIABLE TO THE OTHER PARTY OR TO ANY THIRD PARTY FOR ANY LOSS OF USE, REVENUE, OR PROFIT, OR FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT, EXEMPLARY, SPECIAL, OR PUNITIVE DAMAGES WHETHER ARISING OUT OF BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), OR OTHERWISE, REGARDLESS OF WHETHER SUCH DAMAGE WAS FORESEEABLE AND WHETHER OR NOT SUCH PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND NOTWITHSTANDING THE FAILURE OF ANY AGREED OR OTHER REMEDY OF ITS ESSENTIAL PURPOSE.
10. **Indemnification**. Recipient shall indemnify and hold harmless the Sender and its employees, agents, trustees, officers, directors, and affiliates from any and all losses, liabilities, and damages (including reasonable attorney’s fees) that are a result of or related to (a) Recipient’s negligence or willful misconduct or omission or (b) a material breach of this Agreement.
11. **Use of Name**. Neither Sender nor Recipient shall use the names or trademarks of the other party or of any of the respective party’s affiliated entities in any advertising, publicity, endorsement, media relations or promotion unless prior written consent has been obtained for the particular use contemplated; except that as described in Section 13 (Publications). If the Recipient is contacted by the media, Recipient is responsible for immediately informing Sender of such media inquiries.
12. **Publications**. All publications and presentations resulting from the use of the De-Identified Data Set must explicitly state that the original research using the De-Identified Data Set was conducted by Recipient and that the current author has been granted special permission to use the dataset for independent, non-commercial research. All publications and presentations resulting from the De-Identified Data Set must include the following acknowledgement: “The analysis and opinions presented in this [report, article, etc.] are those of the author(s) and do not necessarily reflect the views of PicnicHealth and its affiliates.” Any publication, abstract, poster, presentation or other dissemination of results from any analysis using this data must credit Sender as follows: “Data used in this analysis are generated by PicnicHealth Real-World Data (RWD) platform and sponsored by Neurocrine Biosciences.”
13. **Intellectual Property**. Ownership of intellectual property existing as of the Effective Date is not affected by this Agreement, and no Party will have any claims to or rights in any pre-existing intellectual property of any other Party. “Picnic Property” shall be the sole and exclusive property of Sender. Recipient shall not, during or after this Agreement, be entitled to, or claim any right, title or interest, including any license, in or to such Picnic Property or any commission, fee, royalty or other direct or indirect benefit from Sender with respect to such Picnic Property. “Picnic Property” means, except as expressly permitted under this Agreement, (a) data, results, materials, products, know-how, information, inventions, and discoveries, whether tangible or intangible, and whether in interim or final form, and (b) any invention development, discovery, innovation, suggestion, idea, work of authorship, report, in each case, whether or not patentable, conceived, created, adopted, or reduced during and as a result of the use of the De-Identified Data Set (“**Picnic Work Product**”). The De-Identified Data Set will remain the sole property of Sender; will be used only in furtherance of the Study in accordance with this Agreement; (will not be used for the benefit of, or delivered to, any third party without the prior written consent of Sender; and will be used in compliance with all applicable laws, rules and regulations. The Parties hereby agree that De-Identified Data Set, including without limitation any and all data elements and data sets provided to Sender or created by Sender with the use of De-Identified Data Set, shall be and remain the exclusive property of Sender; provided, however, that any research or other findings discovered or created by Recipient through the use of Sender’s De-Identified Data Set as permitted by this Agreement, which the Parties agree are subject to Confidentiality and data use requirements under this Agreement, shall not be considered Picnic Property, and Recipient will retain the right to use such research or other findings, as applicable.
14. **Miscellaneous**.
15. **Notices**. All notices required in connection with this Agreement will be in writing and deemed effectively given: (i) upon personal delivery to the Party or (ii) one (1) business day after deposit with a nationally/internationally recognized overnight courier that provides tracking and verification of delivery. All notices shall be sent to the addresses listed on the signature page or at such other address(es) as a Party may designate by advance written notice to the other Party consistent with this Section.
16. **No Third Party Beneficiary**. Recipient and Sender agree that Individuals are not third-party beneficiaries of this Agreement.
