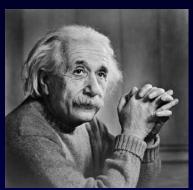


The world we have made as a result of the

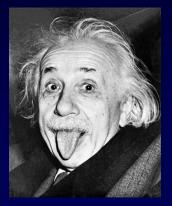
#### level of thinking we have done thus far

#### creates problems we cannot solve

#### at the same level of thinking



#### at which we created them.



#### - Albert Einstein

Fundamentals of Maintaining Healthy and High Performing People as a Core Business Strategy

Zero Trends: A Transformational Approach to Population Health

THE UNIVERSITY OF MICHIGAN

HEALTH MANAGEMENT RESEARCH CENTER

**Dee W. Edington** 



University of Michigan Health Management Research Center Copyright 2009

## **UM-HMRC Corporate Consortium**

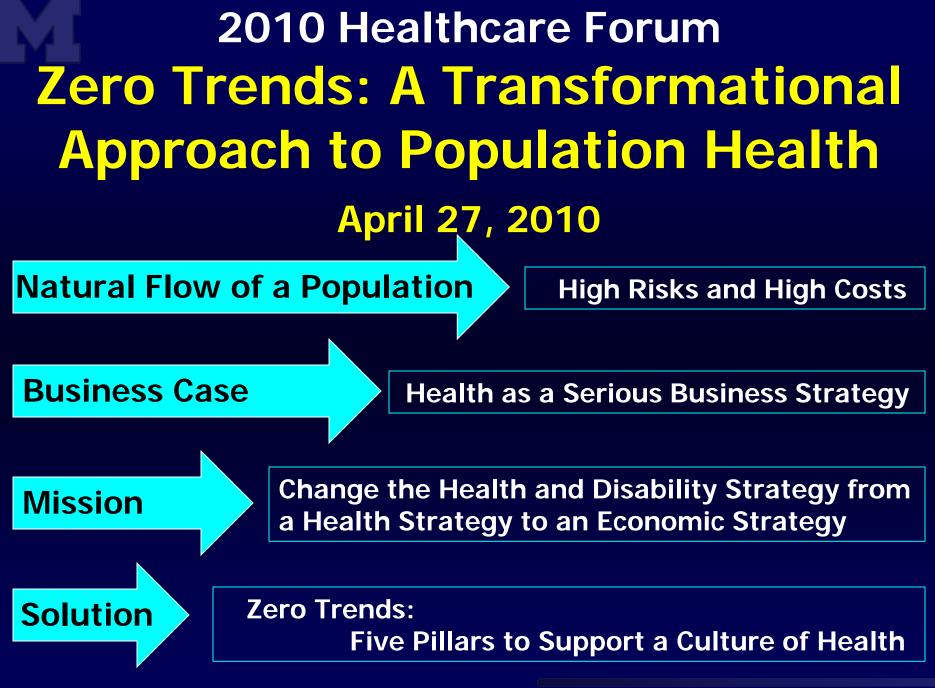
- ✓ Ford Delphi ✓ Kellogg ✓ US Steel ✓ We Energies ✓ JPMorgan Chase Delphi Automotive Southern Company Navistar Corporation University of Missouri Medical Mutual of Ohio Florida Power and Light St Luke's Health System Allegiance Health System Cuyahoga Community College United Auto Workers-General Motors
- Wisconsin Education Association Trust
- Australian Health Management Corporation

Steelcase (H)
 General Motors
 Progressive (H)
 Crown Equipment
 Affinity Health System
 SW MI Healthcare Coalition (H)

\*The consortium members provide health care insurance for over two million individuals. Data are available from three to 20 years.

Meets on First Wednesday of each December in Ann Arbor.







