Diabetes: Hemoglobin A1c Poor Control

September 18, 2015

NOTES	MAINTENANCE HISTORY
	10/25/2016 – Updated for Annual Update 2015. 12/2/2016- Updated for Annual Update 2016.

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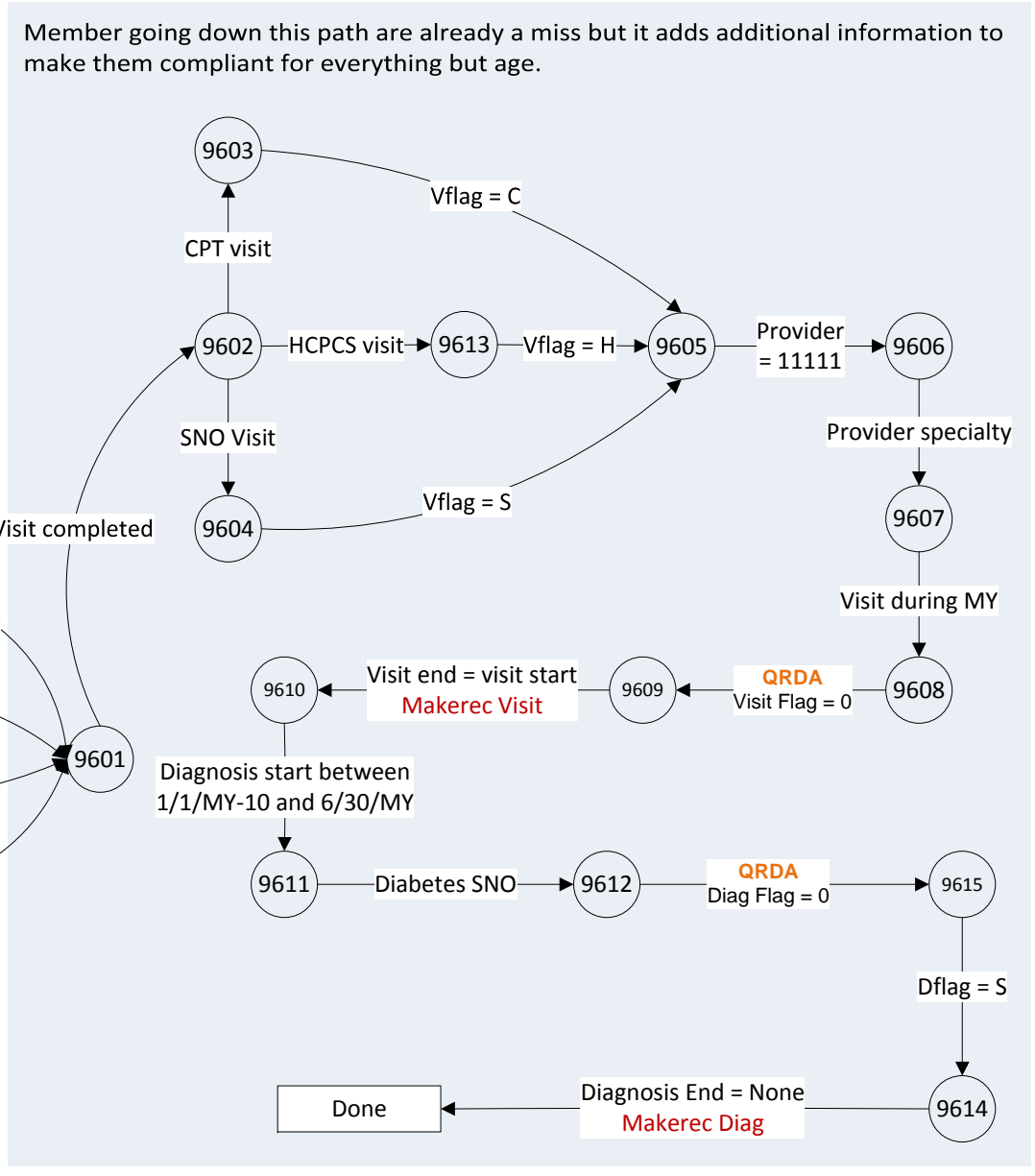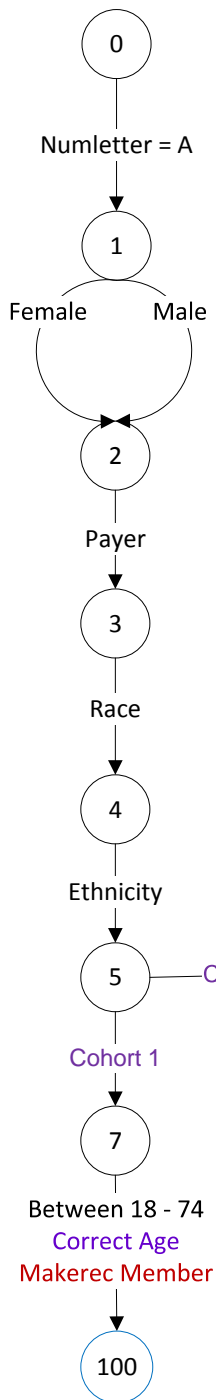Member going down this path are already a miss but it adds additional information to make them compliant for everything but age.

