## **AsthmaNet Microbiome Data Documentation for BioLINCC**

## Microbiome Study Forms, Data sets and Variables

Each CRF has an abbreviated name located in a shaded box in the lower right-hand corner of the form. Abbreviated CRF names beginning with a 'P3\_' prefix are specific to the Microbiome protocol; data associated with these Microbiome-specific forms are stored in a corresponding data file of the same name with the 'P3\_' prefix removed. A listing of each CRF and data set name is included in Table 1.

Variable names for a particular CRF begin with a prefix assigned to that form followed by an underscore and the number of the field; prefixes for each form can be found in Table 1. Fields within each CRF are usually numbered sequentially and are located (in most cases) in parentheses on the left hand side of the responses to each question.

For example, data regarding adverse events experienced by the Microbiome subjects are collected on the Clinical Adverse Events form (form name AECLIN). Corresponding data are stored in file aeclin.sas7bdat. The variable name corresponding to the ICD9 code for a particular adverse event (field #1010) on the Clinical Adverse Events form is aec\_1010.

Where no form name is given in Table 1, no CRF existed for collection of the relevant information during study implementation. Where no dataset name is given, the corresponding "form" was simply a reference card that was used to explain some element of data collection.

Table 2 below shows the CRFs that were completed at each study visit, either routinely or only on an as-needed basis.

## **Standard Data Edits**

Each Microbiome CRF includes a set of key variables in the upper right-hand corner. These variables may include: Participant ID (part\_id), participant initials, visit number (vnum), visit/current date (vdate), and interviewer/technician/supervisor/coordinator ID. For the purpose of de-identifying the dataset, the following standard changes were applied to the key variables for all public use datasets:

- Participant initials were omitted.
- All visit dates were converted to intervals representing the number of days from the participant's Visit 0 (initial screen visit).
- All interviewer/technician/supervisor/coordinator IDs were omitted.

In addition, the following changes were made to all public use data sets:

- All dates collected within a given CRF were converted to days from Visit 0. Unless otherwise noted, converted dates were stored in the original variable names given on the CRFs.
- Data collected in source documentation boxes or fields (for example, snq\_1050, snq\_1060, snq\_1070 from the Sinonasal Questionnaire (SNQ) form) were omitted from the public datasets. Variables in the source documentation boxes remain annotated on the forms but they were not included in the datasets.
- Comment fields and text descriptions related to a given question were deleted. These fields contain free text which may include dates or other participant-related details that risk possible identification.

Note the 'vnum\_c' variable is a character variable representing the visit numbers as outlined in the protocol, with the phone contact between Visits 3 and V4 denoted with 'vnum\_c' of 3A. Variable 'vnum' is a corresponding numeric variable that was assigned for ease of sorting the data in chronological order, with 'vnum\_c' of 3A having 'vnum' of 3.01. For the remainder of the visits, 'vnum\_c' and 'vnum' values are identical.

Any additional changes made to a given dataset are summarized in Table 1 below.

## **Background**

One hundred eighty-six (186) individuals had Phadiatop screening at Microbiome Visit 0. Of the 186 screened, 102 were characterized as having asthma. Of those, 27 allergic non-asthmatics, 27 non-allergic non-asthmatics and 67 allergic asthmatics entered the run-in. Among the non-asthmatics, 21 allergic and 21 non-allergic individuals completed Visit 2, ending their participation in Microbiome. Among the asthmatics, 42 were randomized at Visit 2 to receive either ICS (N=28) or matched placebo (N=14) until Visit 5. At Visit 5, participants were placed on open-label ICS until returning for Visit 6.

The primary hypothesis of the Microbiome trial was: The microbiota of the bronchial airways of allergic asthmatic, allergic non-asthmatic, and non-allergic, non-asthmatic healthy subjects differ in diversity, richness, evenness, and/or taxanomic composition.

Visit numbers for the Microbiome data generally match the numbers outlined in the protocol (i.e., Visits 0 through 6).

