

Maine Quality Forum
Data Warehouse Quality Assessment

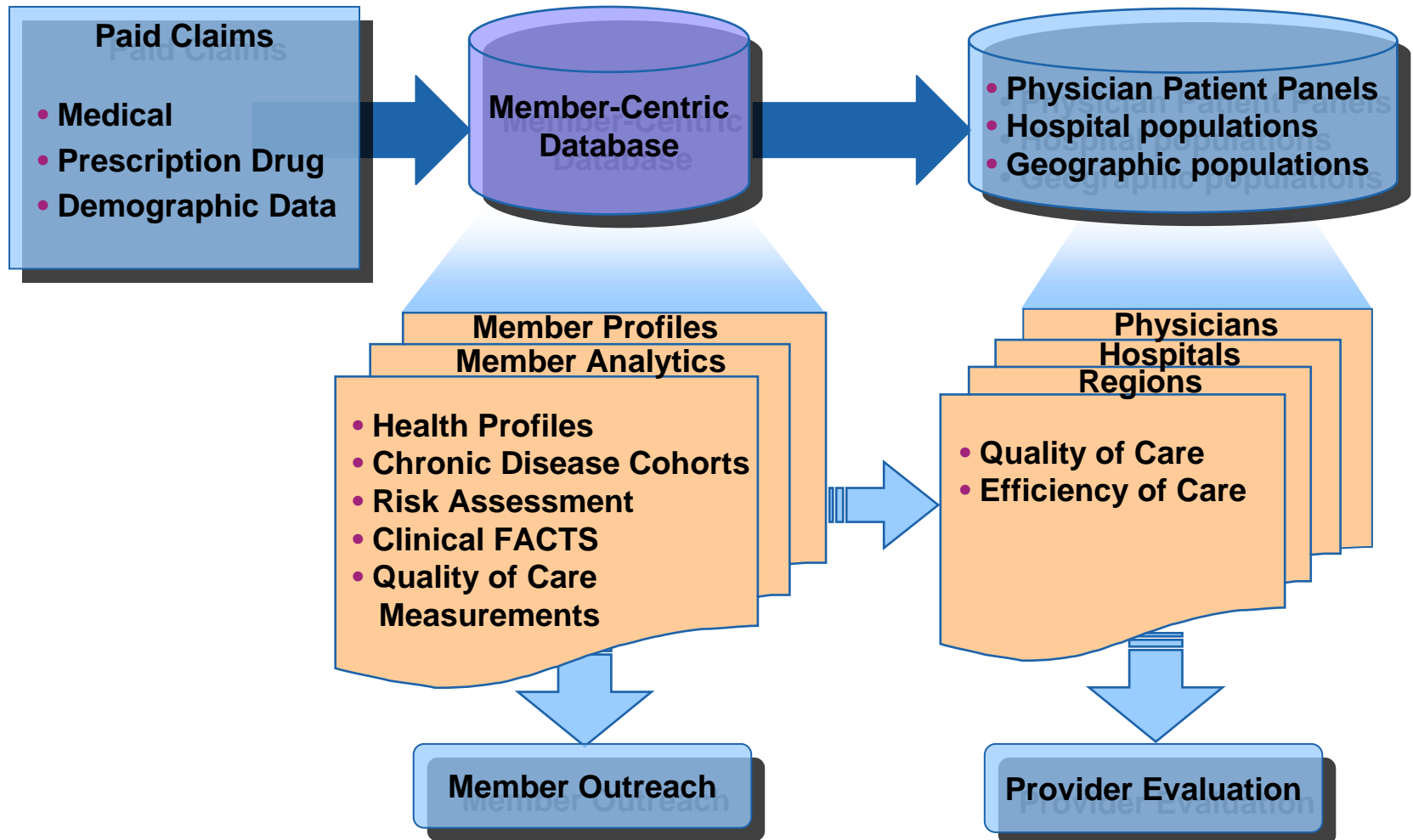
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June 9, 2006

Today's Agenda

- Overview of MQF's Data Warehouse Construction
- MQF Data
- Data Warehouse Description
- Quality control process
- Q&A

The Purpose...

- Create a member-centric database to improve care to Maine residents and reduce unwarranted costs



MQF Data Represents ...