0

Numletter = A

1

Female   Male

2

Payer

3

Race

4

Ethnicity

5 —Cohort 0→ 6

Cohort 1

7

Between 18 - 74
Correct Age
Makerec Member

100

Age 17
Wrong Age
Makerec Member

Under 18
Wrong Age
Makerec Member

Over 74
Wrong Age
Makerec Member

Age 75
Wrong Age
Makerec Member

9601

Visit completed

9603

CPT visit

Vflag = C

9602 —HCPCS visit→ 9613 —Vflag = H→ 9605 —Provider = 11111→ 9606

SNO Visit

9604 —Vflag = S→ 9605

Provider specialty

9607

Visit during MY

9608

QRDA
Visit Flag = 0

9609

Visit end = visit start
Makerec Visit

9610

Diagnosis start between
1/1/MY-10 and 6/30/MY

9611 —Diabetes SNO→ 9612 —QRDA Diag Flag = 0→ 9615

Dflag = S

9614

Diagnosis End = None
Makerec Diag

Done

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IPP Criteria

- **Initial Patient Population** =

AND: "Diagnosis: Diabetes" overlaps "Measurement Period"

AND: Age>= 18 year(s) at: "Measurement Period"

AND: Age< 75 year(s) at: "Measurement Period"

AND: Union of:

- "Encounter, Performed: Office Visit"   **Office Visit" 101_11_1005_CPT**

- "Encounter, Performed: Face-to-Face Interaction"   **101_11_1216_SNO**

- "Encounter, Performed: Preventive Care Services - Established Office Visit, 18 and Up" **Preventive Care Services - Established Office Visit, 18 and Up" 101_11_1125_CPT**

- "Encounter, Performed: Preventive Care Services-Initial Office Visit, 18 and Up" **Preventive Care Services-Initial Office Visit, 18 and Up" 101_11_1115_CPT**

- "Encounter, Performed: Home Healthcare Services" **Home Healthcare Services" 101_11_1080_CPT**

- "Encounter, Performed: Annual Wellness Visit" **526_2_1363_HCPCS**

- during "Measurement Period"

