

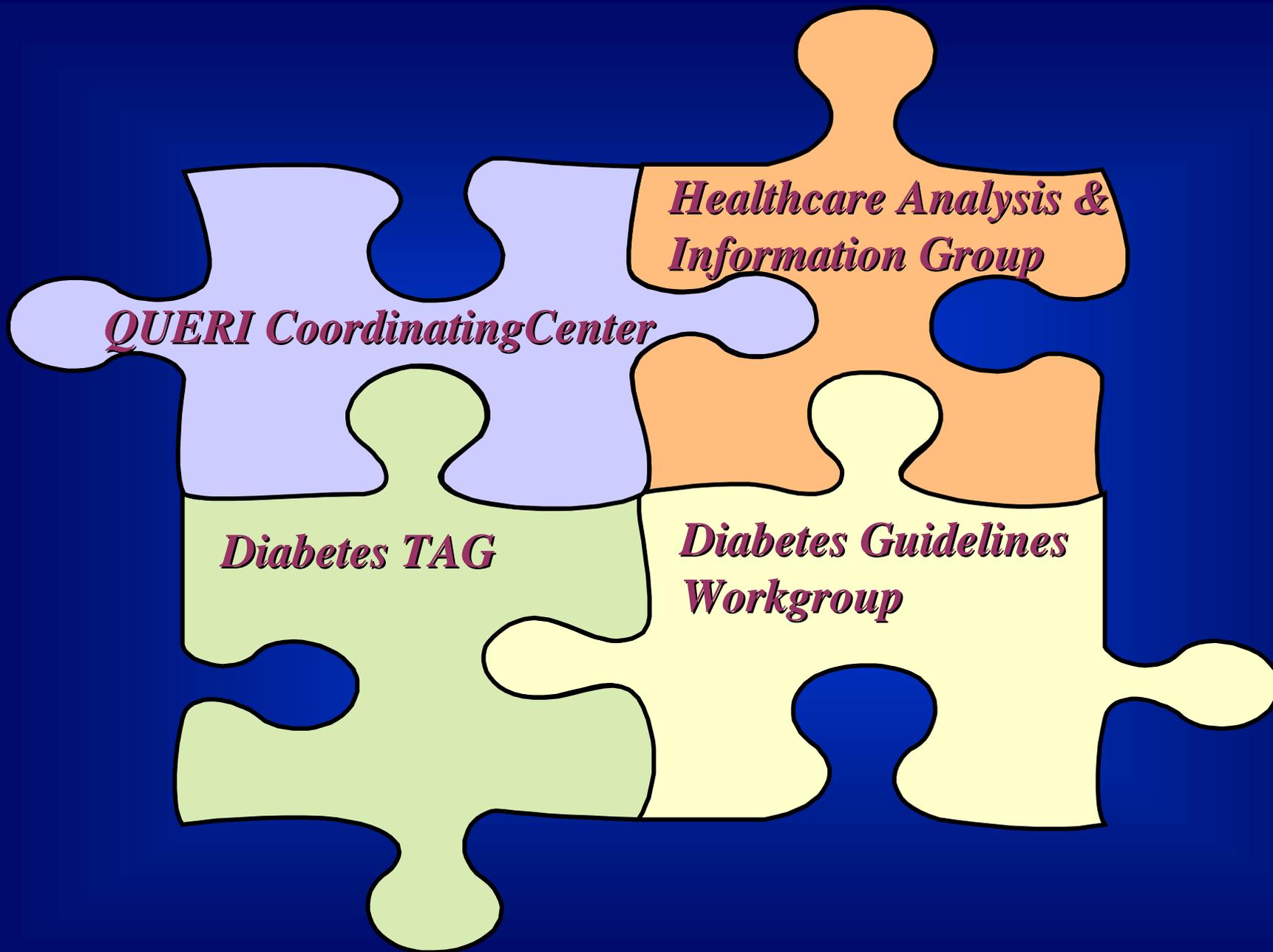
Healthcare Analysis and Information Group
Office of Policy and Planning

VIREC Briefing: HAIG Diabetes Projects
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QUERI Coordinating Center

*Healthcare Analysis &
Information Group*

Diabetes TAG

*Diabetes Guidelines
Workgroup*

Aggregate Information Management Strategic Objectives:

1. Validate Diabetes Administrative database as the foundation for a prevalence based approach.
2. Determine Direct Diabetes Associated Cost Centers
 - Pharmacy Utilization
 - Pharmacy Costs
 - Hospitalizations
 - Outpatient Usage
3. Develop Computer Links for Outcomes Measurements

Diabetes Registry Project Evolution

FY94	62 Stations	N = 139,646
FY96	110 Stations	N = 204,415
FY98	141 Stations	N = 373,471
FY99	All Stations	N = 503,371
FY00	All Stations	N = 639,323

Working Definition - Diabetes

- Patients With > 0 Outpatient Prescriptions for Glycemic Control or BGM
- Patients With > 0 Inpatient ICD-9-CM Codes Referencing Diabetes
- Patients With > 1 OPC ICD-9-CM Codes Referencing Diabetes

Search Criterion

- ◆ Patients receiving insulin (Source: HS501)
- ◆ Patients receiving oral hypoglycemics (Source: HS502)
- ◆ Patients receiving glucose monitoring items (e.g., Glucofilm, KetoDiastix, Test Tape) (Source: DX900)

Assumptions

- ◆ Insulin, oral hypoglycemics, and glucose monitoring supplies are used only by persons with diabetes.
- ◆ Most veterans with diabetes would obtain their medications through the VA.
- ◆ Insulin and Oral Data are the exclusive domain of the two OP VA Drug classes (i.e., HS501 and HS502).
- ◆ Diet controlled patients cannot be identified using the pharmacy database.