- 720,000 members per month
- 1.3 million services per month
- \$140 million paid per month

- Jan 2003 – Jun 2005

The Warehouse Build Objective

- Warehouse MQF's all payer health care insurance data into a structure to enable analyses of health care in the state of Maine

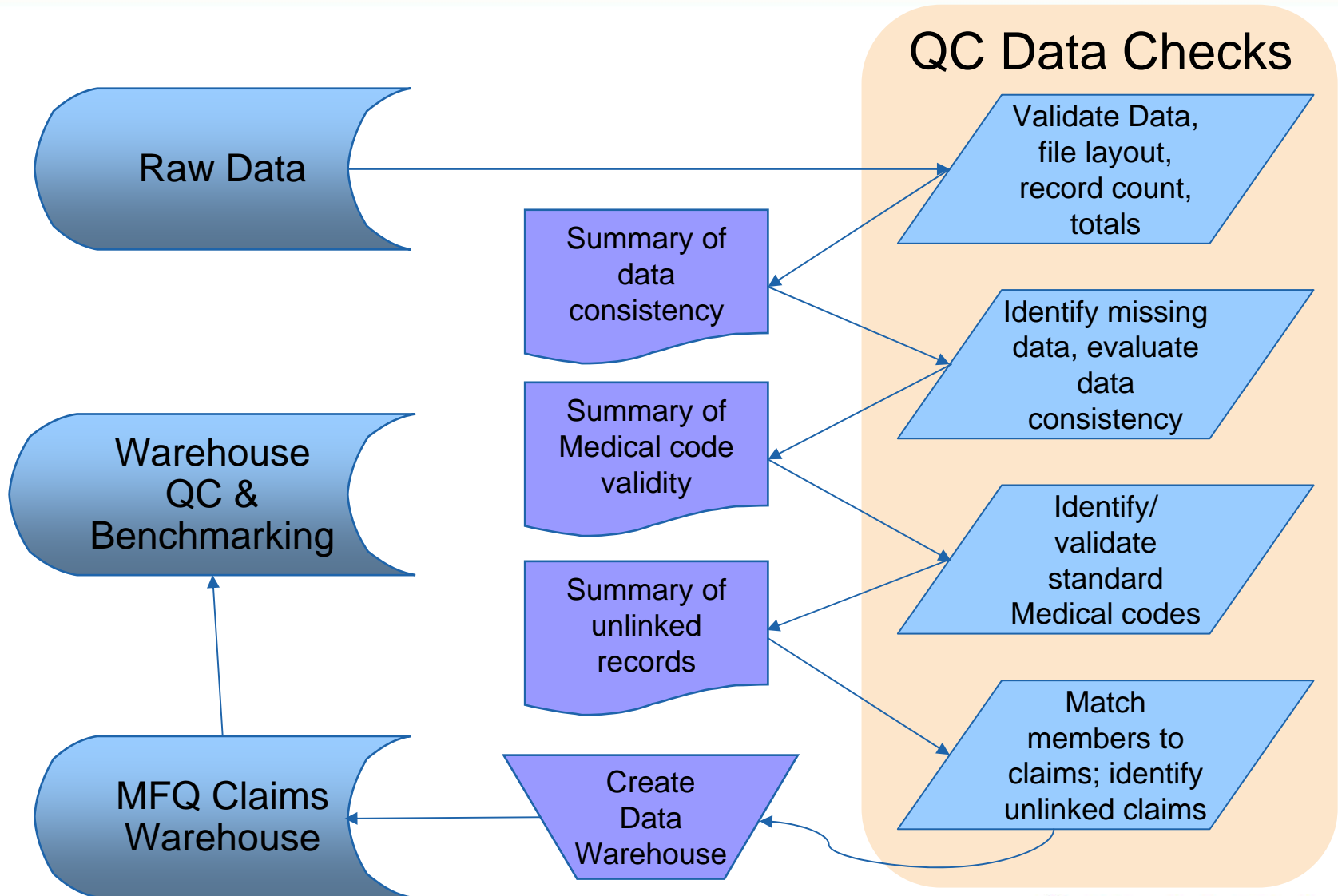


MQF Data Files ...

- Three types of raw data
 - Member
 - Demographics
 - Medical eligibility
 - Pharmacy eligibility
 - Paid claims
 - Medical claims
 - Pharmacy claims
 - Provider data
 - Provider ID linkages to claims
 - Consolidation of providers with multiple payers