**Table 1. Microbiome Forms and Datasets** 

| Form Name<br>Abbreviation | Dataset Name             | Variable<br>Prefix | Form Name or Description         | Field Changes/ Comments  |
|---------------------------|--------------------------|--------------------|----------------------------------|--|
| ACQ                       | acq.sas7bdat             | acq                | Asthma Control Questionnaire     | <ul> <li>Used with permission from Elizabeth         Juniper</li> <li>6 question version of questionnaire         (excluding FEV<sub>1</sub>) used</li> </ul>  |
| AECLIN                    | aeclin.sas7bdat          | aec                | Clinical Adverse Events          | <ul> <li>aec_1020, aec_1030 (dates) were altered as described above</li> <li>aec_1000 is a sequential number assigned to each adverse event within a participant (starting from 01 up to 99)</li> <li>Variables added to this dataset include:         <ul> <li>icd9_cat: ICD-9 category</li> <li>icd9long: Full description of ICD-9 code</li> <li>icd9shrt: abbreviated description of ICD-9 code</li> </ul> </li> <li>The dataset used to code adverse events and link to descriptions was downloaded from <ul> <li>www.cms.gov</li> <li>ICD-9-CM Diagnosis and Procedure Codes: Abbreviated and Full Code Titles effective October 1, 2009 were used.</li> </ul> </li> </ul> |
| ASTHMA_HX_ADULT           | asthma_hx_adult.sas7bdat | aha                | Adult Asthma and Allergy History | <ul> <li>aha_1400D, aha_1410D, aha_1420D,<br/>aha_1460D were deleted (description<br/>fields)</li> <li>aha_6000 was deleted (comment field)</li> </ul>   |
|                           | bmi.sas7bdat             |                    | Body Mass Index                  | File contains the following variables:  • 'part_id' = participant ID number  • 'bmi' = body mass index computed from height and weight measured at Visit 1   |

| Form Name<br>Abbreviation | Dataset Name           | Variable<br>Prefix  | Form Name or Description   | Field Changes/ Comments   |  |  |
|---------------------------|------------------------|---|--|---|--|--|
| CMED cmed.sas/bdat cme    |                        | Concomitant Medications for<br>Asthma/Allergy and Adverse<br>Events | <ul> <li>cme_1060, cme_1070 (dates) have been altered as described above</li> <li>cme_1000 is a sequential number assigned to each medication within a participant (starting from 01 up to 99)</li> <li>Variables added to this dataset include:         <ul> <li>class: drug class text</li> <li>class_id: class ID number</li> <li>gen_name: generic drug name</li> <li>Units (cme_1040), frequency (cme_1050) and route (cme_1055) contain formatted values</li> </ul> </li> <li>Drug codes and classes were obtained from the American Society of Health-System Pharmacists, Inc. drug coding system (AsthmaNet purchased a license</li> </ul> |   |  |  |
| COLD_HX                   | cold_hx.sas7bdat       | chx   | Cold History   | to use and update the data annually)  • chx_1000D was deleted (description field)  • chx_6000 was deleted (comment field)   |  |  |
| HEQ                       | heq.sas7bdat           | heq   | Home Environment<br>Questionnaire  | <ul> <li>heq_1710, heq_1720 were deleted<br/>(source doc fields)</li> <li>heq_1000D, heq_1160D, heq_1250D,<br/>heq_1340D, heq_1410D, heq_1420D,<br/>heq_1460D, heq_1620D were deleted<br/>(description fields)</li> <li>heq_6000 was deleted (comment field)</li> </ul> |  |  |
| HOUSEHOLD_SEI             | household_sei.sas7bdat | sei   | Household Socio-Economic Information   | sei_1000D was deleted (description field)     sei_6000 was deleted (comment field)  |  |  |
| METHA                     | metha.sas7bdat         | mth   | Methacholine Challenge Testing   | • mth_6000 was deleted (comment field)  |  |  |

