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**Master Patient Index
Summary of Methodology**

MASTER PATIENT INDEX METHODOLOGY AND DATA

The U of M MiPCT database will contain adjudicated claims data from Medicare, Medicaid, and Commercial Payers (BCBS MI and BCN.) A patient (also referred to as a member or individual) may have claims from each payer, and the claims from each payer may contain a different identifier for the patient. The Master Patient Index (MPI) will create a single master identifier, known as the Master Patient ID (MP ID), for each individual patient that is unique across time periods of the database and allow linkage and identification of patients across the Federal, State and Commercial claims data. The Master Patient ID will allow tracking of the individual patient's claims experience over time and independent of data supplier.

Methodology:

This document describes the methodology and the multiple matching process Truven Health Analytics has developed to generate a single Master Patient ID for an individual and how the MP ID is being assigned to each payer's data. Each payer can utilize a unique type of id to identify patients (ex: SSN, internal id plan specific, etc.) and the logic to assign the Master Patient ID to each data supplier is unique as well.

To standardize this, Truven Health Analytics will generate a unique Master Patient Id as a numeric value for each patient. We will initially use enrollment data to confirm if a patient is currently on the Master Patient Index and if we do not find the individual patient, we will create a new Master Patient ID and insert the new record into the table. If a patient is on the MPI and the information is the same, we make no changes to the table. If the patient is on the MPI and the information is different, we generate a new record for the patient with the new information and the same Master Patient ID. Therefore, the Index can contain multiple records for the same Master Patient ID, with variations or changes in name, address, and other attributes. We repeat this process for Medical and Drug claims. We include a source identifier to distinguish the source of the information: Enrollment, Medical, and Drug. We generate a time stamp on the record, to retain the history of changes and to allow reporting on the most current information when desired. When we extract the data for the UM MiPCT system, the extract will include the most current information for each patient along with the five most current values if they have changed over time.

To assign the Master Patient ID to an individual's data, Truven Health Analytics uses a multiple matching process, using Carrier ID, patient SSN and then patient

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name and other demographics, to “find the best match” possible for an individual between the Master Patient Index table and their eligibility and claims data. We created a hierarchy of importance for this multiple match process. Each match attempt has a unique weight of accuracy, which we use to select the “best match” for the unique identifier and we tag the Master Person ID to the eligibility and claims records. During this process, if an individual is not in the MPI Table, we add them and assign a unique Master Patient ID.

Master Patient Index Table:

	Field Name	Type	Size	Description/Code/Source	Current or Historic Data
1	Master Patient ID	Text	20	Unique Patient Identifier Generated by Truven Health Analytics	N/A – Assigned and retained
2	Member Identification Code (SSN)	Text	9	Member Social Security Number	Current
3	Member First Name	Text	50	The member’s first name	History – up to 5 values
4	Member Last Name	Text	50	The member’s last name	History – up to 5 values
5	Member Date of Birth	Date	8	CCYYMMDD	Current
6	Member Gender	Text	1		Current
7	Member Street Address	Text	50	Street address of member	History – up to 5 values
8	Member City Name	Text	30	City location of member	History – up to 5 values
9	Member State or Province	Text	2	As defined by the US Postal Service	History – up to 5 values
10	Member ZIP Code	Text	11	ZIP Code of member - may include non-US codes. Do not include dash. MN is 5 digit only	History – up to 5 values
11	Subscriber Social Security Number	Text	9	Subscriber’s social security number; Set to null if not provided	Current
12	BCBSM Carrier Specific Unique Member ID	Text	20	BCBSM’s unique member identifier	History – up to 10 values
13	BCN Carrier Specific Unique Member ID	Text	20	BCN’s unique member identifier	History – up to 10 values
14	Medicaid Carrier Specific Unique Member ID	Text	20	Medicaid’s unique member identifier	History – up to 10 values