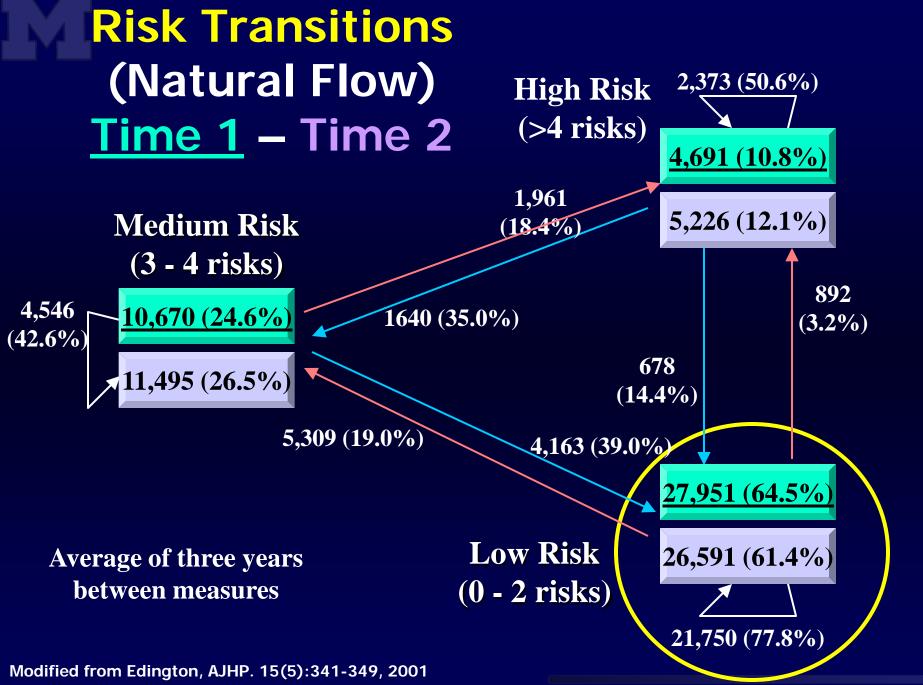
The Current Healthcare Strategy Natural Flow

Wait for Disease and then Treat

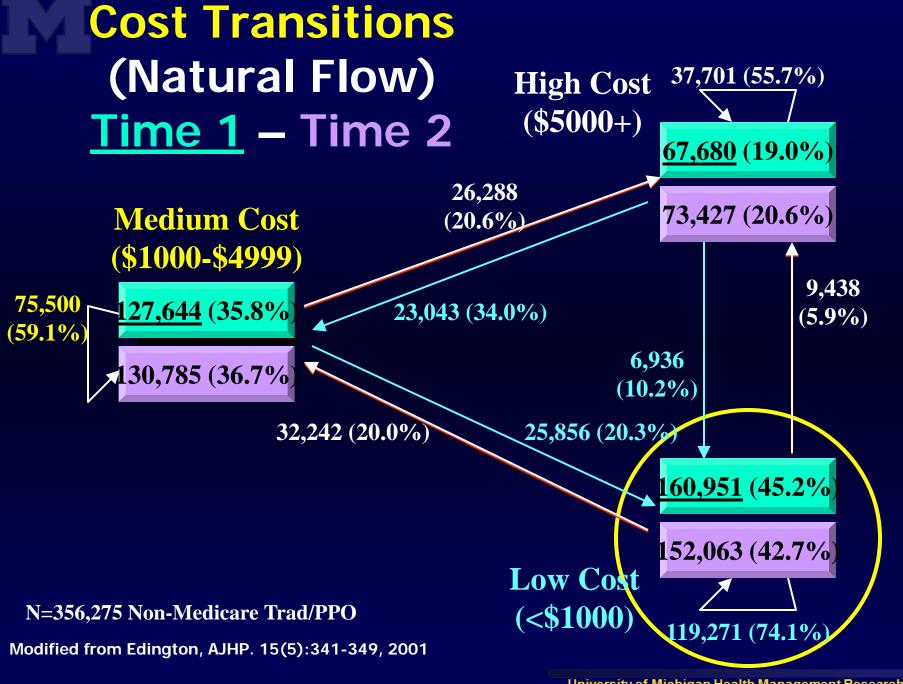
(...in Quality terms this strategy translates into "wait for defects and then fix the defects" ...)

## **Estimated Health Risks**

Health Risk Measure	High Risk		
Body Weight Stress Safety Belt Usage Physical Activity Blood Pressure Life Satisfaction Smoking Perception of Health	41.8% 31.8% 28.6% 23.3% 22.8% 22.4% 14.4% 13.7%	From the UM-HMRC Medical Economics Report Estimates based on the age- gender distribution of a specific corporate employee population	
Illness Days Existing Medical Problem Cholesterol	10.9% 9.2% 8.3%	OVERALL RISE Low Risk Medium Risk	<u>K LEVELS</u> 0-2 risks 3-4 risks
Alcohol Zero Risk	2.9% 14.0%	High Risk	5 or more