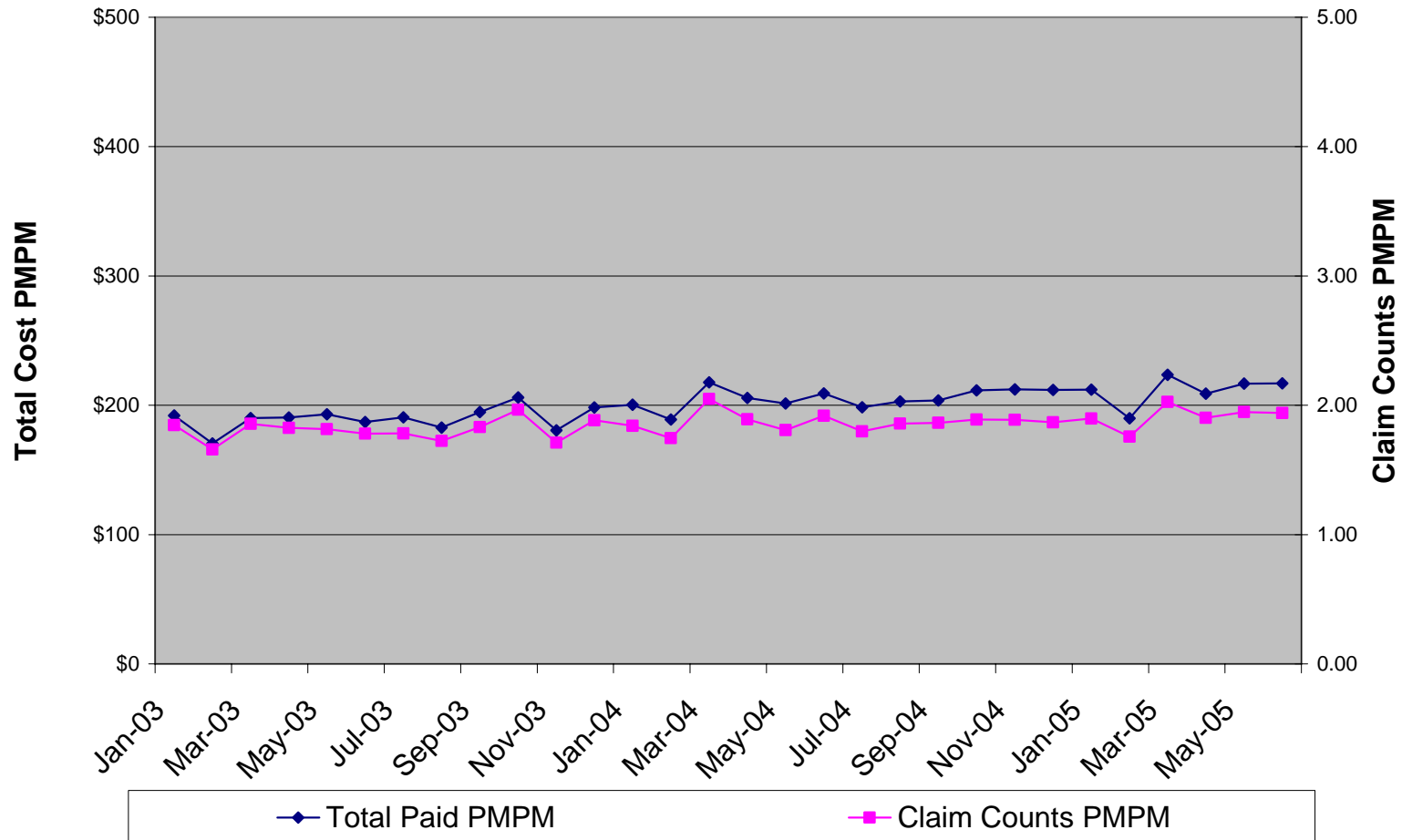
- Data transfer completed as of 5/17/2006

