

A group of business professionals in a meeting, looking at a tablet and holding coffee cups.

# Think again! Everyone doesn't think the Same

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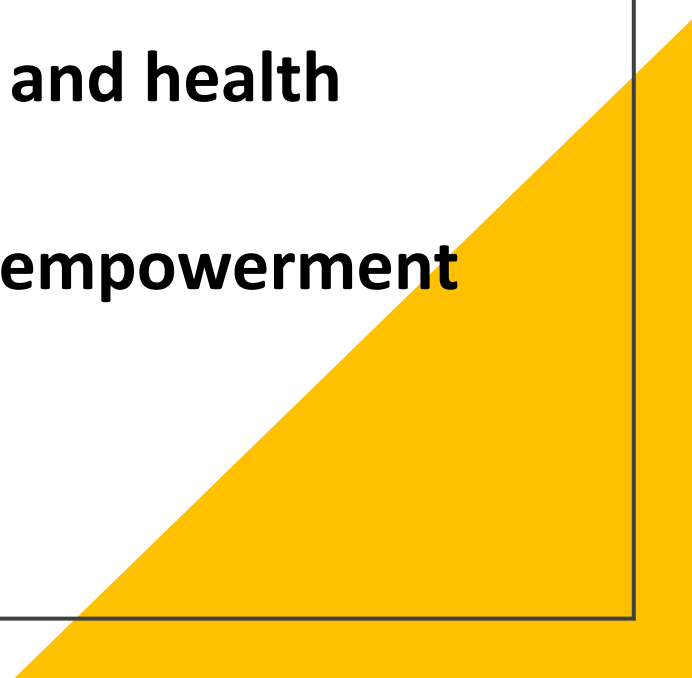
Virginia Commonwealth University

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# Disclosures

- VCU Health Anesthesiology Critical Care Medicine
- South Shore Hospital –Critical Care Medicine
- Consultant
- No Industry Funding
- There will be no discussion of off label medication use

# Objectives

- **1. Review the historical strategies to reduce health care disparities and improve outcomes**
  - **2. Discuss the role of biases on decision making and health care outcomes**
  - **3. Explain how patient health care literacy and empowerment can reduce and bad outcomes**
  - **4. Discuss solutions which can decrease SSE**
- 
- A yellow triangular graphic is located in the bottom right corner of the slide, pointing towards the top right.

Background

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Compton to MGH

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Family Background

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Health and Health Care Disparities

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Quality and Safety



# Health Care Disparities

## CDC

- “**Health disparities** are preventable differences in the burden of disease, injury, violence, or in opportunities to achieve optimal **health** experienced by socially disadvantaged racial, ethnic, and other population groups, and communities.”
- **Health Care Disparities**- Differences in outcomes related to the delivery of health care or prevention or deficiencies in care

- 2002 “**IOM Unequal Treatment**” Disparities in outcomes exist in minorities regardless of Socioeconomic level or insurance coverage”
- Disparities exist in many other settings- Gender, Disability, Orientation
- Multiple etiologies require multi-prong approach

# Disparities in Quality and Safety Events

## Strategies to decrease Health Care Disparities

ACCESS- not always  
about the absence  
of engagement

Cultural  
Competency/Health  
Care Worker  
Awareness

Diversity of  
Workforce

Linguistic  
Concordance

Advocacy

Biases

# Woman Dies in ER Lobby as 911 Refuses to Help

## June 13, 2007

### **Tapes show operators ignored pleas to send ambulance to L.A. hospital**

#### **Fury after woman dies in hospital lobby**

June 13, 2007

: NBC's Michael Okwu reports on a desperate 911 call made as a woman lay dying in a California hospital lobby.

**Associated Press** Updated: 10:43 a.m. ET  
June



“Edith Isabel Rodriguez, 43, died of a perforated bowel on May 9 at Martin Luther King Jr.-Harbor Hospital. Her death was ruled accidental by the Los Angeles County coroner’s office. Relatives said Rodriguez was bleeding from the mouth and writhing in pain for 45 minutes while she was at a hospital waiting area. Experts have said she could have survived had she been treated early enough.”