All IPP Encounter CPT codes are combined into the DHO_Visit_CPT.txt file

Diabetes
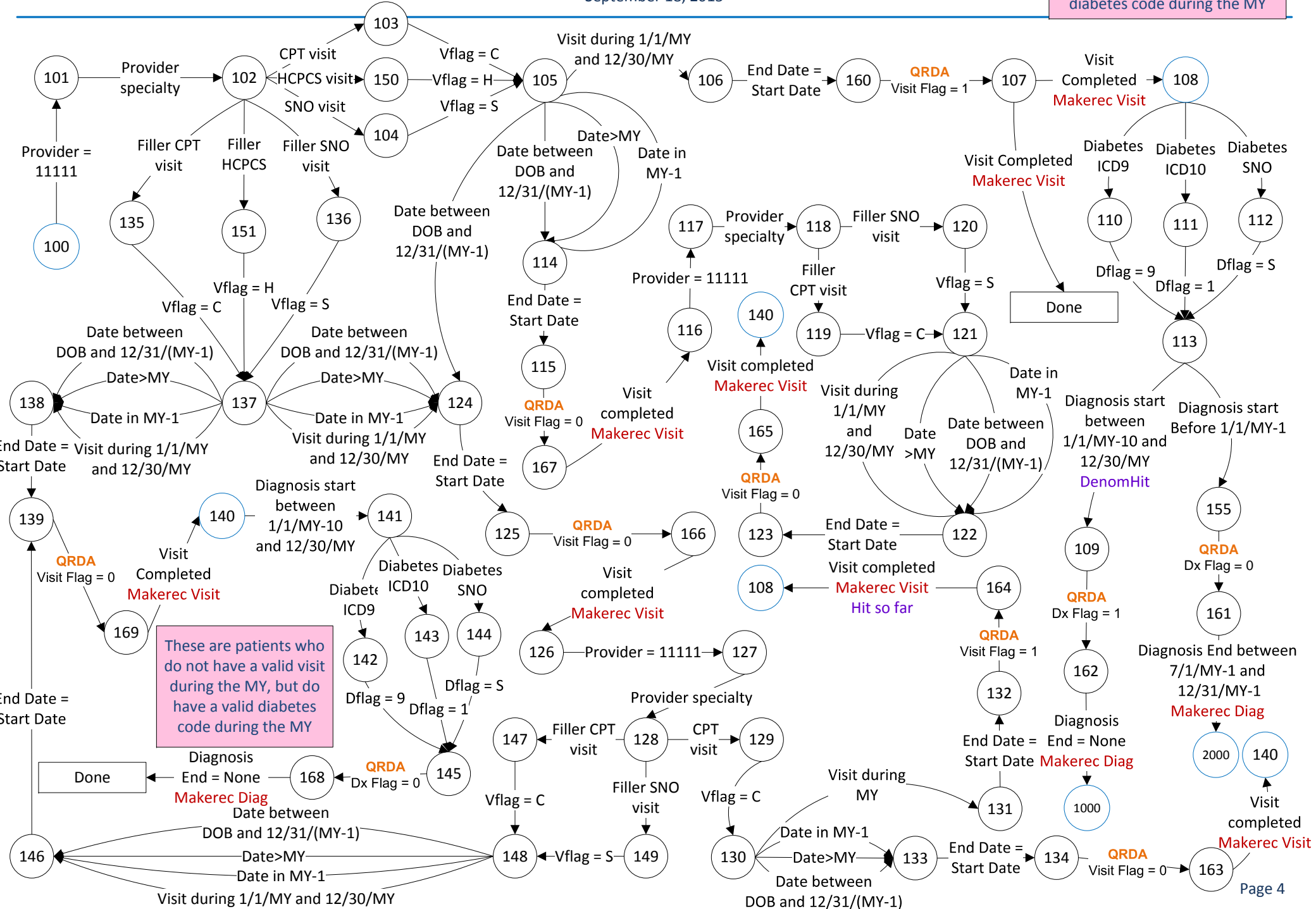**103_11_1001_ICD9**
103_11_1002_ICD10
103_11_1003_SNO

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These are patients who have a valid visit during the MY, and may or may not have a valid diabetes code during the MY

These are patients who do not have a valid visit during the MY, but do have a valid diabetes code during the MY

A flowchart diagram with numbered state nodes and transitions. Key labeled nodes and edges include:

- 101 → Provider specialty → 102
- Provider = 11111 → 100
- 102 → CPT visit → 103
- 102 → HCPCS visit → 150
- 102 → SNO visit → 104
- 102 → Filler CPT visit → 135
- 102 → Filler HCPCS → 151
- 102 → Filler SNO visit → 136
- 150: Vflag = C, Vflag = H, Vflag = S → 105
- 105 → Visit during 1/1/MY and 12/30/MY → 106
- 106 → End Date = Start Date → 160 → QRDA Visit Flag = 1 → 107 → Visit Completed Makerec Visit → 108
- 107 → Visit Completed Makerec Visit
- 108 → Diabetes ICD9 → 110 (Dflag = 9), Diabetes ICD10 → 111 (Dflag = 1), Diabetes SNO → 112 (Dflag = S) → 113
- 105 → Date between DOB and 12/31/(MY-1) → 114, Date>MY, Date in MY-1
- 114 → End Date = Start Date → 115 → QRDA Visit Flag = 0 → 167 → Visit completed Makerec Visit
- 117 → Provider specialty → 118 → Filler SNO visit → 120 → Vflag = S → 121
- 118 → Filler CPT visit → 119 → Vflag = C → 121
- 116 → Provider = 11111 → 117
- 140 node
- 121 → Visit during 1/1/MY and 12/30/MY, Date>MY, Date between DOB and 12/31/(MY-1), Date in MY-1 → 122
- 122 → End Date = Start Date → 123, QRDA Visit Flag = 0 → 165 → Visit completed Makerec Visit → 140
- 123 → Visit completed Makerec Visit Hit so far → 108
- 135 → Vflag = C → 137, 151 → Vflag = H → 137, 136 → Vflag = S → 124
- 137: Date between DOB and 12/31/(MY-1), Date>MY, Date in MY-1, Visit during 1/1/MY and 12/30/MY → 138/124
- 138 → End Date = Start Date → 139 → QRDA Visit Flag = 0 → 169 → Visit Completed Makerec Visit
- 124 → End Date = Start Date → 125 → QRDA Visit Flag = 0 → 166 → Visit completed Makerec Visit
- 141 → Diagnosis start between 1/1/MY-10 and 12/30/MY
- 141 → Diabetes ICD9 → 142 (Dflag = 9), Diabetes ICD10 → 143 (Dflag = 1), Diabetes SNO → 144 (Dflag = S) → 145
- 145 → QRDA Dx Flag = 0 → 168 → Diagnosis End = None Makerec Diag → Done
- 128 → Provider specialty, CPT visit → 129, Filler CPT visit → 147, Filler SNO visit → 149
- 129 → Vflag = C, 147 → Vflag = C → 148, 149 → Vflag = S → 148
- 148 → Date between DOB and 12/31/(MY-1), Date>MY, Date in MY-1, Visit during 1/1/MY and 12/30/MY → 146
- 146 → End Date = Start Date → Done
- 130 → Date in MY-1, Date>MY, Date between DOB and 12/31/(MY-1) → 133 → End Date = Start Date → 134 → QRDA Visit Flag = 0 → 163 → Visit completed Makerec Visit → 140
- 131 → Visit during MY → 130
- 132 → End Date = Start Date → 131
- 164 → QRDA Visit Flag = 1 → 132
- 109 → QRDA Dx Flag = 1 → 162 → Diagnosis End = None Makerec Diag → 1000
- 113 → Diagnosis start between 1/1/MY-10 and 12/30/MY DenomHit → 109
- 113 → Diagnosis start Before 1/1/MY-1 → 155 → QRDA Dx Flag = 0 → 161 → Diagnosis End between 7/1/MY-1 and 12/31/MY-1 Makerec Diag → 2000, 140
- 140 → Visit completed Makerec Visit

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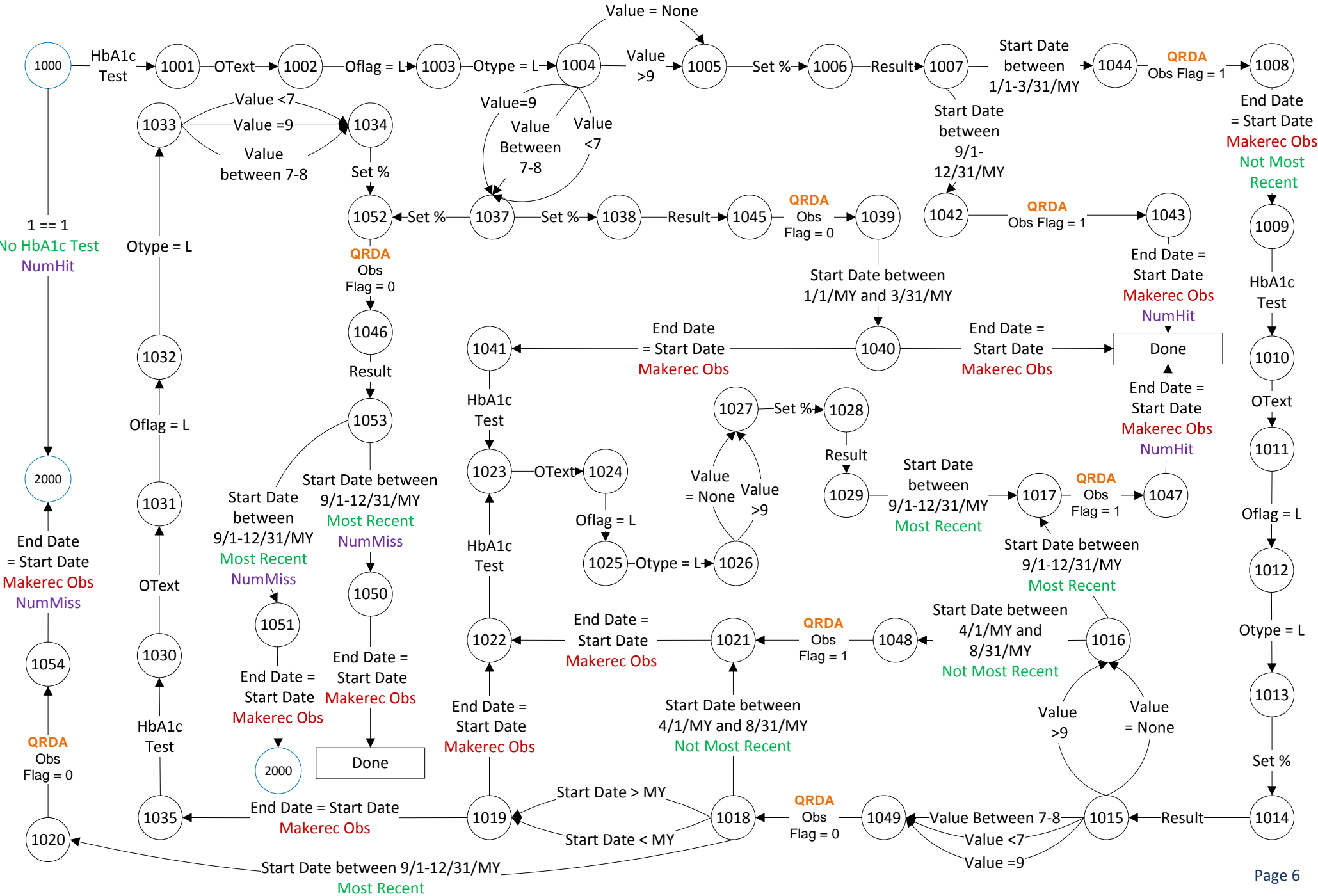| Numerator Criteria |
|---|