17. **No Assignment**. This Agreement may not be assigned by Recipient without the prior written consent of Sender.
18. **Governing Law; Venue**. This Agreement shall be governed by and construed in accordance with the laws of the State of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and venue for any actions relating to this Agreement shall be in the county where Sender is located.
19. **Severability**. In the event that any provision of this Agreement violates any applicable statute, ordinance or rule of law in any jurisdiction that governs this Agreement, such provision shall be ineffective to the extent of such violation without invalidating any other provision of this Agreement.
20. **Applicability of Terms; Conflicts**. As of the Effective Date, this Agreement automatically amends all existing agreements between Recipient and Sender involving the use or disclosure of a De-Identified Data Set for the Protocol. In the event of any conflict or inconsistency between a provision of this Agreement and a provision of any other agreement between Recipient and Sender regarding the Protocol, the provision of this Agreement shall control unless: (i) Sender specifically agrees to the contrary in writing, or (ii) the provision in such other agreement establishes additional rights for Sender or additional duties for or restrictions on Recipient with respect to a De-Identified Data Set, in which case the provision of such other agreement will control.
21. **Amendment; Waiver**. This Agreement may not be amended, altered or modified except by written agreement signed by Recipient and Sender. No provision of this Agreement may be waived except by an agreement in writing signed by the waiving Party. A waiver of any term or provision shall not be construed as a waiver of any other term or provision.
22. **Independent Contractor**. Each of Recipient and Principal Investigator’s relationship to Sender under this Agreement is that of an independent contractor, and neither Recipient nor Principal Investigator has the authority to bind or act on behalf of Sender.
23. **Counterparts**. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which taken together shall constitute one and the same Agreement. The counterparts of this Agreement may be executed and delivered by email, portable document format (.pdf), or other electronic signature by any of the parties to any other Party and the receiving Party may rely on the receipt of such document so executed and delivered by electronic means as if the original had been received.
24. **Counterparts**. This Agreement may be executed in any number of counterparts which, when taken together, will constitute one original, and photocopy, electronic or other copies shall have the same effect for all purposes as an ink-signed original.

**[Signature Page to Follow.]**

IN WITNESS WHEREOF, this Agreement has been executed by the Parties through their duly authorized representatives as of the Effective Date.

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| --- | --- |
| RECIPIENT:  By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Address(es) for notices:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Attn: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| SENDER:  By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Address(es) for notices:    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Attn: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
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**Exhibit A**

**De-Identified Data Set Elements**

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| **Table** | **Description** |
| cohort\_primary\_condition | This table contains key information about the primary condition for this cohort (Classic CAH) including Classic CAH start date. |
| cohort\_condition | This table details the presence of conditions of interest for this classic CAH cohort, including: infertility, acne, fatigue, insomnia, testicular tumor of adrenogenital syndrome. |
| cohort\_condition\_occurrence | This table details the presence of repeatable conditions of interest for this classic CAH cohort, including: adrenal crisis. |
| cohort\_drug\_era | This table contains classic CAH drug treatment, including: drug name, dose value, dose unit, dose number of times, dose interval, dose interval unit, dose time of day, dose route, regimen, start date, end date, stop reason. |
