# Evaluating Disease Management Return on Investment "Lessons Learned"

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- MAMSI Health Plans
- Health Plan Advantage
- Disease Management Programs
- Lessons Learned
- Evaluating DM ROI

#### **MAMSI Health Plans**

- MDIPA
- OCI
- MLH
- Alliance PPO
- HomeCall, HomeCall Infusion and Hospice

## Health Plan Advantage

- Integrated Structure versus Carve-Outs
- Build DM Programs
- Risk Stratification using Medical,
   Pharmacy and Lab values
- Teachable Moments
- Home Health Services including Infusion and Hospice Services
- Primary Care Physician (PCP)

## Health Plan Advantage

- Team Approach
- Use of "best" sub-acute facilities
  - Reduced readmits to acute care from 47% to 19%
  - Neurological Event Project
  - Rehabilitation Project
- Depression screening for all patients with chronic illnesses in Case Management
- New outpatient infusion center as alternative to home or inpatient care
- Medication Compliance

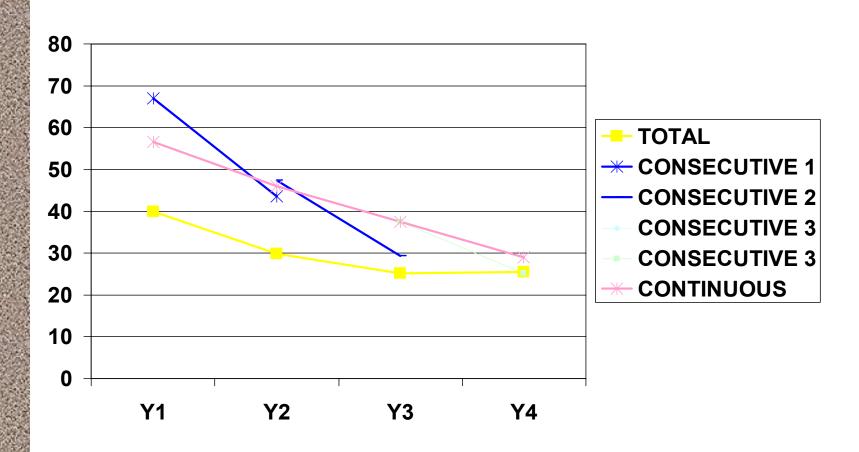
## Disease Management (DM) Programs

- Interventions stratified by severity
  - Post hospitalization to Case Managers (Level 3)
  - Repeat ER utilizers (Level 2)
    - Telephonic support and education
    - Utilizing Readiness to Change Model
    - HomeCall
  - Entire population (Level 1)
    - Newsletters
    - Educational mailings
    - Glucometers and Peak Flow Meters
    - Reminders

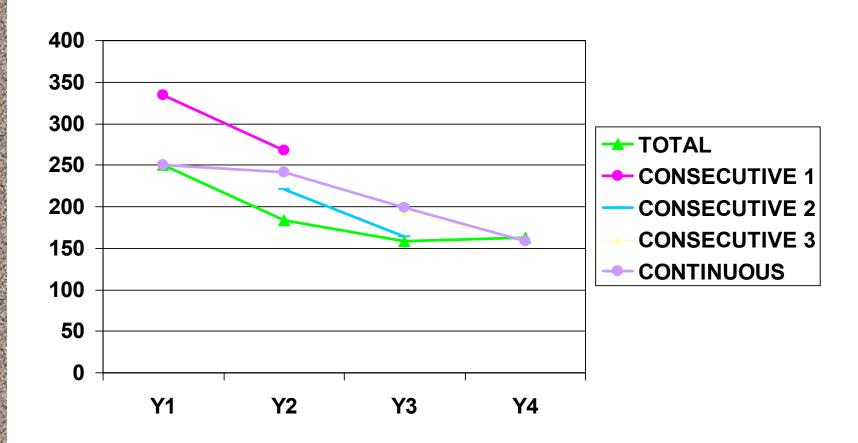
## **DM Programs**

- Case Management
- Telephonic Support
- Computerized telephonic support for behavior change based on Readiness to Change Model
  - Diet
  - Exercise
  - Smoking
  - Cholesterol
  - Hypertension
- Worksite Wellness
- Home Health