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	Field Name	Type	Size	Description/Code/Source	Current or Historic Data
15	Medicare Carrier Specific Unique Member ID	Text	20	Medicare's unique member identifier	History – up to 10 values
16	Member Identification Code (SSN) - Commercial	Text	9	Member Identification Code – Commercial (Value provided by BCBSMI and BCN)	Current

ASSIGNMENT OF MASTER PATIENT ID TO MEDICAID/MEDICARE DATA

Eligibility

Once we create the Master Patient Id we implement a hierarchical multiple-match attempts to assign the Master Patient ID to the **Eligibility** data. Matching attempts are listed in the hierarchy from highest to lowest (this is the “weight of accuracy” order.)

Attempt	Source Field	Master Patient Index Field	Notes
First	Carrier Specific Unique Member ID	Carrier Specific Unique Member ID	
Second	Member SSN	Member SSN	
Third	Member First Name	Member First Name	
Third	Member Last Name	Member Last Name	
Third	Member Date of Birth	Member Date of Birth	
Third	Member Gender	Member Gender	
Third	Member City	Member City	
Third	Member Address	Member Address	

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Attempt	Source Field	Master Patient Index Field	Notes
Fourth	Member First Name Short	Member First Name Short	First 5 char
Fourth	Member Last Name Short	Member Last Name Short	First 5 char
Fourth	Member Date of Birth	Member Date of Birth	
Fourth	Member Gender	Member Gender	
Fourth	Member City Short	Member City Short	First 6 char
Fourth	Member Address Short	Member Address Short	First 6 char
Fifth	Member First Name Short	Member First Name Short	First 5 char
Fifth	Member Last Name Short	Member Last Name Short	First 5 char
Fifth	Member Date of Birth Short	Member Date of Birth Short	Month & Year only
Fifth	Member City Short	Member City Short	First 6 char
Fifth	Member Address Short	Member Address Short	First 6 char
Sixth	Member First Name Short	Member First Name Short	First 5 char
Sixth	Member Last Name Short	Member Last Name Short	First 5 char
Sixth	Member Date of Birth	Member Date of Birth	
Sixth	Member Gender	Member Gender	
Sixth	Member SSN	Member SSN	The Member SSN has to be missing on either the eligibility data or the Master Patient Index table or on both tables in order to assign the Master Patient ID from this attempt.
Seventh	Member First Name Abbr	Member First Name Abbr	Min of 2 char – Max of 5 char Set the length from the smallest number of characters found from First Name using the combination of: First Name Abbr. (2 char), Last Name Short, DOB Short, and Gender (not to be less than 2 or more than 5 characters).
Seventh	Member Last Name Short	Member Last Name Short	First 5 char
Seventh	Member Date of Birth	Member Date of Birth	

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Attempt	Source Field	Master Patient Index Field	Notes
Seventh	Member Gender	Member Gender	
Seventh	Member SSN	Member SSN	The Member SSN has to be missing on either the eligibility data or the Master Patient Index table or on both tables in order to assign the Master Patient ID from this attempt.

Medical/Drug

Below is the list of multiple matching attempts used to assign the Master Patient ID to the **Medical/Drug** data. The matching attempts are listed hierarchy order from highest to lowest (the “weight of accuracy” order). The Medical/Drug attempts are different from Eligibility because Member Address is not available on Medical/Drug claims.

Attempt	Source Field	Master Patient Index Field	Notes
First	Carrier Specific Unique Member ID	Carrier Specific Unique Member ID	
Second	Member SSN	Member SSN	
Third	Member First Name	Member First Name	
Third	Member Last Name	Member Last Name	
Third	Member Date of Birth	Member Date of Birth	
Third	Member Gender	Member Gender	
Third	Member City	Member City	
Fourth	Member First Name Short	Member First Name Short	First 5 char
Fourth	Member Last Name Short	Member Last Name Short	First 5 char