| cohort\_measurement\_occurrence | This table contains all unique measurement occurrences for important classic CAH metrics, including: DEXA z-scores, DEXA t-scores, bone age, Tanner stage. |
| cohort\_observation\_occurrence | This table details the presence of observations of interest for this classic CAH cohort, including non-compliance of drug therapy. |
| survey | The surveys that were administered along with other survey-level information (e.g., survey name, recurring type, etc.) |
| survey\_question | The questions contained within a given survey and associated metadata. |
| survey\_response\_attribute | Participant responses to survey questions. |
| survey\_session | Survey completion datetimes per survey participant. |
| person | Provides demographic, enrollment, and withdrawal collected per person |
| visit\_condition\_occurrence | Includes every coded condition on a “Problem List”, “Assessment/Visit Diagnosis”, and “Discharge Diagnosis” list. |
| visit\_medication\_list\_occurrence | Includes every medication on a visit “Medication list”. |
| procedure\_occurrence | All known procedures for the patient that resulted in a procedure report. |
| measurement\_occurrence | A unique occurrence of a vital sign or laboratory measurement. |
| care\_site | Includes information about where healthcare was delivered. Derived from a source table within PicnicHealth's proprietary healthcare system information database. |
| document | Contains general information about each clinical document or report segmented out of the medical record. |
| provider | Includes information about individuals providing healthcare services. Derived from a source table within PicnicHealth's proprietary provider information database. |
| visit | Contains information about patient encounters with the healthcare system. |
| concept | Comprehensive list of concepts that uniquely identify each fundamental unit of meaning used to express clinical information within the dataset. Concepts are either defined by OMOP or created by PicnicHealth. |
| concept\_ancestor | Identifies direct and indirect hierarchical associations. Includes OMOP ancestor and descendent concepts with levels of separation. |
| concept\_relationship | Depicts hierarchical and lateral relationships between source and destination concepts. Comes primarily from OMOP. |
| drug\_to\_ingredient\_map | Provides a convenient mapping of drug names to their primary active ingredient. Derived from Concept Ancestor table. |

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| --- | --- | --- | --- |
| **Table Type** | **Table** | **Field** | **Description** |
| Cohort - Clinical | cohort\_primary\_condition | cohort\_primary\_condition\_id | Primary key |
| Cohort - Clinical | cohort\_primary\_condition | person\_id | Unique identifier for a person |
| Cohort - Clinical | cohort\_primary\_condition | condition\_concept\_id | Foreign key for condition\_concept\_name in Concept table |
| Cohort - Clinical | cohort\_primary\_condition | condition\_concept\_name | Name of condition concept per standard terminology |
| Cohort - Clinical | cohort\_primary\_condition | start\_date | Date of diagnosis |
| Cohort - Clinical | cohort\_primary\_condition | start\_date\_precision | Precision of date of diagnosis |
| Cohort - Clinical | cohort\_primary\_condition | start\_date\_known | Indicates true date of diagnosis vs earliest date known to have the diagnosis |
|  |  |  |  |
| Cohort - Clinical | cohort\_condition | cohort\_condition\_id | Primary key |
| Cohort - Clinical | cohort\_condition | person\_id | Unique identifier for a person |
| Cohort - Clinical | cohort\_condition | condition\_concept\_id | Foreign key for condition\_concept\_name in Concept table |
| Cohort - Clinical | cohort\_condition | condition\_concept\_name | Condition name |
| Cohort - Clinical | cohort\_condition | start\_date | Date of diagnosis |
| Cohort - Clinical | cohort\_condition | start\_date\_precision | Precision of date of diagnosis |
| Cohort - Clinical | cohort\_condition | start\_date\_known | Indicates true date of diagnosis vs earliest date known to have the diagnosis |
| Cohort - Clinical | cohort\_condition | laterality | The side of the body. |
|  |  |  |  |
| Cohort - Clinical | cohort\_condition\_occurrence | cohort\_condition\_occurrence\_id | Primary key |
| Cohort - Clinical | cohort\_condition\_occurrence | person\_id | Unique identifier for a person |
| Cohort - Clinical | cohort\_condition\_occurrence | condition\_concept\_id | Foreign key for condition\_concept\_name in Concept table |