Pharmacy Data Collected

- Patient SSN
- Internal drug number from the local drug file
- Drug class the drug is in (e.g.HS501 or HS502)
- Pointer to the NDF file from the “ND” node of the drug file
- NDF print name
- NDF Generic Name
- Number of Rxs dispensed
- Number of 30 day equivalent Rxs
- Quantity of drug dispensed
- Current price per dispense unit in the local drug file
- Dispense units from the drug file
- Cumulative FY 2000 costs for the drug

Patient Specific Output

STN^

SSN^

FILLD^

DISPD^

DRUG^

DCOST^

EQRXS^

SRC

DIVS^

RXE^

RELED^

FILL^

QTY^

DAYS^

DFR^

Drug Specific Output

STN^

CLASS^

VAPN^

PSNDF^

VAGEN^

PPDU^

SULEN

DRUG^

DRUGNAME^

NDFE^

VAFORMN^

DISPU^

SRC^

FY98 Drug Data Detail

Insulin (HS501)

Oral Agents (HS502)

SMBG Monitoring Items

Other Glycemic Control Supplies

Lipid Agents (CV350)

Ace Inhibitors (CV800)

Angiotensin II Inhibitors (CV805 Cozaar)

Nicotinic Acid

Calcium Channel Blockers

Beta Blockers

All Other Drugs

FY98 Patient and Drug Specific Added Data “Keys”

Metformin

Acarbose

Tolbutamide

Troglidazone

Sulfonylureas

Orals

Urine Ketones Strips

Urine Ketones/Glucose Strips

Urine Glucose Strips

BG Monitoring Items

Strips

Pump Insulin

Pump Supplies

Pump

Vital Sign Package Data

STN^ DIVS^ SSN^
HT^ HTDT^
WT^WTDT^ WTDESC^
BMI^ BMIDT^
BPLST^BPLSTD^
BPPR1^BPPR1DT^
BPPR2^BPPR2DT^
BPAVG^
FLU^ FLUDT^ PNEU^ PNEUDT^
PAIN^PAINDT^
PCPR^PCPRDT

Laboratory Data Fields

STN^

SSN^

TEST^

DATE^

TIME^

RESULT^

SPECIMEN^

RANGELOW^

RANGELOW2^

RANGEHIGH^

RANGEHIGH2^

SEX

Laboratory Tests Included

Hemoglobin A1C or Glycated HGB

Creatinine

Cholesterol

HDL

LDL

Triglyceride

TSH

Urine protein-qual [DIPSTICK]

Urine protein

Microalbumin

Microalbumin/Creatinine Ratio

SGOT (AST)

SGPT (ALT)

FY98-00 Variables Available

- ❖ Pharmacy Glycemic Control Identifiers and Costs
- ❖ All Inpatient and Outpatient ICD-9-CM/CPT Diagnostic and Procedural Codes
- ❖ All Outpatient Stop Codes
- ❖ All Results for 13 Laboratory Tests
- ❖ Demographic Variables (Age; Gender; Marital Status; Race)
- ❖ All Vital Sign Package Data (BP; Ht; Wt; BMI)

Multiple Customers

- ❑ Patients
- ❑ Direct Care Providers
- ❑ Facility Management
- ❑ VISN Management
- ❑ VAHQ (PCS; OQM; HSR&D; QUERI)
- ❑ Congress
- ❑ External Partners (CDC; ADA; IHS; MTPPI)

Data Management

- ✓ **Benchmarking Opportunities (Internal and External)**
- ✓ **Focused Reviews**
- ✓ **SSN Lookups**
- ✓ **Committee Projects**
- ✓ **JCAHO Preparation**
- ✓ **Program Development**
- ✓ **Rewards and Reminders**
- ✓ **VISN Level Performance Monitors**

FY 2001 Objectives

- ❑ Expand Cost Information
- ❑ Incorporate ARC Attributed Costs
- ❑ Incorporate DSS Costs??
- ❑ Repeat Outcome Trending Analysis

Reports Available Online

- <http://vaww.va.gov/haig/diabetes/diab94.pdf>
- http://vaww.va.gov/haig/diabetes/diab96_main.pdf
- <http://vaww.va.gov/haig/diabetes/diab98.pdf>
- <http://vaww.va.gov/haig/Diabetes/FY98/Diab98Rpt2Exec.pdf>
- <http://vaww.va.gov/haig/Diabetes/FY98/LipidRenal.pdf>
- <http://vaww.va.gov/haig/Diabetes/FY98/SpDrug.pdf>
- <http://vaww.va.gov/haig/Diabetes/FY98/SpDrugOnly.pdf>
- <http://vaww.va.gov/haig/diabetes/fy98/V01Graphs.pdf>
- <http://vaww.va.gov/haig/diabetes/fy99/Diab99PD.pdf>
- <http://vaww.va.gov/haig/diabetes/ESDiab99.pdf>
- <http://vaww.va.gov/haig/AMP/AMP8999.pdf>
- <http://vaww.va.gov/haig/AMP/AMP8999II.pdf>

HAIG WebSite Address

<http://vaww.va.gov/haig>