Disparities  
Quality and  
Safety

- How do we evaluate and does it matter ?

- ***Tale of last 90 minutes of woman's life Remembering Edith Rodriguez***
- ***BY CHARLES ORNSTEIN***





# Value Proposition

Diversity

Diversity Workforce and Training  
yields Cultural Competency

- Combining divergent random groups

Joseph Stiglitz-Gaussian Curve

The Phenomena of the Nobel  
Laureate Dinner

# Impact of Workforce Diversity

- Increasing the supply of minority physicians increases access to medical care (Komaromy 96')
- AAMC 13, 428 MD Degrees between 1974-75
  - Results- “almost twice the proportion of minority graduates as non-minorities were practicing in federally designated manpower shortage areas (11.6 vs.6.1%,  $p < 0.001$ )
- Black physicians practice in predominantly metropolitan areas (Rochleau 1978)
- Howard University School of Medicine alumni 55'-75'
  - 60% practice in large city , 32% in inner city

# Patient-Physician Racial Concordance and the Perceived Quality and Use of Health Care

- “Black respondents with black physicians were more likely than those with non-black physicians
  - Rated their physicians as **excellent**
    - (adjusted odds ratio [OR], 2.40; 95% confidence interval [CI], 1.55-3.72)
  - Report **receiving preventive care**
    - (adjusted OR, 1.74; 95% CI, 1.01-2.98) and all needed medical care (adjusted OR, 2.94; 95% CI, 1.10-7.87) during the previous year.
  - Hispanics with Hispanic physicians were more likely than those with non-Hispanic physicians **to be very satisfied** with their health care overall
    - (adjusted OR, 1.74; 95% CI, 1.01-2.99). Komaromy 99 Archives

## Student Body Racial and Ethnic Composition and Diversity-Related Outcomes in US Medical Schools, [Saha S, MD, MPH; Guiton, G et.al.JAMA. 2008;300\(10\):1135-1145.](#)

- Medical schools ask the question does Student Diversity matter?
  1. The educational benefits of a more diverse schools resulted **in improve preparedness of students to address a more diverse patient populations** (survey responses) overall
  2. **White students** within the Highest Quintile for Medical Schools Diversity were more likely to rate themselves as **highly prepared to care for minority populations** in the lower Diversity Quintile Schools
  3. Also, the White students (diversified schools) were more likely to have a strong attitude to **endorse equitable access to care.**
  4. URM minority medical students were more likely to **plan on serving underserved communities**

# Anatomy

**Health Inequities/ Health Care Disparities**

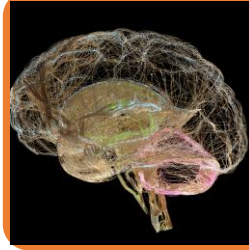
**Quality and Safety**

**Decision-making and Biases**

**Patient Empowerment**

**Health Care Literacy**

# What do biases have to do with Serious Safety Events ?



Jonathan Kahneman and Michael Tversky  
Concepts that help to frame Decision-making