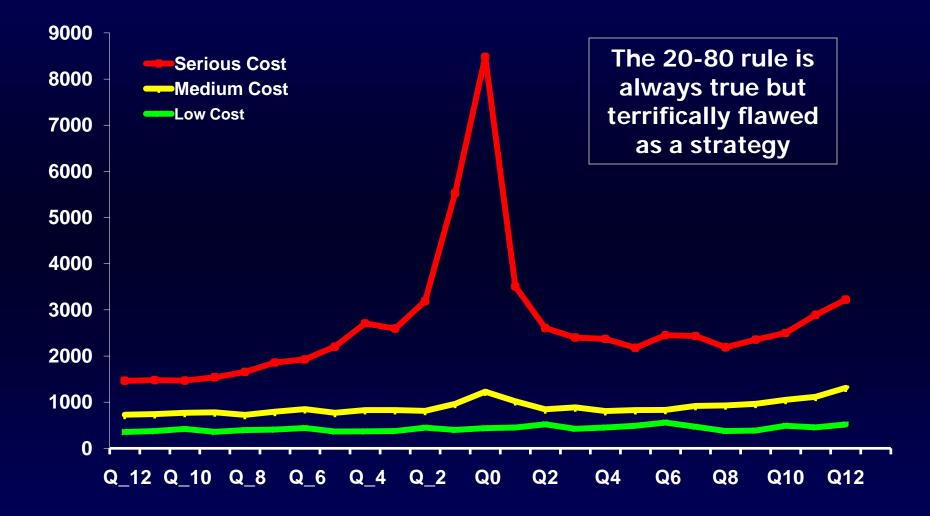


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#### Total Medical and Pharmacy Costs Paid by Quarter for Three Groups



Musich, Schultz, Burton, Edington. DM&HO. 12(5):299-326,2004

#### Costs Associated with Risks Medical Paid Amount x Age x Risk



#### Learnings from Section I

#### The flow of Risks is to High-Risk

#### The flow of Costs is to High-Cost

#### **Costs follow Risks and Age**

# Section II

Build the Business Case for the Health as a Serious Economic Strategy (175) Publications)

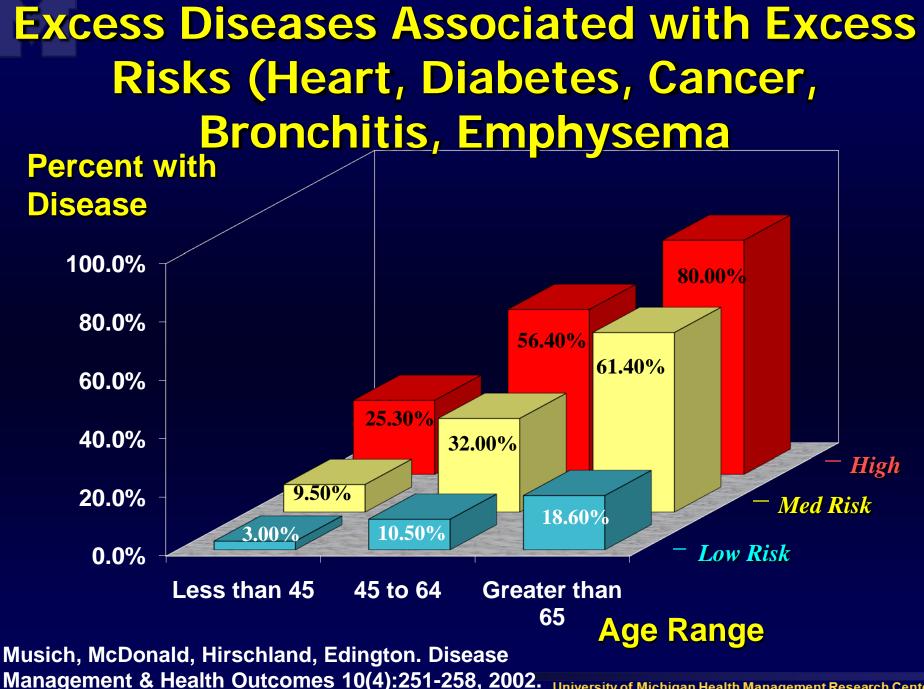
# Engage the Total Population to get to the Total Value of Health

Complex Systems (Synergy & Emergence) versus Reductionism (Etiology)