Building the Warehouse



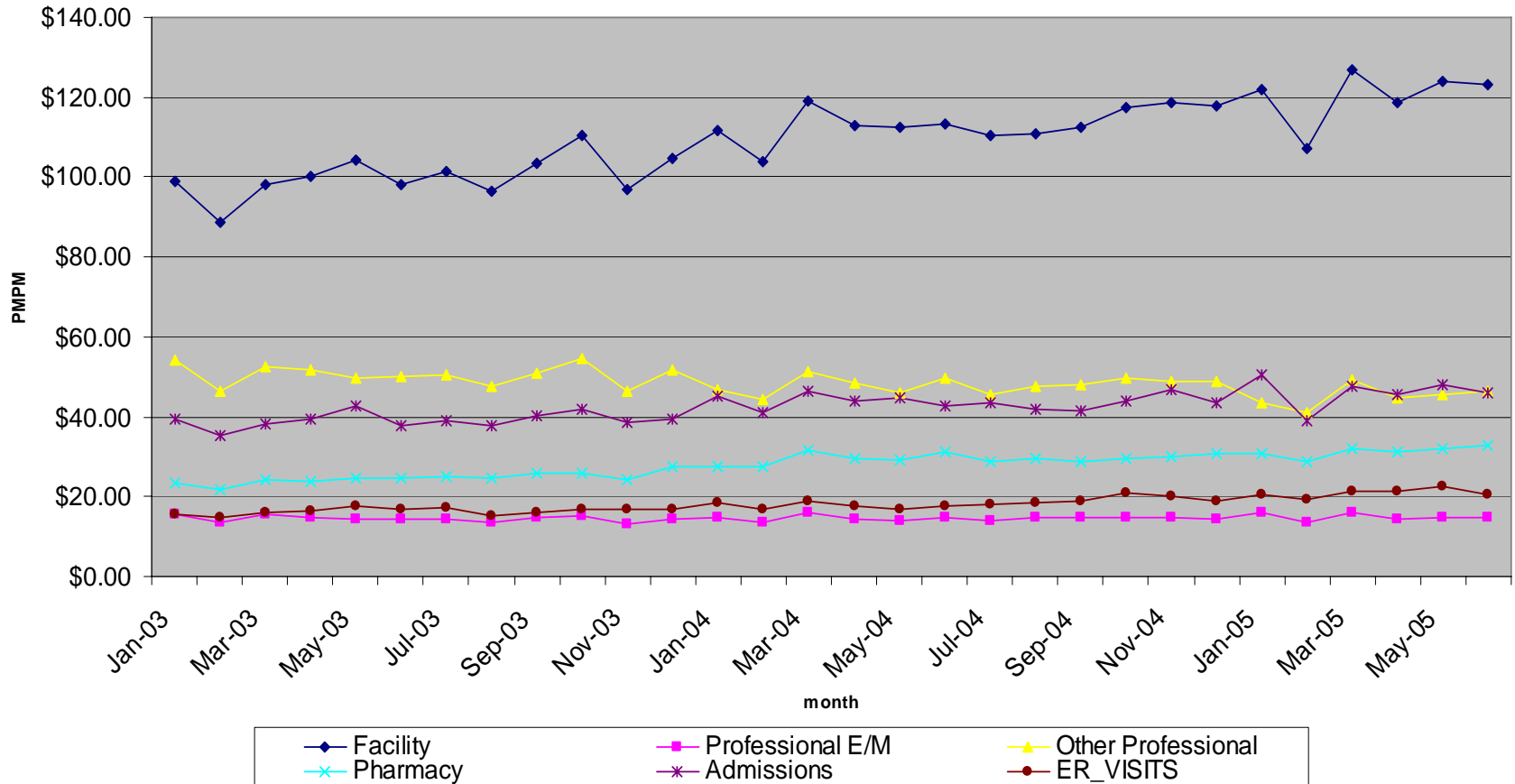
QC – overall consistency over time

Claim Counts and Amount Paid PMPM



QC – components consistent over time

Total Dollars by Claim Type



QC - raw data fields

- Medical code validity
 - Diagnosis codes: 99% valid
 - Procedure codes: 99% valid
 - Revenue codes: 97% valid

- Internal linkages
 - Rx claims to membership: 98%
 - Medical claims to all membership: 98%
 - Medical claims to provider detail file: 100%
 - Medical claims to provider master file: 95%

QC – industry benchmarks

- MQF Per Member Per Month (PMPM) ranges are consistent with industry benchmarks

	Normal Range	MQF range	MQF Average
Total PMPM Cost	\$185-\$245	\$170 - \$223	\$196
Facility Claims PMPM	\$85-\$110	\$88 - \$126	\$107
Pharmacy Claims PMPM	\$33 - \$40	\$22 - \$33	\$28
Professional E & M Claims	\$18 - \$27	\$13 - \$16	\$14
Other Professional Claims	\$49 - \$68	\$41 - \$55	\$47

QC – industry benchmarking

- Number of inpatient and ER visits per thousand members fall within the normal range

Quality Checks	Commercial Population	MQF
Inpatient Admissions (per 1k members per month)	3-7	6
Emergency Visits (per 1k members per month)	10-20	20

QC - PMPM Breakdown

- MQF's proportions of different claims types are within the normal range

	Percent of Total PMPM	MQF Percent of Total
Facility Claims PMPM	~46%	54.4%
Pharmacy Claims PMPM	~18%	14.3%
E&M Professional Claims	~10%	7.45
Non-E&M Professional Claims	26%	24%

Quality Control Checks

... all passed

- File layout (presence of expected fields)
- Record counts
- Consistency over time
- Medical validity
- Internal linkages
- Industry benchmarks

Content analysis ...

Issues currently checking

- Inpatient procedures mappable to physicians claims
 - Appendectomies
 - Caesarian sections
 - Others
- Validation of inpatient services against Maine Hospital Discharge Database
- Any local billing practices
 - Billing by physician group only
 - Rolled-up 'global' hospital claims

Summary

- The MQF all payers data does not appear to present any major unique challenges for a paid claims database that would jeopardize intended analyses
- MQF's data warehouse appears able to support analysis of a wide range of quality and efficiency measures including
 - Geographical variation analysis
 - HEDIS measures
 - HDAS preference sensitive and supply sensitive measures
- All such databases have idiosyncrasies which can limit the ability to answer some specific detailed questions
- Continued discussions with MQF to improve data quality in the future