Numerator =

AND:

- OR: "Laboratory Test, Performed: HbA1c Laboratory Test" satisfies all:

    - Most Recent: (result) during "Measurement Period"

    - (result > 9 %)

- OR:

    - AND: Most Recent: "Occurrence A of Laboratory Test, Performed: HbA1c Laboratory Test" during "Measurement Period"

    - AND NOT: "Occurrence A of Laboratory Test, Performed: HbA1c Laboratory Test (result)"

- OR NOT: "Laboratory Test, Performed: HbA1c Laboratory Test" during "Measurement Period"

HbA1c Laboratory Test
198_11_1024_LOINC

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Diagnosis End = None
Makerec Diag

Done

Diagnosis End between
9/1/MY+1 and 12/31/MY+1
Makerec Diag

Diagnosis start between
1/1/MY+1 and 8/30/MY+1

2007

2005

Diagnosis start between
12/1/MY-1 and 8/30/MY

2008

Diagnosis start between
1/1/MY+1 and
8/30/MY+1

Dflag = 1

2004

2006

Diagnosis
End = None
Makerec Diag

Diagnosis End
between
9/1/MY and
12/31/MY
Makerec Diag

Dflag = 9

Dflag = S

Done

Filler
ICD10

Diagnosis End between
9/1/MY-1 and 12/31/MY-1
Makerec Diag

Done

Done

End Date = Start Date
Makerec Obs

2054 — Set % → 2055

Result

Value
= None   Value
>9

2056

Start Date
between
9/1-12/31/MY

2057

2002

Filler
ICD9

2001

Filler SNO

2003

2053 ← Otype = L — 2052 ← Oflag = L — 2051 ← OText — 2050

Filler
LOINC

QRDA
Dx Flag = 0

Filler
ICD9

2018

Dflag = 9

Filler
SNO

2032 ← Otype = V — 2031 ← Oflag = L — 2040 ← OText — 2030

Filler
LOINC

2041

QRDA
Obs
Flag = 0

2000

QRDA
Dx Flag = 0

2042

2019

Dflag = S

2021

Value between 40 and 89

Filler
ICD10

2020

Dflag = 1

Diagnosis start
between
1/1/MY-1 and
6/30/MY

2033

Set mmHg

QRDA
Proc Flag = 0

2034

Done

2022

Result

Procedure Ordered
Makerec Proc

2012 ← Filler CPT — 2009 — Filler SNO → 2013

2035

Procedure Performed
Makerec Proc

Filler HCPCS

Done

2017

2010

Pflag = C

Pflag = S

Diagnosis End = None
Makerec Diag

Start Date between
7/1/MY and 12/31/MY

End Date = Start Date
Makerec Obs

End Date = Start Date

2016

Pflag = H

2011

Procedure start
after MY

2014

Done

2036

2015

Procedure Performed
Makerec Proc

Done

Procedure start between
1/1/MY-1 and 12/31/MY

End Date = Start Date