# **Business Concept**

# Health Risks are Associated With Disease



3, 2002. University of Michigan Health Management Research Center Copyright 2009

# Business Concept Excess Costs follow Excess Risks

#### Excess Disability Costs due to Excess Risks



Wright, Beard, Edington. JOEM. 44(12):1126-1134, 2002

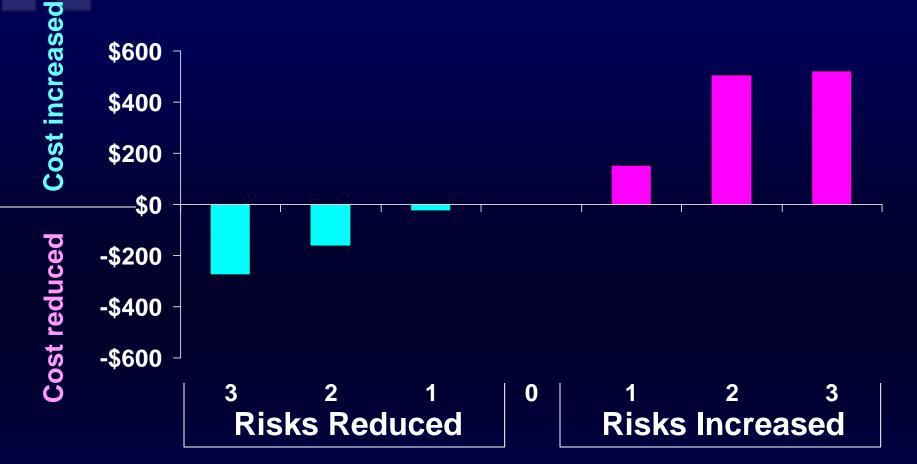
#### Association of Risk Levels with Corporate Cost Measures

Outcome Measures	Low- Risk	Medium- Risk	High- Risk	Excess Cost Percentage
Short-term Disability	\$ 120	\$ 216	\$ 333	<b>41%</b>
Worker's Compensation	\$ 228	\$ 244	\$ 496	<b>24%</b>
Absence	\$ 245	\$ 341	\$ 527	<b>29%</b>
Medical & Pharmacy	\$1,158	\$1,487	\$3,696	38%
Total	\$1,751	\$2,288	\$5,052	36%

Wright, Beard, Edington. JOEM. 44(12):1126-1134, 2002



#### Change in Costs follow Change in Risks



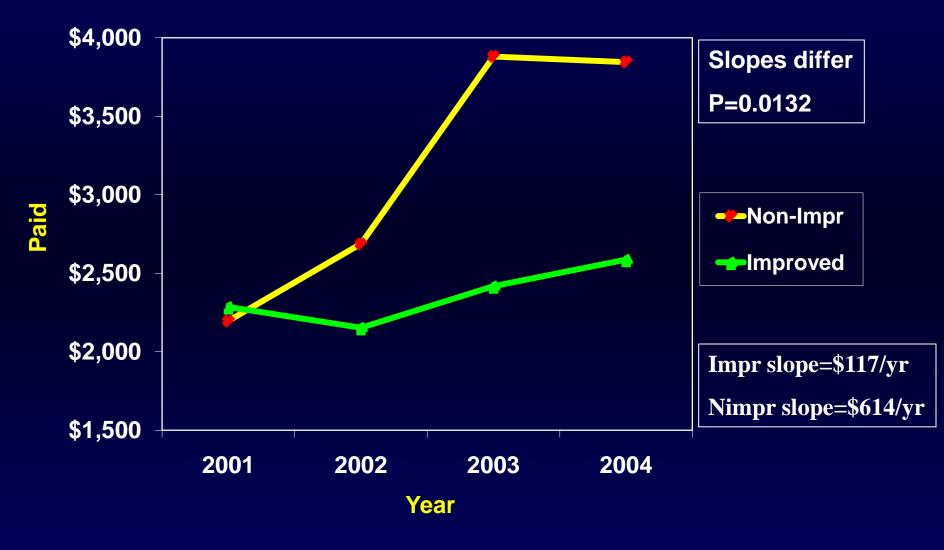
Overall: Cost per risk reduced: \$215; Cost per risk avoided: \$304 Actives: Cost per risk reduced: \$231; Cost per risk avoided: \$320 Retirees<65: Cost per risk reduced: \$192; Cost per risk avoided: \$621 Retirees>65: Cost per risk reduced: \$214; Cost per risk avoided: \$264

Updated from Edington, AJHP. 15(5):341-349, 2001.