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Attempt	Source Field	Master Patient Index Field	Notes
Fourth	Member Date of Birth	Member Date of Birth	
Fourth	Member Gender	Member Gender	
Fourth	Member City Short	Member City Short	First 6 char
Fifth	Member First Name Short	Member First Name Short	First 5 char
Fifth	Member Last Name Short	Member Last Name Short	First 5 char
Fifth	Member Date of Birth Short	Member Date of Birth Short	Month & Year only
Fifth	Member City Short	Member City Short	First 6 char
Sixth	Member First Name Short	Member First Name Short	First 5 char
Sixth	Member Last Name Short	Member Last Name Short	First 5 char
Sixth	Member Date of Birth	Member Date of Birth	
Sixth	Member Gender	Member Gender	
Sixth	Member SSN	Member SSN	The Member SSN has to be missing on either the claims data or the Master Patient Index table or on both tables in order to assign the Master Patient ID from this attempt.
Seventh	Member First Name Abbr	Member First Name Abbr	Min of 2 char – Max of 5 char Set the length from the smallest number of characters found from First Name using the combination of: First Name Abbr. (2 char), Last Name Short, DOB Short, and Gender (not to be less than 2 or more than 5 characters).
Seventh	Member Last Name Short	Member Last Name Short	First 5 char
Seventh	Member Date of Birth	Member Date of Birth	
Seventh	Member Gender	Member Gender	
Seventh	Member SSN	Member SSN	The Member SSN has to be missing on either the claims data or the Master Patient Index table or on both tables in order to assign the Master Patient ID from this attempt.

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IDENTIFYING NEW MEMBERS AND ADDING THEM TO THE MASTER PATIENT INDEX FROM MEDICAID/MEDICARE DATA

Eligibility

Once all attempts to assign a Master Patient ID to a member from **eligibility** have been exhausted, that member is identified as a new patient to add to the Master Patient Index. For all of the rows of data identified as new members to add to the Master Patient Index, some of the rows could be for the same member. Those multiple rows for the same member could contain different values (change of Last Name, change of Address, etc...). Here is the process used to identify the same member from multiple rows of data with potential changes of data within those rows.

Attempt	Source Field	Notes
First	Carrier Specific Unique Member ID	All members with the same Carrier Specific Unique Member ID are treated as the same member and assigned the same Master Patient ID.
Second	Member SSN	First, any records with a missing Member SSN will be assigned a Member SSN from another record where Carrier Specific Unique Member ID, First Name Abbreviated, Last Name Short, Date of Birth, and Gender are the same. All members with the same Member SSN are treated as the same member and assigned the same Master Patient ID
Third	Member First Name	First, all records will be assigned the same First Name (to avoid spelling errors during rollup) where Carrier Specific Unique Member ID, Member SSN, First Name Abbreviated, Date of Birth Short, and Gender are the same. All members with the same Member First Name, Member Last Name, Member Date of Birth, Member Gender, Member City, and Member Address are treated as the same member and assigned the same Master Patient ID.
Third	Member Last Name	
Third	Member Date of Birth	
Third	Member Gender	
Third	Member City	
Third	Member Address	
Fourth	Member First Name	All members with the same Member First Name, Member Last

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Attempt	Source Field	Notes
Fourth	Member Last Name	Name, Member Date of Birth, and Member Gender are grouped together. The unique count of Member SSN for this combination of fields is determined. If the unique count for Member SSN for the combination of these fields is <=1 (if there are multiple rows of data but there is only one unique Member SSN provided, then all rows have the exact same SSN or some of the rows have a missing SSN.) These rows are treated as the same member and assigned the same Master Patient ID. If the unique count of Member SSNs >= 2, these members have the same name, gender, and date of birth as one another but are different members because they have different SSN values and should not be rolled up together. These rows will not be treated as one member and will not be assigned the same Master Patient ID.
Fourth	Member Date of Birth	
Fourth	Member Gender	
Fourth	Member SSN	
Fifth	Carrier Specific Unique Member ID	With the multiple rollup attempts listed above, there is a possibility that records with the same Carrier Specific Unique Member ID could be rolled up to two different Master Patient IDs (this would only occur if there were multiple Member SSN values associated to the same Carrier Specific Unique Member ID). This attempt is run in order to keep all records with the same Carrier Specific Unique Member ID together. All members with the same Carrier Specific Unique Member ID are grouped together and the Master Patient ID value that occurs most often (mode) is assigned to all records with the same Carrier Specific Unique Member ID.