| Cohort - Clinical | cohort\_condition\_occurrence | condition\_concept\_name | Condition name |
| Cohort - Clinical | cohort\_condition\_occurrence | start\_date | Condition start date |
| Cohort - Clinical | cohort\_condition\_occurrence | start\_date\_precision | Precision of condition start date |
|  |  |  |  |
| Cohort - Clinical | cohort\_drug\_era | cohort\_drug\_era\_id | Primary key |
| Cohort - Clinical | cohort\_drug\_era | person\_id | Unique identifier for a person |
| Cohort - Clinical | cohort\_drug\_era | drug\_concept\_id | Foreign key for drug\_concept\_name in Concept table |
| Cohort - Clinical | cohort\_drug\_era | drug\_concept\_name | Drug name |
| Cohort - Clinical | cohort\_drug\_era | start\_date | The start of the drug era |
| Cohort - Clinical | cohort\_drug\_era | start\_date\_precision | Precision of drug era start |
| Cohort - Clinical | cohort\_drug\_era | start\_date\_known | Indicates true drug start vs earliest date known to be taking the drug |
| Cohort - Clinical | cohort\_drug\_era | end\_date | The end of the drug era |
| Cohort - Clinical | cohort\_drug\_era | end\_date\_precision | Precision of drug era end |
| Cohort - Clinical | cohort\_drug\_era | end\_date\_known | Indicates true drug end vs last date known to be taking the drug |
| Cohort - Clinical | cohort\_drug\_era | stop\_reason | Reason for drug discontinuation |
| Cohort - Clinical | cohort\_drug\_era | regimen | Indicates whether a drug was taken at a regular frequency, single dose, as needed or unknown regimen. |
| Cohort - Clinical | cohort\_drug\_era | dose\_value | Total dose per administration |
| Cohort - Clinical | cohort\_drug\_era | dose\_unit | Unit of dose |
| Cohort - Clinical | cohort\_drug\_era | dose\_number\_of\_times | Number of times to be administered |
| Cohort - Clinical | cohort\_drug\_era | dose\_interval | Interval at which dose is administered |
| Cohort - Clinical | cohort\_drug\_era | dose\_interval\_unit | Unit of interval for dose |
| Cohort - Clinical | cohort\_drug\_era | dose\_time\_of\_day | Time of day that the dose should be taken (am, pm, bedtime, etc) |
| Cohort - Clinical | cohort\_drug\_era | dose\_route | Specifies the route of drug intake - oral, IV, IM, etc |
|  |  |  |  |
| Cohort - Clinical | cohort\_measurement\_occurrence | cohort\_measurement\_occurrence\_id | Primary key |
| Cohort - Clinical | cohort\_measurement\_occurrence | person\_id | Unique identifier for a person |
| Cohort - Clinical | cohort\_measurement\_occurrence | measurement\_concept\_id | Foreign key for measurement\_concept\_name in Concept table |
| Cohort - Clinical | cohort\_measurement\_occurrence | measurement\_concept\_name | Measurement name |
| Cohort - Clinical | cohort\_measurement\_occurrence | collection\_date | Date the measurement was collected |
| Cohort - Clinical | cohort\_measurement\_occurrence | collection\_date\_precision | Precision of the collection date |
| Cohort - Clinical | cohort\_measurement\_occurrence | value\_type | Specifies value type of the measurement (e.g. numeric, range) |
| Cohort - Clinical | cohort\_measurement\_occurrence | value\_as\_number | Measurement value, when reported as a number |
| Cohort - Clinical | cohort\_measurement\_occurrence | unit | Unit associated with the measurement value |
| Cohort - Clinical | cohort\_measurement\_occurrence | measurement\_anatomic\_site | The site of the measurement. |
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| Cohort - Clinical | cohort\_observation\_occurrence | cohort\_observation\_occurrence\_id | Primary key for the Cohort Observation Occurrence table. |
| Cohort - Clinical | cohort\_observation\_occurrence | person\_id | Foreign key to Person table. |
| Cohort - Clinical | cohort\_observation\_occurrence | observation\_concept\_id | Foreign key to Concept table. |
| Cohort - Clinical | cohort\_observation\_occurrence | observation\_concept\_name | Name of observation. |
| Cohort - Clinical | cohort\_observation\_occurrence | observation\_date | The date the observation was observed. |
| Cohort - Clinical | cohort\_observation\_occurrence | observation\_date\_precision | Precision of the observation date. |
|  |  |  |  |
| Cohort - Survey | survey | survey\_id | A unique identifier for each administered survey. |
| Cohort - Survey | survey | survey\_name | Name of the survey. |
| Cohort - Survey | survey | survey\_title | Patient-facing title of the survey. |
