OHCA DSS Report

Project Design/Analysis Document

Report #/Title:	**HEDIS – Annual Dental Visit (ADV)**		
Edited By:	Bryan Hamilton		
Due Date:		**Last Changed Date:**	**7/15/2008**

Narrative Description – *Describe the high level purpose of the report.*

This report shows the percentage of enrolled member 2-21 years of age who had at least one dental visit during the measurement year. This measure is reported for each of the following age stratifications and as a combined rate.

2-3-years	11-14-years	19-21-years
4-6-years	15-18-years	Total
7-10-years		

Rationale:
Per NCQA, the single most common chronic childhood disease is dental caries (tooth decay). Over 50 percent of 5 to 9 year olds have at least one cavity or filling and that proportion increases to 78 percent among 17 year olds. The social impact of oral diseases in children is substantial: 1) more than 51 million school hours are lost each year to dental-related illness; 2) poor children suffer nearly 12 times more restricted-activity days than children from higher income families and 3) untreated dental disease can lead to problems in eating, speaking and attending to learning. Utilization of dental services by children is relatively low despite the fact that comprehensive coverage for pediatric dental services has been required under Medicaid.

Deliverables – *Bullet-point the deliverables that have been identified for this project.*

A Business Objects file containing:

- Counts of eligible members who are 2-21 years old (denominator).
- Eligible members that received one or more dental visit during the measurement year (numerator).
- Stratification of the eligible members into age groups 2-3, 4-6, 7-10, 11-14, 15-18, 19-21, and total count.
- Percentage of the eligible population that received one or more dental visit during the measurement year.

Methods – *Identify the data sources used, BO universes, use of statistical analysis, etc.*

The eligible population can be obtained from a yearly processed Access file located in the following directly:

Z:\\ephi\eds\irg\HEDIS Reports\HEDIS_ELIG_** (where ** is the current year)

Transfer the table “Final_Denom” to the HEDIS ADV 2008 Access database. That table should have the following fields:

- CLIENT_ID
- PGM (Program Client is enrolled in)
- DOB (Date of Birth)
- SEX
- AGE
- ELIG (11-12 Month program eligibility)

Replace the existing Final_Denom table with this table.

Access Query – 01- EligOn12/31

This query creates a table called ELIGIBLE that has all members that between ages 2 and 21.

Access Query – 02- ADVDenom_07

This query creates a table called ADVDENOM_xx that has all eligible members for denominator status for this measure. It also places each client into the age stratification required for this measure.

Export table ADVDENOM_xx to a temp table in Oracle. Make sure to reformat the CLIENT_IDs for use in Business Objects.

```
update ADVDENOM_07
    set CLIENT_ID=rpad(CLIENT_ID,12,' ');
commit;
```

Open Business Objects file HEDIS Report 2008- Annual Dental Visit CY2007

This is the final report for this measure. First update the BO query called Denominator. The free-hand SQL should be as follows (red text is user inputted code):

```
SELECT
 count(DISTINCT HAMILTOB.ADVDENOM_07.CLIENT_ID),
 HAMILTOB.ADVDENOM_07.PGM,
  HAMILTOB.ADVDENOM_07.AGEGRP
FROM
 HAMILTOB.ADVDENOM_07

group by
 HAMILTOB.ADVDENOM_07.PGM,
 HAMILTOB.ADVDENOM_07.AGEGRP
```

Next step is to update the Numerator file. The SQL should be as follows with user changes (user changes are in red):

```
SELECT
  DSS.T_CA_ICN.ID_RECIP,
  HAMILTOB.ADVDENOM_07.PGM,
  HAMILTOB.ADVDENOM_07.AGEGRP
FROM
  DSS.T_CA_ICN,
  DSS.T_CA_INC_TIME_KEY,
  DSS.T_D_UB92_HDR_ICD9,
  HAMILTOB.ADVDENOM_07
WHERE
  ( DSS.T_CA_ICN.INC_TIME_KEY=DSS.T_CA_INC_TIME_KEY.INC_TIME_KEY  )
  AND  ( DSS.T_CA_ICN.SAK_CLAIM=DSS.T_D_UB92_HDR_ICD9.SAK_CLAIM(+)  )
  AND  (
  DSS.T_CA_INC_TIME_KEY.INC_DTE_CY  =  2007
  AND DSS.T_CA_ICN.ID_RECIP=HAMILTOB.ADVDENOM_07.CLIENT_ID
  AND  DSS.T_CA_ICN.CDE_DTL_STATUS  =  'P'
  AND  (DSS.T_CA_ICN.CDE_PROC  IN  ('70300', '70310', '70320', '70350', '70355')
  OR   DSS.T_CA_ICN.CDE_PROC  BETWEEN  'D0120' AND 'D0999'
  OR   DSS.T_CA_ICN.CDE_PROC  BETWEEN  'D1110' AND 'D2999'
  OR   DSS.T_CA_ICN.CDE_PROC  BETWEEN  'D3110' AND 'D3999'
  OR   DSS.T_CA_ICN.CDE_PROC  BETWEEN  'D4210' AND 'D4999'
  OR   DSS.T_CA_ICN.CDE_PROC  BETWEEN  'D5110' AND 'D5899'
  OR   DSS.T_CA_ICN.CDE_PROC  BETWEEN  'D6010' AND 'D6205'
  OR   DSS.T_CA_ICN.CDE_PROC  BETWEEN  'D7111' AND 'D7999'
  OR   DSS.T_CA_ICN.CDE_PROC  BETWEEN  'D8010' AND 'D8999'
  OR   DSS.T_CA_ICN.CDE_PROC  BETWEEN  'D9110' AND 'D9999'
  OR   DSS.T_D_UB92_HDR_ICD9.CDE_PROC_ICD9  LIKE  '23%'
  OR   DSS.T_D_UB92_HDR_ICD9.CDE_PROC_ICD9  LIKE  '24%'
  OR   DSS.T_D_UB92_HDR_ICD9.CDE_PROC_ICD9  =  '8712'
  OR   DSS.T_D_UB92_HDR_ICD9.CDE_PROC_ICD9  =  '8711'
  OR   DSS.T_D_UB92_HDR_ICD9.CDE_PROC_ICD9  =  '8931'
  OR   DSS.T_D_UB92_HDR_ICD9.CDE_PROC_ICD9  =  '9355'
  OR   DSS.T_D_UB92_HDR_ICD9.CDE_PROC_ICD9  =  '9654'
  OR   DSS.T_D_UB92_HDR_ICD9.CDE_PROC_ICD9  =  '9722'
  OR   DSS.T_D_UB92_HDR_ICD9.CDE_PROC_ICD9  =  '9997'
```

```
 OR   DSS.T_D_UB92_HDR_ICD9.CDE_PROC_ICD9  BETWEEN  '9733' AND '9735')
 )
```

Make sure that all procedure/revenue codes are accurate for the current year.

Testing & Verification – *Describe the high level testing analyst will employ to verify that completed work satisfies the expectations of the report.*

Employ the following testing procedures:

1. Review objects available in applicable universes and confirm accuracy of SQL generated.
2. Design and run test queries to explore contents of individual fields used in original query.
3. Check values entered in condition statements against values in other universes.
4. Verify that resultant values are within expected ranges.
5. Manually review subset of records to observe actual versus expected results.

Customer Acceptance – *Customer to indicate acceptance of High Level Project Design*

_____ _____

Accepted By Date