Medical/Drug

Once all attempts to assign a Master Patient ID for a member from **medical/drug** have been exhausted, that member is identified as a new person and added to the Master Patient Index. For all rows of data identified as new patients to add to the Master Patient Index, some of the rows may be for the same member. Those multiple rows for the same member could contain different values (change of Last Name, change of Address, etc...). Here is the process used to identify the same member from multiple rows of data with potential changes of data within those rows. The Medical/Drug attempts are different from Eligibility because Member Address is not available on Medical/Drug claims.

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Attempt	Source Field	Notes
First	Carrier Specific Unique Member ID	All members with the same Carrier Specific Unique Member ID are treated as the same member and assigned the same Master Patient ID.
Second	Member SSN	<p>First, any records with a missing Member SSN will be assigned a Member SSN from another record where Carrier Specific Unique Member ID, First Name Abbreviated, Last Name Short, Date of Birth, and Gender are the same.</p> <p>All members with the same Member SSN are treated as the same member and assigned the same Master Patient ID</p>
Third	Member First Name	<p>First, all records will be assigned the same First Name (to avoid spelling errors during rollup) where Carrier Specific Unique Member ID, Member SSN, First Name Abbreviated, Date of Birth Short, and Gender are the same.</p> <p>All members with the same Member First Name, Member Last Name, Member Date of Birth, Member Gender, and Member City are treated as the same member and assigned the same Master Patient ID.</p>
Third	Member Last Name	
Third	Member Date of Birth	
Third	Member Gender	
Third	Member City	
Fourth	Member First Name	<p>All members with the same Member First Name, Member Last Name, Member Date of Birth, and Member Gender are grouped together. The unique count of Member SSN for this combination of fields is determined. If the unique count for Member SSN for the combination of these fields is ≤ 1 (if there are multiple rows of data but there is only one unique Member SSN provided, then all rows have the exact same SSN or some of the rows have a missing SSN.) These rows are treated as the same member and assigned the same Master Patient ID. If the unique count of Member SSNs ≥ 2, these members have the same name, gender, and date of birth as one another but are different members because they have different SSN values and should not be rolled up together. These rows will not be treated as one member and will not be assigned the same Master Patient ID.</p>
Fourth	Member Last Name	
Fourth	Member Date of Birth	
Fourth	Member Gender	
Fourth	Member SSN	
Fifth	Carrier Specific Unique Member ID	With the multiple rollup attempts listed above, there is a possibility that records with the same Carrier Specific Unique Member ID could be rolled up to two different Master Patient IDs (this would only occur if there were multiple Member SSN values

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Attempt	Source Field	Notes
		<p>associated to the same Carrier Specific Unique Member ID). This attempt is run in order to keep all records with the same Carrier Specific Unique Member ID together. All members with the same Carrier Specific Unique Member ID are grouped together and the Master Patient ID value that occurs most often (mode) is assigned to all records with the same Carrier Specific Unique Member ID.</p>

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ASSIGNMENT OF MASTER PATIENT ID TO BCBSMI DATA

Eligibility

Once we create the Master Patient Id we implement a hierarchical multiple-match attempts to assign the Master Patient ID to the **Eligibility** data. Matching attempts are listed in the hierarchy from highest to lowest (this is the “weight of accuracy” order.)