| Form Name<br>Abbreviation | Dataset Name              | Variable<br>Prefix | Form Name or Description                                    | Field Changes/ Comments   |
|---------------------------|---------------------------|--------------------|---|---|
| METHACHK_ADULT            | methachk_adult.sas/bdat   | mca                | Adult Methacholine Challenge<br>Testing Checklist           | mca_1100D was deleted (description field)     mca_6000 was deleted (comment field)  |
| METHA_ADD_TRT             | metha_add_trt.sas7bdat    | mad                | Additional Treatment Post<br>Methacholine Challenge Testing | <ul> <li>mad_1240, mad_1250, mad_1260 were deleted (source doc fields)</li> <li>mad_1060D, mad_1190D were deleted (description fields)</li> <li>mad_6000 was deleted (comment field)</li> </ul>   |
| PALB4_SPIRO               | palb4_spiro.sas7bdat      | pa4                | Post-Albuterol (4 puffs) Spirometry Testing                 | • pa4_6000 was deleted (comment field)  |
| PREG_TEST                 | preg_test.sas7bdat        | prg                | Urine Pregnancy Test  | <ul><li>prg_1050, prg_1060 were deleted<br/>(source doc fields)</li><li>prg_6000 was deleted (comment field)</li></ul>  |
| PRIOR_COND_ADULT          | prior_cond_adult.sas7bdat | pad                | Prior Conditions for Adult<br>Participants                  | <ul> <li>pad_1000D, pad_1010D, pad_1020D, pad_1030D, pad_1040D, pad_1050D, pad_1060D, pad_1070D, pad_1080D, pad_1090D, pad_1100D, pad_1110D, pad_1120D were deleted (description fields)</li> <li>pad_6000 was deleted (comment field)</li> </ul> |
| PRIOR_COND_ALL            | prior_cond_all.sas7bdat   | pal                | Prior Conditions for All<br>Participants                    | <ul> <li>pal_1000D, pal_1010D, pal_1060D, pal_1110D, pal_1130D, pal_1150D, pal_1170D, pal_1180D were deleted (description fields)</li> <li>pal_6000 was deleted (comment field)</li> </ul>  |

| Form Name<br>Abbreviation | Dataset Name       | Variable<br>Prefix | Form Name or Description                               | Field Changes/ Comments   |
|---------------------------|--------------------|--------------------|--|---|
| PRIOR_IRI                 | prior_trt.sas/bdat | ptr                | Prior Asthma/Allergy Treatment                         | <ul> <li>ptr_1000D, ptr_1470D, ptr_1500D, ptr_1600D, ptr_1830D, ptr_1870D, ptr_1910D were deleted (description fields)</li> <li>ptr_6000 was deleted (comment field)</li> <li>Date intervals for the medication dates in Questions 2-22 were stored in variables date_q02-date_q22. If day was missing, but month and year were present, we calculated the date using the 1<sup>st</sup> of the month. If only the year was present, no date interval was computed (i.e., missing data).</li> </ul>   |
| REGISTRY                  | registry.sas7bdat  | reg                | AsthmaNet Registry information, including demographics | <ul> <li>reg_1020, reg_1040, reg_1060 (dates) were altered as described above</li> <li>reg_1070 (birth date) was deleted; the participant's age at visit 0 was calculated and is stored in variable 'age' (as a whole number)</li> <li>ethnicity and individual race variables have been deleted due to sparseness (reg_1090, reg_1100, reg_1110, reg_1120, reg_1130, reg_1140)</li> <li>reg_1150 (primary racial identification) has been re-coded such that those who were in categories 1, 2 and 6 were included in the 'other' category (code 6)</li> <li>reg_1160 (description field) was deleted</li> </ul> |

| Form Name<br>Abbreviation | Dataset Name            | Variable<br>Prefix | Form Name or Description                      | Field Changes/ Comments  |  |  |  |  |
|---------------------------|-------------------------|--------------------|---|--|--|--|--|--|
| SERIOUS                   | serious.sas/bdat        | ser                | Serious Adverse Event<br>Reporting Form       | ser_1000, ser_1080, ser_1090 (dates)     were altered as described above     ser_1010D, ser_1180D, ser_1210D,     ser_1220D were deleted (description fields)     ser_6000 was deleted (comment field)                                 |  |  |  |  |
| SNQ                       | snq.sas7bdat            | snq                | Sinonasal Questionnaire                       | <ul> <li>snq_1050, snq_1060, snq_1070 were deleted (source doc fields)</li> <li>Permission was obtained from Anne Dixon, MD, lead author, to use the SNQ (CHEST 2009; 136:1324-1332) for Microbiome in the AsthmaNet format</li> </ul> |  |  |  |  |
| SPIRO                     | spiro.sas7bdat          | spi                | Spirometry Testing                            | • spi_6000 was deleted (comment field)   |  |  |  |  |
| SPUTLAB                   | sputlab.sas7bdat        | sla                | Sputum Induction Lab Values                   | sla_1000 (date) was altered as<br>described above     sla_6000 was deleted (comment field)   |  |  |  |  |
| SPUTREAD                  | sputread.sas7bdat       | sre                | Sputum Induction Read                         | <ul> <li>sre_1000 (date) was altered as described above</li> <li>sre_6000 was deleted (comment field)</li> <li>Cell counts were performed by a central overreader</li> </ul>   |  |  |  |  |
| SPUTUM                    | sputum.sas7bdat         | spu                | Sputum Induction                              | <ul> <li>spu_6000 was deleted (comment field)</li> </ul>   |  |  |  |  |
| SPUTUMCHK                 | sputumchk.sas7bdat      | sch                | Sputum Induction Checklist                    | sch_1060D was deleted (description field)     sch_6000 was deleted (comment field)   |  |  |  |  |
| SPUTUM_ADD_TRT            | sputum_add_trt.sas7bdat | sad                | Additional Treatment Post<br>Sputum Induction | • sad_1080, sad_1090, sad_1100 were deleted (source doc fields)  |  |  |  |  |

