Purpose

This document is a brief description of the implementation of this FOIA request.

Background

The requestor has asked to look at providers who share relationships with common patients. That sharing is defined as "An organization or provider participating in the delivery of health services to the same patient within a 30 days, 60 days, 90 days and finally a 180 day period after another organization or provider participated in providing health services to the same patient." For instance, if a patient with a patient identifier of 111-22-3333 was listed on a claim with a "treatment association" by NPI 3333333333, and then also listed on a claim as being treated 12 days after that date with a "treatment association" by NPI 4444444444. Then 3333333333 would have "shared" the patient with 4444444444.

In order to protect the identity of patients, this report excludes any sharing that happened with less than 11 different patients over the course of the year.

A "treatment association" is any field in the claims database,-other- than referring NPI, or the NPI for suppliers of durable medical equipment. Essentially, those NPI records that could have participated in the delivery of healthcare services associated with a given claim. These include the following fields, outlined from the data dictionaries available from ResDAC.

Institutional included:

ORGNPINM Organization NPI Number
AT_NPI Claim Attending Physician NPI Number
OP_NPI Claim Operating Physician NPI Number
OT_NPI Claim Other Physician NPI Number

Non-institutional included:

CPO_NPI CPO Organization NPI Number
PRFNPI Carrier Line Performing NPI Number
PRGRPNPI Carrier Line Performing Group NPI Number
ORD_NPI DMERC Claim Ordering Physician NPI Number

Non-institutional excluded:

SUP_NPI DMERC Line Item Supplier NPI Number
RFR_NPI Carrier Claim Refering Physician NPINumber

In the case above if 33 3333333 was any of the non-excluded NPI types above, and then if 4444444444 was on a claim with the same patient identifier afterwards within the same month or designated period of time and this occurred more than 11times for different patients in the given year, then, one line would be added to the data dump:
3333333333, 4444444444
This is a very common way to study sharing patterns.

Requirements

The technical requirements are described below.
1. The report will be produced from the Integrated Data Repository (IDR) database, which houses claims from the National Claims History (NCH) database.
2. The report will include claims for calendar year 2009 through the 10/1/2015.
3. Each year of the report will reflect intervals of 30, 60, 90 and180 days.
4. The report will include the total unique number of beneficiary referrals as well as the number of beneficiary referrals on the same day.
5. The report will include these institutional claim types:

- 10 Medicare HHA Claim
- 20 Medicare Non-Swing Bed SNF Claim
- 30 Medicare Swing Bed SNF Claim
- 40 Medicare Outpatient Claim
- 50 Medicare Hospice Claim
- 60 Medicare Inpatient Claim
- 61 Medicare Inpatient Full Encounter Claim
- 63 Medicare Advantage (No-Pay) Claims

6. The report will include these non-institutional claim types:
- 71 Medicare RIC 0 Local Carrier
- 72 Medicare RIC 0 Local Carrier
- 81 Medicare RIC M DMERC Non-DMEPOS Claim
- 82 Medicare RIC M DMERC DMEPOS Claim

7. Institutional provider types will be mapped from NCH types as follows:

NCH
Organization NPI Number (ORGNPINM)
Claim Attending Physician NPI Number (AT_NPI)
IDR
Facility, Payto, Billing
Attending
Claim Operating Physician NPI Number (OP_NPI) Operating
Claim Other Physician NPI Number (OT_NPI) Other

8. Non-institutional provider types will be mapped from NCH types as follows:

NCH IDR CPO Organization NPI Number (CPO_NPI) Facility, Payto, Billing Carrier Line Performing NPI Number (PRFNPI) Rendering Carrier Line Performing Group NPI Number Rendering (PRGRPNPI) DMERC Claim Ordering Physician NPI Number (ORD_NPI) Ordering

9. A provider will be counted only once per claim, even if it appears on multiple lines or in multiple roles.

10. A shared relationship is presumed from physician A to physician B when a claim for physician B follows a claim for physician A within 30, 60, 90 or 180 days and all claims are for the same beneficiary.

11. Presumed shared relationships based on same-day events will be assigned to the lesser of the two NPIs.

12. Presumed shared relationships based on claims for fewer than eleven distinct beneficiaries will be excluded from the report.

13. The report output will consist of a series of presumed shared relationships expressed as follows:

Initial Physician NPI (NPI 1), Secondary Physician NPI (NPI 2), Shared Count, Number Unique Beneficiaries, Number Same Day Visits

Column Name	Length	Start Position	End Position
NPI Number1	10	1	10
comma	1	11	11
NPI Number2	10	12	21
comma	1	22	22
Pair Count	10	23	32
comma	1	33	33
Bene Count	10	34	43
comma	1	44	44
Same Day Count	10	45	54

Below are the details of the output files for the shared patient data.

Year	Shared Intervals	Record count	Date Range
2009	30	50,382,951	01/01/2009 - 02/01/2010
2009	60	67,915,893	01/01/2009 - 03/01/2010
2009	90	82,635,748	01/01/2009 - 04/01/2010
2009	180	119,270,681	01/01/2009 - 07/01/2010
Year	Shared Intervals	Record count	Date Range
2010	30	52,236,906	01/01/2010 - 02/01/2011
2010	60	70,640,468	01/01/2010 - 03/01/2011
2010	90	86,116,496	01/01/2010 - 04/01/2011
2010	180	124,844,963	01/01/2010 - 07/01/2011
Year	Shared Intervals	Record count	Date Range
2011	30	54,038,549	01/01/2011 - 02/01/2012
2011	60	73,545,008	01/01/2011 - 03/01/2012
2011	90	89,506,481	01/01/2011 - 04/01/2012
2011	180	129,968,445	01/01/2011 - 07/01/2012
Year	Shared Intervals	Record count	Date Range
2012	30	54,966,715	01/01/2012 - 02/01/2013
2012	60	74,795,384	01/01/2012 - 03/01/2013
2012	90	91,175,470	01/01/2012 - 04/01/2013
2012	180	133,042,645	01/01/2012 - 07/01/2013
Year	Shared Intervals	Record count	Date Range
2013	30	55,141,669	01/01/2013 - 02/01/2014
2013	60	75,144,583	01/01/2013 - 03/01/2014
2013	90	92,004,979	01/01/2013 - 04/01/2014
2013	180	135,071,996	01/01/2013 - 07/01/2014
Year	Shared Intervals	Record count	Date Range
2014	30	55,779,360	01/01/2014 - 02/01/2015
2014	60	76,415,894	01/01/2014 - 03/01/2015
2014	90	94,074,258	01/01/2014 - 04/01/2015
2014	180	138,614,191	01/01/2014 - 07/01/2015
Year	Shared Intervals	Record count	Date Range
2015	30	34,856,901	01/01/2015 - 09/01/2015
2015	60	49,335,361	01/01/2015 - 10/01/2015
2015	90	56,040,265	01/01/2015 - 10/01/2015
2015	180	65,739,582	01/01/2015 - 10/01/2015