Attempt	Source Field	Master Patient Index Field	Notes
First	Carrier Specific Unique Member ID	Carrier Specific Unique Member ID	
Second	Member SSN - Commercial	Member SSN - Commercial	
Second	Member First Name Short	Member First Name Short	First 5 char
Second	Member Date of Birth Short	Member Date of Birth Short	Month & Year only
Second	Member Gender	Member Gender	
Third	Subscriber SSN	Subscriber SSN	
Third	Member First Name	Member First Name	First 5 char
Third	Member Date of Birth	Member Date of Birth	
Third	Member Gender	Member Gender	
Fourth	Member First Name	Member First Name	
Fourth	Member Last Name	Member Last Name	If Member Last Name is missing, then Subscriber Last Name is used.
Fourth	Member Date of Birth	Member Date of Birth	
Fourth	Member Gender	Member Gender	
Fourth	Member City	Member City	

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Attempt	Source Field	Master Patient Index Field	Notes
Fourth	Member Address	Member Address	
Fifth	Member First Name Short	Member First Name Short	First 5 char
Fifth	Member Last Name Short	Member Last Name Short	First 5 char If the Member Last Name is missing, then the Subscriber Last Name will be used.
Fifth	Member Date of Birth	Member Date of Birth	
Fifth	Member Gender	Member Gender	
Fifth	Member City Short	Member City Short	First 6 char
Fifth	Member Address Short	Member Address Short	First 6 char
Sixth	Member First Name Short	Member First Name Short	First 5 char
Sixth	Member Last Name Short	Member Last Name Short	First 5 char If the Member Last Name is missing, then the Subscriber Last Name will be used.
Sixth	Member Date of Birth Short	Member Date of Birth Short	Month & Year only
Sixth	Member City Short	Member City Short	First 6 char
Sixth	Member Address Short	Member Address Short	First 6 char
Seventh	Member First Name Short	Member First Name Short	First 5 char
Seventh	Member Last Name Short	Member Last Name Short	First 5 char If the Member Last Name is missing, then the Subscriber Last Name will be used.
Seventh	Member Date of Birth	Member Date of Birth	
Seventh	Member Gender	Member Gender	
Seventh	Member SSN - Commercial	Member SSN - Commercial	The Member SSN - Commercial has to be missing on either the eligibility data or the Master Patient Index table or on both tables in order to assign the Master Patient ID from this

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Attempt	Source Field	Master Patient Index Field	Notes
			attempt.
Eighth	Member First Name Abbr	Member First Name Abbr	Min of 2 char – Max of 5 char Set the length from the smallest number of characters found from First Name using the combination of: First Name Abbr. (2 char), Last Name Short, DOB Short, and Gender (not to be less than 2 or more than 5 characters).
Eighth	Member Last Name Short	Member Last Name Short	First 5 char If the Member Last Name is missing, then the Subscriber Last Name will be used.
Eighth	Member Date of Birth	Member Date of Birth	
Eighth	Member Gender	Member Gender	
Eighth	Member SSN - Commercial	Member SSN - Commercial	The Member SSN - Commercial has to be missing on either the eligibility data or the Master Patient Index table or on both tables in order to assign the Master Patient ID from this attempt.

Medical/Drug

Below is the list of multiple matching attempts used to assign the Master Patient ID to the **Medical/Drug** data. The matching attempts are listed hierarchy order from highest to lowest (the “weight of accuracy” order). The Medical/Drug attempts are different from Eligibility because Member Address is not available on Medical/Drug claims.