# Zero Trends follow "Don't Get Worse" and "Help the Healthy People **Stay Healthy**"

#### Medical and Drug Cost (Paid)\*



Improved=Same or lowered risks



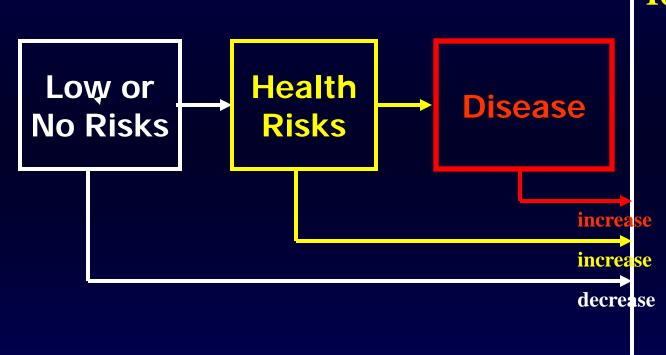
## Learnings for Section II

#### **Excess Costs are related to Excess Risks**

## **Costs follow Engagement and Risks**

**Controlling Risks leads to Zero Trend** 

## The Economics of Total Population Engagement and Total Value of Health



**Total Value of Health Medical/Hospital** Drug Absence Disability Worker's Comp **Effective on Job Recruitment** Retention Morale

# Where does cost turn into an investment?

#### Great 25 years of work: the Business Case is solid, but not yet perfect. Congratulations!

# However, nothing has changed in the population

No more people doing physical actvity No fewer people weighing less No fewer people with diabetes

# Health Management I.Q. Quiz

If you continue to wait for defects and then try to fix the defects: Will you ever solve the problems?

Is it better to keep a good customer or find a new one?

If you put a changed person back into the same environment: Will the change be sustainable?

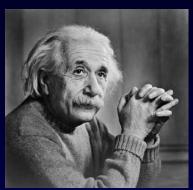
Is the action you reward, the action that is sustained?

The world we have made as a result of the

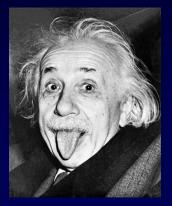
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## Section III

The Evidence-Based Solution: Zero Trends

# Integrate Health into the Environment and the Culture

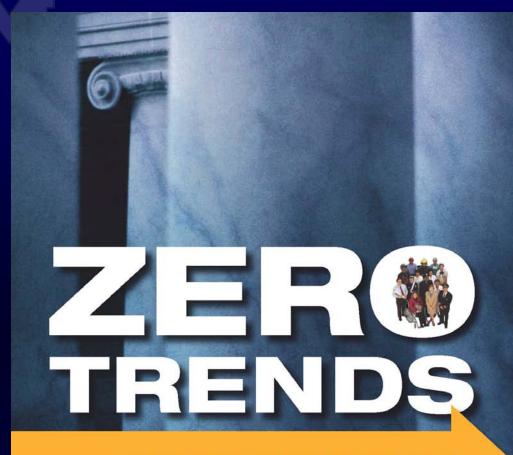
(...in Quality terms this strategy translates into "...fix the systems that lead to the defects" ...)

#### **Business Problem**

Currently, most costs associated with workplace and workforce performance are growing at an unsustainable rate

How are we going to be successful in this increasingly competitive world without a healthy and high performing workplace and workforce?

How can we turn costs into an investment?



Health as a Serious Economic Strategy

Dee W. Edington, PhD, Health Management Research Center, University of Michigan

#### Vision for Zero Trends

Zero Trends was written to be a transformational approach to the way organizations ensure a continuous healthy and high performing workplace and workforce

#### Based upon 175 Research Publications

#### **Integrate Health into Core Business**



**Gains for The Organization 1. Health Status 2. Life Expectancy 3. Disease Care Costs 4. Health Care Costs 5.** Productivity a. Absence **b.** Disability c. Worker's Compensation d. Presenteeism e. Quality Multiplier 6. Recruitment/Retention 7. Company Visibility 8. Social Responsibility

# **Senior Leadership**



**Create the Vision** 

# Commitment to healthy culture Connect vision to business strategy Engage all leadership in vision

"Establish the value of a healthy and high performing organization and workplace as a world-wide competitive advantage"