| Cohort - Survey | survey | survey\_subtitle | Patient-facing description of the survey. |
| Cohort - Survey | survey | respondent\_type | A description of the person taking the survey. Allowable values include "PATIENT", "CAREGIVER", or "NOT\_SPECIFIED." When "NOT\_SPECIFIED", a person can take the survey about themselves, or caregivers can take the survey on a person's behalf. |
| Cohort - Survey | survey | recurring\_event\_type | A description of whether the survey is available to take once ("NONE") or on a recurring cadence (events include "LAST\_SURVEY\_SENT" or "LAST\_SURVEY\_COMPLETED.") |
| Cohort - Survey | survey | recurring\_event\_delay\_value | The length of time value between recurring events. |
| Cohort - Survey | survey | recurring\_event\_delay\_precision | The precision of the value. |
|  |  |  |  |
| Cohort - Survey | survey\_question | survey\_question\_id | Primary key |
| Cohort - Survey | survey\_question | survey\_name | Name of the survey. |
| Cohort - Survey | survey\_question | survey\_id | A unique identifier for each administered survey. |
| Cohort - Survey | survey\_question | question\_text | Question text as a string. |
| Cohort - Survey | survey\_question | question\_name | An abbreviated version of the question text. |
| Cohort - Survey | survey\_question | question\_id | A unique identifier for each question. |
| Cohort - Survey | survey\_question | question\_group | The group of the survey question. |
| Cohort - Survey | survey\_question | question\_sequence | The order of the question within a survey. |
| Cohort - Survey | survey\_question | question\_page\_number | The page containing the survey question. |
| Cohort - Survey | survey\_question | question\_type | Question type or format - for example, multiple choice or text entry. |
| Cohort - Survey | survey\_question | choices | The allowable answers, for questions with a forced set of responses. |
| Cohort - Survey | survey\_question | is\_required | Indicates whether a question must be answered to continue with the survey. If TRUE and there is no corresponding response, then the responder was not presented the question. |
| Cohort - Survey | survey\_question | field\_configuration | Indicates fields for multiple field survey questions. |
|  |  |  |  |
| Cohort - Survey | survey\_response\_attribute | survey\_response\_attribute\_id | Primary key |
| Cohort - Survey | survey\_response\_attribute | survey\_question\_response\_id | The unique identifier of a response to a question. Responses may contain multiple response items. Each attribute for a response item is assigned a unique survey\_response\_attribute\_id, but the group of response items share the same survey\_question\_response\_id. |
| Cohort - Survey | survey\_response\_attribute | person\_id | The person taking the survey. Foreign key to the Person table. |
| Cohort - Survey | survey\_response\_attribute | survey\_name | Name of the survey. |
| Cohort - Survey | survey\_response\_attribute | survey\_id | Foreign key to the Survey table |
| Cohort - Survey | survey\_response\_attribute | survey\_session\_id | Foreign key to the Survey Session table. |
| Cohort - Survey | survey\_response\_attribute | completed\_date | Date the survey was completed. |
| Cohort - Survey | survey\_response\_attribute | question\_text | Question text as a string |
| Cohort - Survey | survey\_response\_attribute | survey\_question\_id | Foreign key to the Survey Question table. |
| Cohort - Survey | survey\_response\_attribute | question\_sequence | The sequence the question appears within a survey. |
| Cohort - Survey | survey\_response\_attribute | response\_item\_index | The index number of the one or more response items provided in a question response. |
| Cohort - Survey | survey\_response\_attribute | response\_item\_attribute\_index | The index number of an attribute within a response item. |
| Cohort - Survey | survey\_response\_attribute | response\_attribute\_name | The name of an attribute within a response item. |
| Cohort - Survey | survey\_response\_attribute | response\_attribute\_value | The value for an attribute within a response item. |
| #REF! |  |  |  |
| Cohort - Survey | survey\_session | survey\_session\_id | Primary key. A unique instance of a person taking a survey. |
| Cohort - Survey | survey\_session | person\_id | The person taking the survey. Foreign key to the person table. |
| Cohort - Survey | survey\_session | survey\_name | Name of the survey. |