Attempt	Source Field	Master Patient Index Field	Notes
First	Carrier Specific Unique Member ID	Carrier Specific Unique Member ID	

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Attempt	Source Field	Master Patient Index Field	Notes
Second	Member SSN - Commercial	Member SSN - Commercial	
Second	Member First Name Short	Member First Name Short	First 5 char
Second	Member Date of Birth Short	Member Date of Birth Short	Month & Year only
Second	Member Gender	Member Gender	
Third	Subscriber SSN	Subscriber SSN	
Third	Member First Name Short	Member First Name Short	First 5 char
Third	Member Date of Birth Short	Member Date of Birth Short	Month & Year only
Third	Member Gender	Member Gender	
Fourth	Member First Name	Member First Name	
Fourth	Member Last Name	Member Last Name	If the Member Last Name is missing, then the Subscriber Last Name will be used.
Fourth	Member Date of Birth	Member Date of Birth	
Fourth	Member Gender	Member Gender	
Fourth	Member City	Member City	
Fifth	Member First Name Short	Member First Name Short	First 5 char
Fifth	Member Last Name Short	Member Last Name Short	First 5 char If the Member Last Name is missing, then the Subscriber Last Name will be used.
Fifth	Member Date of Birth	Member Date of Birth	
Fifth	Member Gender	Member Gender	
Fifth	Member City Short	Member City Short	First 6 char

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Attempt	Source Field	Master Patient Index Field	Notes
Sixth	Member First Name Short	Member First Name Short	First 5 char
Sixth	Member Last Name Short	Member Last Name Short	First 5 char If the Member Last Name is missing, then the Subscriber Last Name will be used.
Sixth	Member Date of Birth Short	Member Date of Birth Short	Month & Year only
Sixth	Member City Short	Member City Short	First 6 char
Seventh	Member First Name Short	Member First Name Short	First 5 char
Seventh	Member Last Name Short	Member Last Name Short	First 5 char If the Member Last Name is missing, then the Subscriber Last Name will be used.
Seventh	Member Date of Birth	Member Date of Birth	
Seventh	Member Gender	Member Gender	
Seventh	Member SSN - Commercial	Member SSN - Commercial	The Member SSN - Commercial has to be missing on either the claims data or the Master Patient Index table or on both tables in order to assign the Master Patient ID from this attempt.
Eighth	Member First Name Abbr	Member First Name Abbr	Min of 2 char – Max of 5 char Set the length from the smallest number of characters found from First Name using the combination of: First Name Abbr. (2 char), Last Name Short, DOB Short, and Gender (not to be less than 2 or more than 5 characters).
Eighth	Member Last Name Short	Member Last Name Short	First 5 char If the Member Last Name is missing, then the Subscriber Last Name will be used.

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Attempt	Source Field	Master Patient Index Field	Notes
Eighth	Member Date of Birth	Member Date of Birth	
Eighth	Member Gender	Member Gender	
Eighth	Member SSN - Commercial	Member SSN - Commercial	The Member SSN - Commercial has to be missing on either the claims data or the Master Patient Index table or on both tables in order to assign the Master Patient ID from this attempt.

IDENTIFYING NEW MEMBERS AND ADDING THEM TO THE MASTER PATIENT INDEX FROM BCBSMI DATA

Eligibility

Once all attempts to assign a Master Patient ID to a member from **eligibility** have been exhausted, that member is identified as a new patient to add to the Master Patient Index. For all of the rows of data identified as new members to add to the Master Patient Index, some of the rows could be for the same member. Those multiple rows for the same member could contain different values (change of Last Name, change of Address, etc...). Here is the process used to identify the same member from multiple rows of data with potential changes of data within those rows.

Attempt	Source Field	Notes
First	Carrier Specific Unique Member ID	All members with the same Carrier Specific Unique Member ID are treated as the same member and assigned the same Master Patient ID.
Second	Member SSN - Commercial	First, any records with a missing Member SSN - Commercial will be assigned a Member SSN - Commercial from another record where First Name Abbreviated, Last Name Short, Date of Birth, and Gender are the same.
Second	Member Date of Birth	
Second	Member Gender	