| Form Name<br>Abbreviation | Dataset Name         | Variable<br>Prefix | Form Name or Description  | Field Changes/ Comments   |
|---------------------------|----------------------|--------------------|---|---|
|                           | allergy.sas/bdat     |                    | Blood testing for Allergy results (includes, phadiatop, total IgE and allergen-specific IgE test results) | File contains the following variables:  • part  • phad  • ige  • re1  • re5  • re72  • rmx1  • ri6  • rgx2  • rtx4  • rtx6  • rwx1  • rw3  • rd2  • rd1   |
| P3_ASTHMA_LOG             | asthma_log.sas7bdat  | al                 | Microbiome Asthma Monitoring<br>Log   | ddate (date) was altered as described above     al_6000 was deleted (comment field)   |
| P3_BPD                    | bpd.sas7bdat         | bpd                | Microbiome Bronchoscopy Procedure Documentation   | <ul> <li>bpd_1140 bpd_1150 were deleted<br/>(source doc fields)</li> <li>bpd_1360D, bpd_1650D, bpd_1760D<br/>were deleted (description fields)</li> <li>bpd_6000 was deleted (comment field)</li> </ul> |
| P3_BRONCHCHK_A            | bronchchk_a.sas7bdat | bca                | Microbiome Bronchoscopy<br>Checklist Asthmatic  | <ul><li>bca_1100D was deleted (description field)</li><li>bca_6000 was deleted (comment field)</li></ul>  |
| P3_BRONCHCHK_C            | bronchchk_c.sas7bdat | bcc                | Microbiome Bronchoscopy<br>Checklist Control  | bcc_1100D was deleted (description field)     bcc_6000 was deleted (comment field)  |
| P3_COMPLY                 | comply.sas7bdat      | com                | Microbiome Compliance<br>Checklist  | com_6000 was deleted (comment field)  |

| Form Name<br>Abbreviation | Dataset Name        | Variable<br>Prefix | Form Name or Description  | Field Changes/ Comments  |  |  |
|---------------------------|---------------------|--------------------|---|--|--|--|
| P3_CTXQX                  | ctxqx.sas/bdat      | ctx                | Microbiome Coordinator Study Treatment Questionnaire  | ctx_1015D was deleted (description field) ctx_1020, ctx_1030 were deleted (source doc fields)  |  |  |
| P3_ELIG0A                 | elig0a.sas7bdat     | e0a                | e0a Microbiome Eligibility Checklist 0 Asthmatic  • e0a_1010 (date described above • e0a_1050D, e0 (description field • e0a_1360, e0a_ (source doc field • e0a_6000 was e |  |  |  |
| P3_ELIG0C                 | elig0c.sas7bdat e0c |                    | Microbiome Eligibility Checklist 0<br>Control   | • e0c_1010 (date) was altered as described above     • e0c_1050D, e0c_1130D were deleted (description fields)     • e0c_1360, e0c_1370 were deleted (source doc fields)     • e0c_6000 was deleted (comment field) |  |  |
| P3_ELIG1A                 | elig1a.sas7bdat     | e1a                | Microbiome Eligibility Checklist 1 Asthmatic  | <ul> <li>e1a_1040D, e1a_1050D were deleted (description fields)</li> <li>e1a_1080, e1a_1090 were deleted (source doc fields)</li> <li>e1a_6000 was deleted (comment field)</li> </ul>                              |  |  |
| P3_ELIG1C                 | elig1c.sas7bdat     | e1c                | Microbiome Eligibility Checklist 1<br>Control   | <ul> <li>e1c_1040D, e1c_1050D were deleted (description fields)</li> <li>e1c_1080, e1c_1090 were deleted (source doc fields)</li> <li>e1c_6000 was deleted (comment field)</li> </ul>                              |  |  |