| Cohort - Survey | survey\_session | survey\_id | Foreign key to the survey table |
| Cohort - Survey | survey\_session | completed\_date | The date the survey was completed. |
|  |  |  |  |
| Global - General Clinical | person | person\_id | Primary key for Person table. |
| Global - General Clinical | person | birth\_date | Person's date of birth (often deidentified by raising the precision to MONTH or YEAR). |
| Global - General Clinical | person | birth\_date\_precision | Precision of date of birth, using the most specific unit allowed by deidentification guidelines. |
| Global - General Clinical | person | sex | Person's biological sex, limited to female or male. |
| Global - General Clinical | person | race | Race value recorded for the person. |
| Global - General Clinical | person | ethnicity | Ethnicity value recorded for the person. |
| Global - General Clinical | person | death\_date | Date of death, if available. |
| Global - General Clinical | person | death\_date\_precision | Precision of the date of death. The most specific unit explicitly supported in the record. |
| Global - General Clinical | person | enrollment\_date | Date when the person added their first doctor or medical facility on the platform. |
| Global - General Clinical | person | withdrawn\_date | Date the person was withdrawn from the study. |
|  |  |  |  |
| Global - General Clinical | visit\_condition\_occurrence | visit\_condition\_occurrence\_id | A coded problem list condition or visit diagnosis within a medical visit. |
| Global - General Clinical | visit\_condition\_occurrence | person\_id | The person associated with the condition. |
| Global - General Clinical | visit\_condition\_occurrence | condition\_concept\_name | Condition name |
| Global - General Clinical | visit\_condition\_occurrence | condition\_concept\_id | Condition id |
| Global - General Clinical | visit\_condition\_occurrence | section | Indicates whether a condition is coming from a problem list, visit diagnosis/assessment, or discharge diagnosis section of the record. |
| Global - General Clinical | visit\_condition\_occurrence | visit\_id | The visit where the condition was reported. |
|  |  |  |  |
| Global - General Clinical | visit\_medication\_list\_occurrence | visit\_medication\_list\_occurrence\_id | The occurrence of a medication on a visit medication list. |
| Global - General Clinical | visit\_medication\_list\_occurrence | person\_id | The person associated with the drug. |
| Global - General Clinical | visit\_medication\_list\_occurrence | drug\_concept\_name | Drug name |
| Global - General Clinical | visit\_medication\_list\_occurrence | drug\_concept\_id | Drug id |
| Global - General Clinical | visit\_medication\_list\_occurrence | visit\_id | The visit where the drug was reported. |
|  |  |  |  |
| Global - General Clinical | procedure\_occurrence | procedure\_occurrence\_id | A unique procedure occurrence for a person. |
| Global - General Clinical | procedure\_occurrence | person\_id | The person on whom the procedure was performed. |
| Global - General Clinical | procedure\_occurrence | procedure\_concept\_name | Procedure name |
| Global - General Clinical | procedure\_occurrence | procedure\_concept\_id | Procedure id |
| Global - General Clinical | procedure\_occurrence | start\_date | Procedure start date |
| Global - General Clinical | procedure\_occurrence | start\_date\_precision | Precision of the procedure start date. The most specific unit explicitly supported in the record. |
| Global - General Clinical | procedure\_occurrence | visit\_id | The visit when the procedure was performed or referenced. |
|  |  |  |  |
| Global - General Clinical | measurement\_occurrence | measurement\_occurrence\_id | A unique occurrence of a measurement. |
| Global - General Clinical | measurement\_occurrence | person\_id | The person associated with the measurement. |
| Global - General Clinical | measurement\_occurrence | visit\_id | The visit where the measurement was collected. |
| Global - General Clinical | measurement\_occurrence | measurement\_concept\_name | Measurement name |
| Global - General Clinical | measurement\_occurrence | measurement\_concept\_id | Measurement id |
| Global - General Clinical | measurement\_occurrence | collection\_date | Measurement collection date |
| Global - General Clinical | measurement\_occurrence | collection\_date\_precision | Precision of the collection date. The most specific unit explicitly supported in the record. |