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Attempt	Source Field	Notes
Second	Member First Name	All members with the same Member SSN - Commercial, Member Date of Birth, Member Gender, and Member First Name are treated as the same member and assigned the same Master Patient ID.
Third	Subscriber SSN	All members with the same Subscriber SSN, Member Date of Birth, Member Gender, and Member First Name are treated as the same member and assigned the same Master Patient ID.
Third	Member Date of Birth	
Third	Member Gender	
Third	Member First Name	
Fourth	Member First Name	First, all records will be assigned the same First Name (to avoid spelling errors during rollup) where Member SSN - Commercial, First Name Abbreviated, Date of Birth Short, and Gender are the same. Second, all records will be assigned the same First Name (to avoid spelling errors during rollup) where Subscriber SSN, First Name Abbreviated, Date of Birth Short, and Gender are the same.
Fourth	Member Last Name	
Fourth	Member Date of Birth	
Fourth	Member Gender	
Fourth	Member City	
Fourth	Member Address	All members with the same Member First Name, Member Last Name, Member Date of Birth, Member Gender, Member City, and Member Address are treated as the same member and assigned the same Master Patient ID. If the Member Last Name is missing, then the Subscriber Last Name will be used.
Fifth	Member First Name	First, all records are assigned a same Member SSN - Commercial where Subscriber SSN, First Name Short, Date of Birth Short, and Gender are the same (stabilizing Member SSN in order to roll records together). Second, all records will be assigned the same Member SSN - Commercial where Subscriber SSN / First Name Short / Date of Birth Short / Gender is that same as the Member SSN - Commercial / First Name Short / Date of Birth Short / Gender of another record (to roll up any records were the Subscriber SSN
Fifth	Member Last Name	
Fifth	Member Date of Birth	
Fifth	Member Gender	
Fifth	Member SSN - Commercial	

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Attempt	Source Field	Notes
		<p>appears to be in the Member SSN - Commercial or the Subscriber SSN and Member SSN - Commercial appear to be inadvertently transposed).</p> <p>All members with the same Member First Name, Member Last Name, Member Date of Birth, and Member Gender are grouped together. The unique count of Member SSN - Commercial for this combination of fields is determined. If the unique count for Member SSN - Commercial for the combination of these fields is ≤ 1 (if there are multiple rows of data but there is only one unique Member SSN - Commercial provided, then all rows have the exact same SSN or some of the rows have a missing SSN.) These rows are treated as the same member and assigned the same Master Patient ID. If the unique count of Member SSN - Commercial ≥ 2, these members have the same name, gender, and date of birth as one another but are different members because they have different SSN values and should not be rolled up together. These rows will not be treated as one member and will not be assigned the same Master Patient ID.</p> <p>If the Member Last Name is missing, then the Subscriber Last Name will be used.</p>
Sixth	Carrier Specific Unique Member ID	<p>With the multiple rollup attempts listed above, there is a possibility that records with the same Carrier Specific Unique Member ID could be rolled up with two different Master Patient IDs (this would only occur if there were multiple Member SSN - Commercial values associated to the same Carrier Specific Unique Member ID). This attempt is run in order to keep all records with the same Carrier Specific Unique Member ID together.</p> <p>All members with the same Carrier Specific Unique Member ID are grouped together and the Master Patient ID value that occurs most often (mode) is assigned to all records with the same Carrier Specific Unique Member ID.</p>

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Medical/Drug

Once all attempts to assign a Master Patient ID for a member from **medical/drug** have been exhausted, that member is identified as a new person and added to the Master Patient Index. For all rows of data identified as new patients to add to the Master Patient Index, some of the rows may be for the same member. Those multiple rows for the same member could contain different values (change of Last Name, change of Address, etc...). Here is the process we apply to identify the same member from multiple rows of data with potential changes to data within those rows. The Medical/Drug attempts are different from Eligibility because Member Address is not available on Medical/Drug claims.