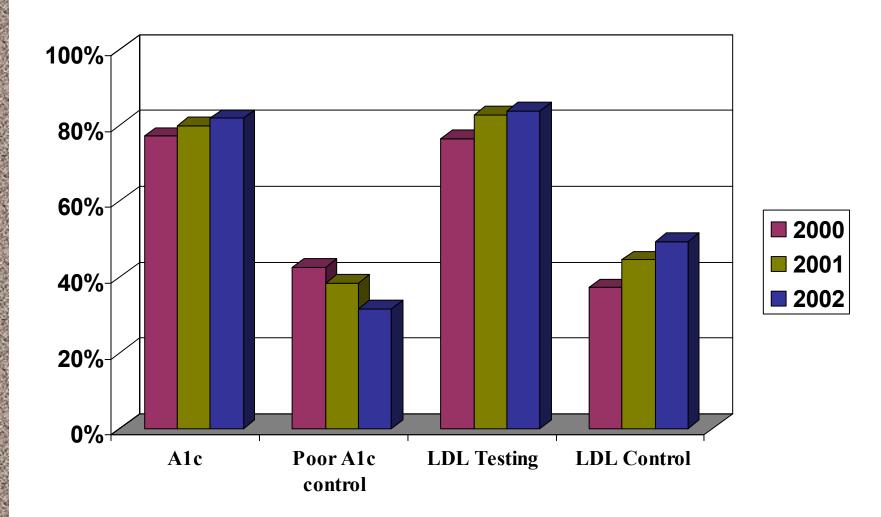
## Asthma Admits/1000 Asthmatics



### ER/1000 Asthmatics



#### **Diabetes**



- Population Definition and Measurement
- Data Collection
- Contracting Issues- Build or Buy
- What Works?

#### Population Definition and Measurement

- Enroll the entire target population
- Measure the entire population, the consecutive population and the continuous population
- Define measurable population and program goals
- Define enrollment of new members for quality purposes versus DM ROI purposes

#### **Data Collection**

- Measurement- utilization and cost
- Data quality, validity and timeliness
- Predictive modeling
- Interventions- member and provider
- Data transfer to vendor
- Overall program goals

#### **Contracting Issues**

- Build or Buy
  - Internal data capacity & resources
  - Partnering with a third party

#### Funding

- Risk Sharing Per Member Per Month
- Prospective or Retrospective payment

#### Outcomes

- Cost Savings
- Utilization Shifts

#### What Works?

- Health Plan
  - -Defining the baseline costs and utilization
  - -Population based Programs
  - -Team Approach to Care Coordination
  - -Teachable moments
  - -Multiple contacts newsletter, CM, Health Ed.
  - -Worksite Wellness
- Physicians
- Members

## **Evaluating DM ROI**

- Population Do they really have the disease (or just allergies)
- Utilization shifts and Cost Shifts
- Baseline Utilization
  - HMO versus PPO
- Interventions
  - accurate phone numbers
  - completed calls not attempts
- Timeframe required to measure ROI

## **Evaluating ROI**

#### **Bottom Line:**

- Who did the work?
  - -Health Plan
  - -DM Program
  - -Physician
  - -Member
- What worked?
  - -Pharmacy Compliance
  - -Case Management
  - -Physician Treatment
  - -Behavior Change

## **Evaluating ROI**

#### **Bottom Line:**

- Can You Measure it?
  - –Data integrity
  - -Chart Review
- Can You Sustain the Program Over Time?
  - -Costs: Per Health Plan Member Per Month
  - -Fees: Per DM Program Participant Per Month
  - -Reconciliation: Cost Savings and Performance

## **Evaluating ROI Results**

#### Asthma

- 42% decrease in hospitalizations
- 49% decrease in ER visits

#### Diabetes

- >10% increase in sugar & cholesterol testing
- >10% increase in diabetic control

## • Secondary Prevention of Cardiovascular Disease

- >10% increase in medication after heart attack
- >30% increase in cholesterol control

#### New Prenatal and Neonatal Programs

>30% decrease in NICU bed days between 2000 and 2002\*