| Global - General Clinical | measurement\_occurrence | value\_type | Measurement data type (e.g. number, range, string, etc) |
| Global - General Clinical | measurement\_occurrence | value\_as\_number | A numerical representation of the value, if the value\_type is number. (e.g. 7) |
| Global - General Clinical | measurement\_occurrence | value\_as\_range\_type | The type of range, if the value\_type is range. (e.g. between, greaterThan, lessThanOrEqualTo) |
| Global - General Clinical | measurement\_occurrence | value\_as\_range\_low | The low value in a range, if the value\_type is range. (e.g. 5 if the value is ">5", 1 if the value is "1-2") |
| Global - General Clinical | measurement\_occurrence | value\_as\_range\_high | The high value in a range, if the value\_type is range. (e.g. 7 if the value is "<7", 2 if the value is "1-2") |
| Global - General Clinical | measurement\_occurrence | value\_as\_concept | A concept name representation of the value, if the value\_type is concept. (e.g. "Reactive") |
| Global - General Clinical | measurement\_occurrence | value\_as\_string | A string representation of the value, if the value\_type is string. (e.g. "Normal morphology") |
| Global - General Clinical | measurement\_occurrence | value\_as\_ratio | A ratio representation of the value, if the value type is ratio. (e.g. 1:40) |
| Global - General Clinical | measurement\_occurrence | value\_as\_ratio\_range | A ratio range representation of the value, if the value\_type is ratioRange. (e.g. >1:250) |
| Global - General Clinical | measurement\_occurrence | unit | Unit of the measurement value. |
| Global - General Clinical | measurement\_occurrence | reference\_range\_type | The type of the reference range obtained from the measurement, when reported. |
| Global - General Clinical | measurement\_occurrence | reference\_range\_as\_ratio | A ratio representation of the reference range, if the reference\_range\_type is ratio. |
| Global - General Clinical | measurement\_occurrence | reference\_range\_as\_ratio\_range | A ratio range representation of the reference range, if the reference\_range\_type is ratioRange. |
| Global - General Clinical | measurement\_occurrence | reference\_range\_as\_range\_type | The type of range, if the reference\_range\_type is range. (e.g. between, greaterThan, lessThanOrEqualTo) |
| Global - General Clinical | measurement\_occurrence | reference\_range\_as\_range\_low | The low value in a range, if the reference\_range\_type is range. (e.g. 5 if the value is ">5", 1 if the value is "1-2") |
| Global - General Clinical | measurement\_occurrence | reference\_range\_as\_range\_high | The high value in a range, if the reference\_range\_type is range. (e.g. 7 if the value is "<7", 2 if the value is "1-2") |
| Global - General Clinical | measurement\_occurrence | reference\_range\_as\_string | A string representation of the reference range, if the reference\_range\_type is string. |
| Global - General Clinical | measurement\_occurrence | reference\_range\_as\_number | A numeric representation of the reference range, if the reference\_range\_type is number. |
| Global - General Clinical | measurement\_occurrence | reference\_range\_as\_concept | A concept name representation of the reference range, if the reference\_range\_type is concept. |
|  |  |  |  |
| Global - Health System | care\_site | care\_site\_id | Primary key for Care Site table. |
| Global - Health System | care\_site | care\_site\_name | Name of the care site. |
| Global - Health System | care\_site | address\_1 | Care site address line 1. |
| Global - Health System | care\_site | city | City in which the care site is located. |
| Global - Health System | care\_site | state\_province | State or province in which the care site is located. Includes 50 US states, DC, U.S. territories, & military bases. |
| Global - Health System | care\_site | postal\_code | Five-digit postal code in which the care site is located. |
|  |  |  |  |
| Global - Health System | document | document\_id | A clinical document detailing an interaction between a person and the healthcare system. |
| Global - Health System | document | person\_id | The subject of record for the document. |
| Global - Health System | document | document\_date | The date of the encounter for which the report was generated. |
| Global - Health System | document | document\_type | Type of document |
| Global - Health System | document | specialty | The medical specialty of focus for the document. |