| Form Name<br>Abbreviation | Dataset Name     | Variable<br>Prefix | Form Name or Description  | Field Changes/ Comments   |  |  |  |
|---------------------------|------------------|--------------------|---|---|--|--|--|
| P3_ELIG2A                 | elig2a.sas/bdat  | e2a                | Microbiome Eligibility Checklist 2 Asthmatic  | e2a_1000D, e2a_1070D were deleted (description fields)     e2a_1014, e2a_1017, e2a_1090, e2a_1100 were deleted (source doc fields)     e2a_6000 was deleted (comment field) |  |  |  |
| P3_ELIG2C                 | elig2c.sas7bdat  | e2c                | <ul> <li>e2c_1000D, e2c_1070D were deleted (description fields)</li> <li>e2c_1014, e2c_1017, e2c_1090, e2c_1100 were deleted (source doc fields)</li> <li>e2c_6000 was deleted (comment field)</li> </ul> |   |  |  |  |
| P3_ELIG3A                 | elig3a.sas7bdat  | еЗа                | Microbiome Eligibility Checklist 3 Asthmatic  | <ul> <li>e3a_1100D was deleted (description field)</li> <li>e3a_1120, e3a_1130 were deleted (source doc fields)</li> <li>e3a_6000 was deleted (comment field)</li> </ul>    |  |  |  |
| P3_ELIG3C                 | elig3c.sas7bdat  | e3c                | Microbiome Eligibility Checklist 3 Control  | <ul> <li>e3c_1100D was deleted (description field)</li> <li>e3c_1120, e3c_1130 were deleted (source doc fields)</li> <li>e3c_6000 was deleted (comment field)</li> </ul>    |  |  |  |
|                           | group.sas7bdat   |                    | Identifies study groups (allergic asthmatic, allergic control and non-allergic control  | File contains the following variables:  |  |  |  |
| P3_LAB                    | lab.sas7bdat     | lab                | Microbiome Laboratory Results   | • lab_6000 was deleted (comment field)  |  |  |  |
| P3_LAB_BAL                | lab_bal.sas7bdat | bal                | Microbiome BAL Laboratory<br>Results  | • bal_6000 was deleted (comment field)  |  |  |  |

| Form Name<br>Abbreviation | Dataset Name          | Variable<br>Prefix | Form Name or Description                                | Field Changes/ Comments  |
|---------------------------|-----------------------|--------------------|---|--|
| P3_MEQ                    | meq.sas/bdat          | meq                | Microbiome Microbial Exposure<br>Questionnaire          | <ul> <li>meq_1000D, meq_1050D, meq_1060D, meq_1340D were deleted (description fields)</li> <li>meq_1360, meq_1370 were deleted (source doc fields)</li> <li>meq_6000 was deleted (comment field)</li> </ul>  |
|                           | nutrition.sas7bdat    |                    | Block Brief 2000 Food<br>Frequency Questionnaire        | Block Brief 2000 Food Frequency Questionnaire was administered online through NutritionQuest. Data set includes raw questionnaire and nutrient analysis data provided by NutritionQuest. Data dictionary is included in Microbiome_contents.pdf; paper copy of questionnaire is in Microbiome_forms.pdf. The following variables were removed: • booknum • sex • pregnant • age • weight • heightfeet, heightinches • hispanic, white, blackafrican, asian, nativeindian, Hawaiian • smokenow, howmanycigs |
| P3_PARTTXQX               | parttxqx.sas7bdat     | ptx                | Microbiome Participant Study<br>Treatment Questionnaire | ptx_1050D was deleted (description field)     ptx_1060, ptx_1070 were deleted (source doc fields)  |
| P3_PULMONARYCHK           | pulmonarychk.sas7bdat | pch                | Microbiome Pulmonary<br>Procedure Checklist             | <ul> <li>pch_1150D was deleted (description field)</li> <li>pch_1170 (height) was deleted</li> <li>pch_6000 was deleted (comment field)</li> </ul>   |

| Form Name<br>Abbreviation | Dataset Name     | Variable<br>Prefix | Form Name or Description                                 | Field Changes/ Comments   |
|---------------------------|------------------|--------------------|--|---|
|                           | regimen.sas/bdat |                    | Randomized treatment assignments                         | File contains the following variables:  • part_id  • regimen (either "Placebo" or "ICS")  |
| P3_SIGEX                  | sigex.sas7bdat   | sig                | Microbiome Significant Asthma Exacerbation               | <ul> <li>sig_1060 (date) was altered as described above</li> <li>sig_1230D was deleted (description field)</li> <li>sig_6000 was deleted (comment field)</li> </ul>           |
| P3_TERM_A                 | term_a.sas7bdat  | tma                | Microbiome Termination of Study Participation Asthmatics | tma_1030D, tma_1160D were deleted (description fields) tma_1060 (date) was altered as described above tma_1180, tma_1190, tma_1200, tma_1210 were deleted (source doc fields) |
| P3_TERM_C                 | term_c.sas7bdat  | tmc                | Microbiome Termination of Study Participation Control    | tmc_1030D, tmc_1160D were deleted (description fields) tmc_1060 (date) was altered as described above tmc_1180, tmc_1190, tmc_1200, tmc_1210 were deleted (source doc fields) |