#### **Senior Leadership Key Learnings**



 Commit to the vision and have the courage to see it through

- Connect & align the vision to business strategy
- Provide resources & ongoing support to realize the vision

 Role model & cheerlead along the way to success

# **Operations Leadership**

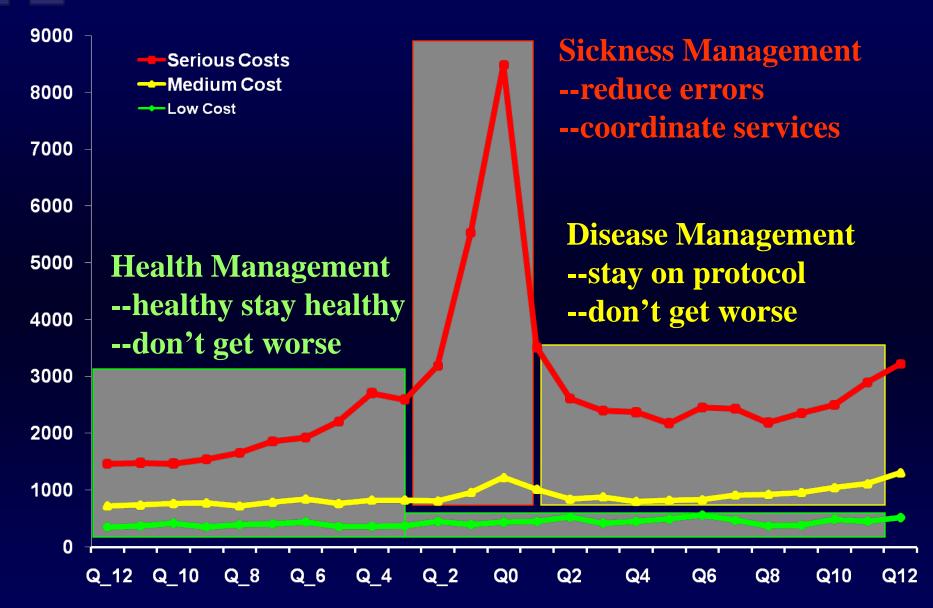


#### Align Workplace with the Vision

Brand health management strategies
Integrate policies into health culture
Engage everyone

"You can't put a changed person back into the same environment and expect the change to hold"

### **Population Health Management Strategy**



Where is the economic strategy?

University of Michigan Health Management Research Center Copyright 2009

## **Operational Leadership Key Learnings**



- Own and manage the strategy
- Integrate & align internal and external resources
- Stand & communicate the vision
- ✓ Engage everyone!

### **Promote Self Leadership**



**Create Winners** 

Help employees not get worse
Help healthy people stay healthy
Provide improvement and maintenance strategies

"Create winners, one step at a time and the first step is don't get worse'

## Self-Leadership: Key Learnings



- Create and structure an engaging experience for all employees across the health spectrum that includes family and community
- Programs designed to promote selfleadership and resilience
- Monitor and adjust approach and structure as necessary to achieve desired outcomes

## **Recognize Positive Actions**



#### **Reinforce the Culture of Health**

Reward champions
Set incentives for healthy choices
Reinforce at every touch point
"What is rewarded is what is sustained"

#### **Recognition Key Learnings**



✓ Drive engagement

 Recognize Champions – support the behavior you desire

 Provide at least one good choice for everyone – including the low risk

 Reinforce everyone for making good choices & sustaining participation

## **Quality Assurance**



#### **Outcomes Drive the Strategies**

# Integrate all resources Measure outcomes

Make it sustainable

"Metrics to measure progress towards the vision, culture, self-leaders, actions, economic outcomes"