| Global - Health System | document | visit\_id | The visit for which the document was created. |
| Global - Health System | document | care\_site\_id | Foreign key to Care Site table. |
| Global - Health System | document | provider\_id | Foreign key to Provider table. |
|  |  |  |  |
| Global - Health System | provider | provider\_id | Primary key to Provider table. |
| Global - Health System | provider | credential | The credential associated with a given Provider. |
| Global - Health System | provider | specialty | Provider's medical specialty. |
|  |  |  |  |
| Global - Health System | visit | visit\_id | Primary key for Visit table. |
| Global - Health System | visit | person\_id | Foreign key to Person table. |
| Global - Health System | visit | visit\_start\_date | Date visit started. |
| Global - Health System | visit | visit\_end\_date | Date visit ended (will be the same as start date if visit is single day). |
| Global - Health System | visit | visit\_type | The setting of the visit. (Outpatient Visit, Inpatient Visit, etc) |
|  |  |  |  |
| Global - Vocabulary | concept | concept\_id | Primary key for Concept table. |
| Global - Vocabulary | concept | concept\_name | Concept name |
| Global - Vocabulary | concept | omop\_concept\_id | Unique identifier for the concept defined by OMOP. |
| Global - Vocabulary | concept | is\_standard | Indicates if the concept is an official concept designated by OMOP to represent a unique clinical entity. |
| Global - Vocabulary | concept | domain\_concept\_code | Identifier for the concept within a concept vocabulary. Note that concept codes are not unique across vocabularies. |
| Global - Vocabulary | concept | vocabulary | Name of the vocabulary to which the concept belongs. |
| Global - Vocabulary | concept | vocabulary\_version | Version of the vocabulary to which the concept belongs. |
|  |  |  |  |
| Global - Vocabulary | concept\_relationship | concept\_relationship\_id | Primary key for Concept Relationship table. |
| Global - Vocabulary | concept\_relationship | concept\_id\_1 | Foreign key to Concept table. |
| Global - Vocabulary | concept\_relationship | concept\_name\_1 | Name of source concept. Relationships are directional, and this field represents the source concept designation. |
| Global - Vocabulary | concept\_relationship | relationship | Relationship from the source concept (concept\_id\_1) to the destination concept (concept\_id\_2). |
| Global - Vocabulary | concept\_relationship | concept\_id\_2 | Foreign key to Concept table. |
| Global - Vocabulary | concept\_relationship | concept\_name\_2 | Name of destination concept. Relationships are directional, and this field represents the destination concept designation. |
|  |  |  |  |
| Global - Vocabulary | concept\_ancestor | concept\_ancestor\_id | Primary key for Concept Ancestor table. |
| Global - Vocabulary | concept\_ancestor | ancestor\_concept\_id | Foreign key to Concept table. |
| Global - Vocabulary | concept\_ancestor | ancestor\_concept\_name | Ancestor concept name. References the higher-level concept that forms the ancestor in the relationship. |
| Global - Vocabulary | concept\_ancestor | descendant\_concept\_id | Foreign key to Concept table. |
| Global - Vocabulary | concept\_ancestor | descendant\_concept\_name | Descendant concept name. References the lower-level concept that forms the descendant in the relationship. |
| Global - Vocabulary | concept\_ancestor | min\_levels\_of\_separation | Minimum separation in number of hierarchical levels between ancestor and descendant concepts. |
| Global - Vocabulary | concept\_ancestor | max\_levels\_of\_separation | Maximum separation in number of hierarchical levels between ancestor and descendant concepts. |
|  |  |  |  |
| Global - Vocabulary | drug\_to\_ingredient\_map | drug\_to\_ingredient\_map\_id | Primary key for Drug To Ingredient Map table. |
| Global - Vocabulary | drug\_to\_ingredient\_map | drug\_concept\_id | Foreign key to Concept table. |
| Global - Vocabulary | drug\_to\_ingredient\_map | drug\_concept\_name | Name of the OMOP concept for the drug. |
| Global - Vocabulary | drug\_to\_ingredient\_map | ingredient\_concept\_id | Foreign key to Concept table. |
| Global - Vocabulary | drug\_to\_ingredient\_map | ingredient\_concept\_name | Name of the OMOP concept for the drug's active ingredient. |
| Global - Vocabulary | drug\_to\_ingredient\_map | vocabulary\_version | Version of the vocabulary the concept belongs to. |