Attempt	Source Field	Notes
First	Carrier Specific Unique Member ID	All members with the same Carrier Specific Unique Member ID are treated as the same member and assigned the same Master Patient ID.
Second	Member SSN - Commercial	First, any records with a missing Member SSN - Commercial will be assigned a Member SSN - Commercial from another record where First Name Abbreviated, Last Name Short, Date of Birth, and Gender are the same.
Second	Member Date of Birth	
Second	Member Gender	
Second	Member First Name	All members with the same Member SSN - Commercial, Member Date of Birth, Member Gender, and Member First Name are treated as the same member and assigned the same Master Patient ID.
Third	Subscriber SSN	All members with the same Subscriber SSN, Member Date of Birth, Member Gender, and Member First Name are treated as the same member and assigned the same Master Patient ID.
Third	Member Date of Birth	
Third	Member Gender	
Third	Member First Name	
Fourth	Member First Name	First, all records will be assigned the same First Name (to avoid spelling errors during rollup) where Member SSN - Commercial, First Name Abbreviated, Date of Birth Short, and Gender are the same.
Fourth	Member Last Name	
Fourth	Member Date of Birth	

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Attempt	Source Field	Notes
Fourth	Member Gender	<p>Second, all records will be assigned the same First Name (to avoid spelling errors during rollup) where Subscriber SSN, First Name Abbreviated, Date of Birth Short, and Gender are the same.</p> <p>All members with the same Member First Name, Member Last Name, Member Date of Birth, Member Gender, and Member City are treated as the same member and assigned the same Master Patient ID.</p> <p>If the Member Last Name is missing, then the Subscriber Last Name will be used.</p>
Fourth	Member City	
Fifth	Member First Name	<p>First, all records will be assigned the same Member SSN - Commercial (to avoid not rolling records together because the some of the records contain an SSN that is invalid) where Subscriber SSN, First Name Short, Date of Birth Short, and Gender are the same.</p> <p>Second, all records will be assigned the same Member SSN - Commercial (to avoid not rolling records together because some of the records contain an SSN that is invalid) where Subscriber SSN / First Name Short / Date of Birth Short / Gender is that same as the Member SSN - Commercial / First Name Short / Date of Birth Short / Gender of another record (to roll up any records were the Subscriber SSN was entered into the Member SSN - Commercial or the Subscriber SSN and Member SSN - Commercial were flip flopped inadvertently).</p> <p>All members with the same Member First Name, Member Last Name, Member Date of Birth, and Member Gender are grouped together. The unique count of Member SSN - Commercial for this combination of fields is determined. If the unique count for Member SSN – Commercial for the combination of these fields is <=1 (if there are multiple rows of data but there is only one unique Member SSN – Commercial provided, then all rows have the exact same SSN or some of the rows have a missing SSN.) These rows are treated as the same member and assigned the same Master Patient ID. If the unique count of Member SSN - Commercial >= 2, these members have the same name, gender,</p>
Fifth	Member Last Name	
Fifth	Member Date of Birth	
Fifth	Member Gender	
Fifth	Member SSN - Commercial	

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Master Patient Index
Summary of Methodology

Attempt	Source Field	Notes
		<p>and date of birth as one another but are different members because they have different SSN values and should not be rolled up together. These rows will not be treated as one member and will not be assigned the same Master Patient ID.</p> <p>If the Member Last Name is missing, then the Subscriber Last Name will be used.</p>
Sixth	Carrier Specific Unique Member ID	<p>With the multiple rollup attempts listed above, there is a possibility that records with the same Carrier Specific Unique Member ID could be rolled up to two different Master Patient IDs (this would only occur if there were multiple Member SSN – Commercial values associated to the same Carrier Specific Unique Member ID). This attempt is run in order to keep all records with the same Carrier Specific Unique Member ID together.</p> <p>All members with the same Carrier Specific Unique Member ID are grouped together and the Master Patient ID value that occurs most often (mode) is assigned to all records with the same Carrier Specific Unique Member ID.</p>