#### **Business Case**

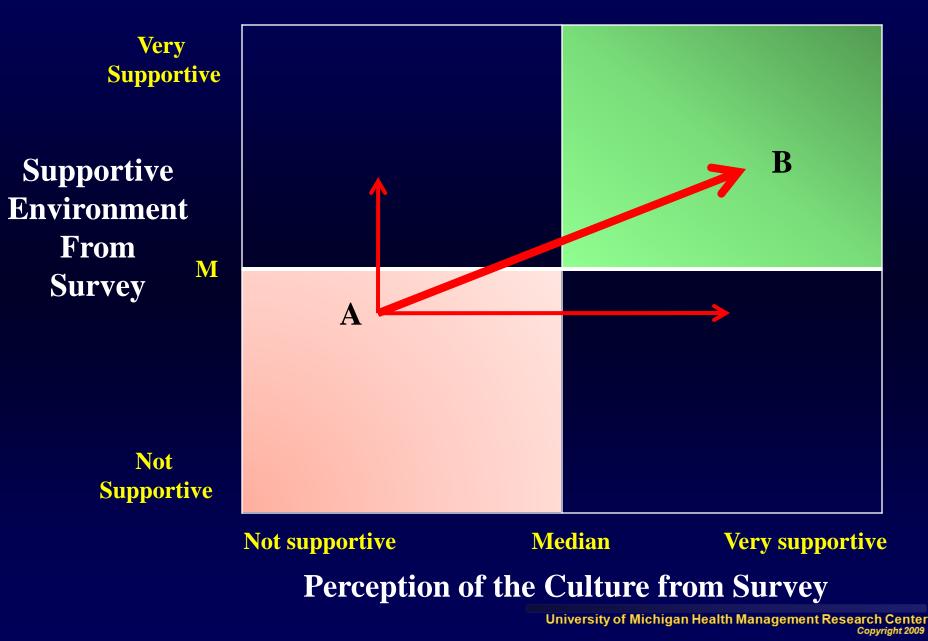
## Indicators of Sustainability

- 1. Company Engagement
- 2. Individual Engagement
- 3. Environmental Support
- 4. Perception of the Culture

## **Transform to Zero Trends** Which level is right for you?

		Senior Leadership	Operational Leadership	Self- Leadership	Recognize Positive Actions	Quality Assurance
1	Champion	Vision from Leaders	Healthy System & Culture	Everyone a Self- Leader	Recognize Positive Actions	Progress in All Areas
	Comprehensive	Speech from Leader	Reduction in Risks	Reduce Health Risks	Reward Achievement	Change in Risk & Sick Costs
	Traditional	Inform Leader	Programs Targeting Risks	Health Risk Awareness	Reward Enrollment	Change in Risks
	Do Nothing	Do Nothing	Do Nothing	Do Nothing	Do Nothing	Do Nothing

#### **Supportive Environment and Culture**



**Engagement of Individuals** (employees and spouses) **Health Risk Appraisal Biometrics Screening and Counseling Contact a Health Advocate Two Other Activities** 

#### **Measurement Scorecard**

Percent Engagement:85% to 95%HRA + Screening/counseling + Coaching + Two other sessions

Percent Low-Risk: Percent of Total Eligible 75% to 85%

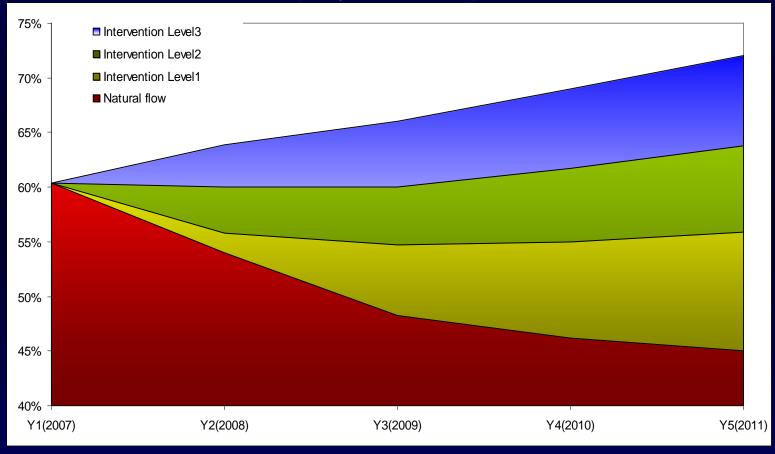
#### **Proof of Concept**

Change in Risk Levels beats the Natural Flow Change in Cost Levels beats the Natural Flow Year over Year Trends Approach Zero Percent Improved/no change Separate from Not Improved