Table 2. Forms/Procedures Completed at each Study Visit (Visits 0-6)

(•=regular visit procedure; O=completed only as needed)

| Togalar viole procedure, 9 completed only as need | Visit Number |   |   |   |      |   |   |   |  |
|---|--------------|---|---|---|------|---|---|---|--|
|   | 0            | 1 | 2 | 3 | 3.01 | 4 | 5 | 6 |  |
| ACQ   | •            | • | • | • |      | • | • | • |  |
| AECLIN  | O            | O | O | O |      | O | O | O |  |
| ASTHMA_HX_ADULT                                   |              | • |   |   |      |   |   |   |  |
| CMED  | O            | O | 0 | O |      | O | O | O |  |
| COLD_HX   |              | • |   |   |      |   |   |   |  |
| HEQ   |              | • |   |   |      |   |   |   |  |
| HOUSEHOLD_SEI                                     |              | • |   |   |      |   |   |   |  |
| METHA   |              | • |   |   |      | • |   |   |  |
| METHACHK_ADULT                                    |              | • |   |   |      | • |   |   |  |
| METHA_ADD_TRT                                     |              | O |   |   |      | 0 |   |   |  |
| PALB4_SPIRO                                       |              | O | • |   |      |   | • |   |  |
| PREG_TEST   |              | • | • |   |      | • | • |   |  |
| PRIOR_COND_ADULT                                  |              | • |   |   |      |   |   |   |  |
| PRIOR_COND_ALL                                    |              | • |   |   |      |   |   |   |  |
| PRIOR_TRT   |              | • |   |   |      |   |   |   |  |
| Randomization                                     |              |   | • |   |      |   |   |   |  |
| REGISTRY  | •            |   |   |   |      |   |   |   |  |
| SERIOUS   | O            | O | O | O |      | O | O | O |  |
| SNQ   |              | • |   |   |      |   |   |   |  |
| SPIRO   |              | • | • | • |      | • | • | • |  |
| SPUTLAB   |              | • |   |   |      | • |   |   |  |
| SPUTREAD  |              | • |   |   |      | • |   |   |  |
| SPUTUM  |              | • |   |   |      | • |   |   |  |

|                 | Visit Number |   |   |   |      |   |   |   |  |
|-----------------|--------------|---|---|---|------|---|---|---|--|
|                 | 0            | 1 | 2 | 3 | 3.01 | 4 | 5 | 6 |  |
| SPUTUMCHK       |              | • |   |   |      | • |   |   |  |
| SPUTUM_ADD_TRT  |              | O |   |   |      | O |   |   |  |
| P3_ASTHMA_LOG   |              |   | • | • | 0    | • | • | • |  |
| P3_BPD          |              |   | • |   |      |   | • |   |  |
| P3_BRONCHCHK    |              |   | • |   |      |   | • |   |  |
| P3_COMPLY       |              |   |   | • | •    | • | • |   |  |
| P3_CTXQX        |              |   | O | 0 |      | O | • |   |  |
| P3_ELIG0        | •            |   |   |   |      |   |   |   |  |
| P3_ELIG1        |              | • |   |   |      |   |   |   |  |
| P3_ELIG2        |              | • |   |   |      |   |   |   |  |
| P3_ELIG3        |              |   | • |   |      |   |   |   |  |
| P3_LAB          |              | • | • |   |      |   |   |   |  |
| P3_LAB_BAL      |              |   | • |   |      |   | • |   |  |
| P3_MEQ          |              | • |   |   |      |   |   |   |  |
| P3_PARTTXQX     |              |   | O | O |      | O | • |   |  |
| P3_PULMONARYCHK |              | • | • | • |      | • | • | • |  |
| P3_SIGEX        |              |   | O | O |      | O | O | 0 |  |
| P3_TERM         | O            | O | 0 | C |      | O | 0 | • |  |