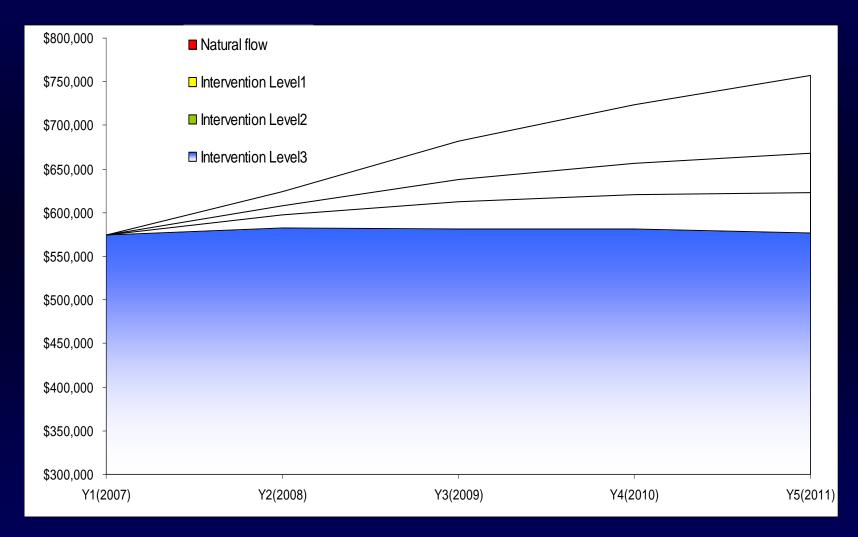
## Economic Outcomes Zero Trends

#### Low Risk Percentage following Each Strategy

#### Unit: % of Low-risk employees in Population



#### **Projected Total Healthcare Costs & Benefit for Active Employees (x,000)**



#### **Quality Assurance Key Learnings**



- Integrate and leverage data to support decision making throughout life of program
- Evaluation Framework that guides the assessment of relationships among the context, mechanisms, and outcomes of the program

 Key actionable metrics and company index score for each pillar

#### The Challenge

**Expand the Health Status Strategy** 

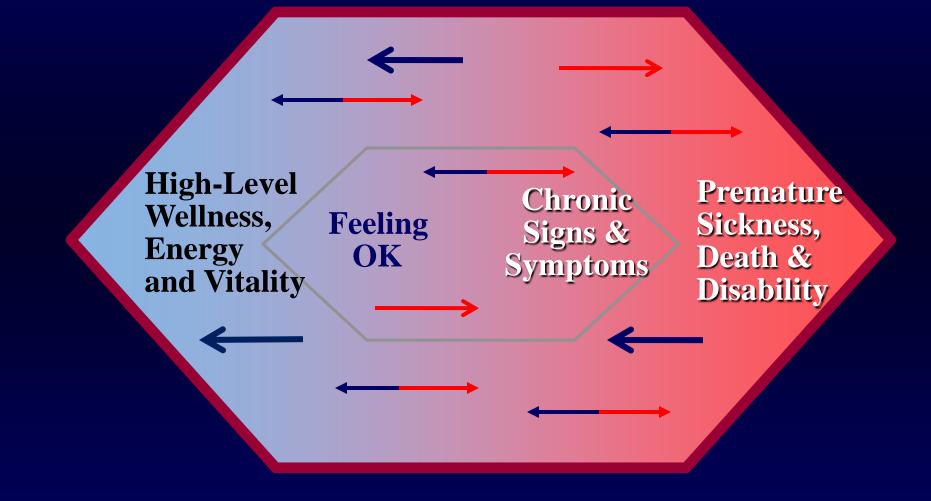
from a singular focus on Sickness and Precursors to Disease

to include a focus on Wellness and Precursors to Health

(from a 97 to 3 resource allocation ratio to a 80 to 20 ratio)



#### Lifestyle Scale for Individuals and Populations: Self-Leaders



Edington. Corporate Fitness and Recreation. 2:44, 1983, Modified 2009

#### **Sound Bites**

- 1. The "Do Nothing" strategy is unsustainable.
- 2. Refocus the definition of health from "Absence of Disease to High Level Vitality."
- 3. "Total Population Management" is the effective healthcare strategy and to capture the "Total Value of Health."
- 4. The business case for Health Management indicates that the critical strategy is to "Keep the Healthy People Healthy" ("keep the low-risk people low-risk").
- 5. The first step is, "Don't Get Worse" and then "Let's create Winners, One Step at a Time."

#### Implications for Public Policy What can Americans Do?



Provide incentives for companies to improve the health component of their products





Provide incentives for companies and communities to move to towards healthy cultures



Form coalitions of stakeholders to create a community culture of health Employers



Install the five fundamental pillars of health management to move to a champion company



Stop getting worse as a first step to becoming a self-leader

## Thank you for your attention.

Please contact us if you have any questions.

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Website: www.hmrc.umich.edu

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