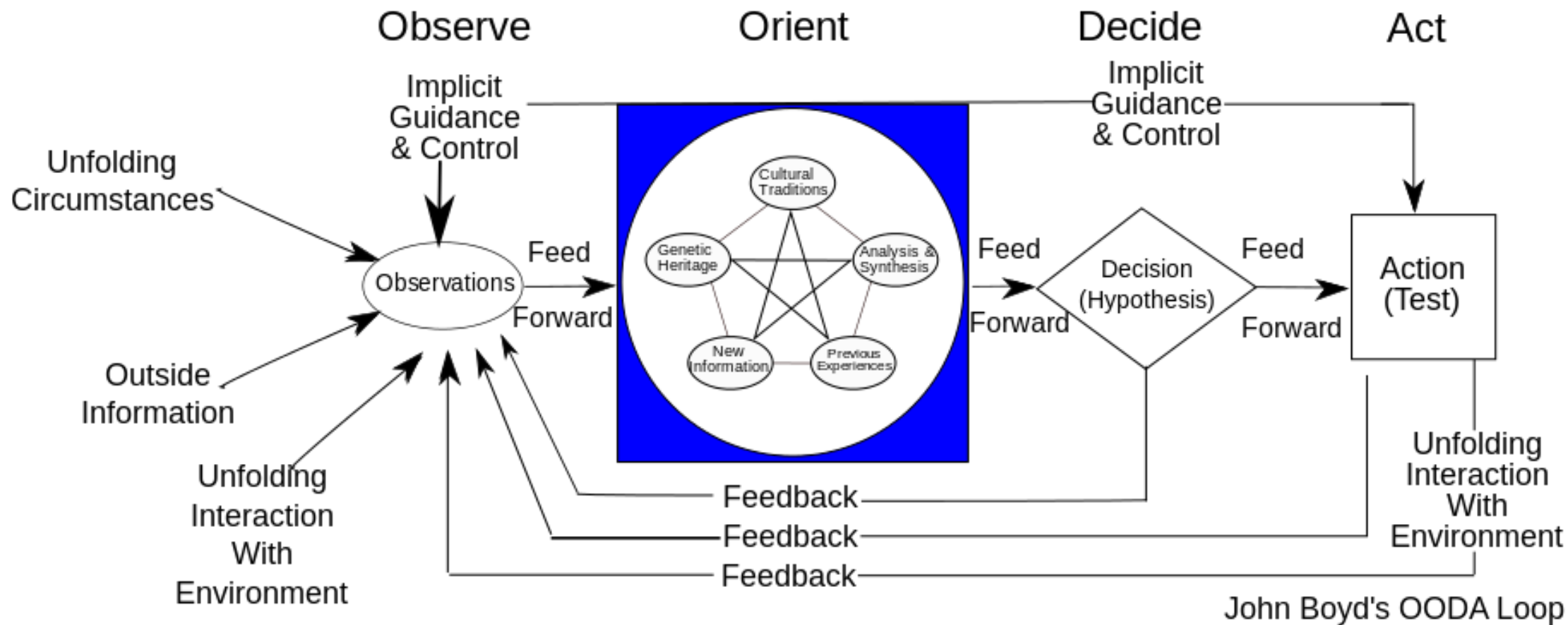
1. Affects your Perception and how you view people and situations



2. OODA Loop – Observation, Orientation, Decision Action  
OOADAR-Observation, Orientation, Decision, Response



3. Impacts your response or lack of response



# Bias

Physicians should understand biases and racial and ethnic discrimination historical roots, and implications for health disparities

Existing methods to discuss racial inequality in physician training

- **Health disparities:** awareness over critical examination of disparity origin from social, historic, and economic reasons
- **Cultural Competency:** often mobilize stereotypes of People of color in efforts to cite behavioral choices as likely causes of health disparities
- **Implicit bias:** encourage increased recognition of personal prejudices but fail to consider structural inequities



# Thinking Fast and Slow Health Care Disparities

- Distinguishing between unconscious bias and decision making
- Cultural
- Familiarity
- Learned behavior
- Heightened Vigilance
- Choice Architect-  
Designing systems to combat HCD
- Incentives
- Developing a self-preference veer right  
Negative or Positive reinforcement
- Habits

# Patient Safety Gaps

## HCW Decision Making influences by Biases

### Examples

Chest Pain –ED evaluation of women

Hispanic male with pain from long bone fractures

Number of AA receiving heart transplants

The number of males receiving leg amputation (limb salvage vascular bypass )

- Implicit Bias
- Recency bias
- Confirmation Bias
- Availability Bias
- System 1 vs System 2 thinking
- Altered SUNK COST Bias
- Nudges

# Biases and the Patient- Physician Relationship

- Room full of people
- Eye Contact
- Proximity Factor
- Untouchable
- **Affinity Quotient**



# SSE Drill down

- **Systematic analysis of cases and contributing factors, adapted from (e6)**

Contributing factor	Explanation
Patient factors	Illness; social, physical, or psychological conditions; relationship between patient and outpatient practice/hospital; language; articulateness; personality
Task factors	How the process is structured; are protocols/standards available?
Individual (staff) factors	Knowledge, skills, education/training, stress levels, health, motivation
Team factors	Verbal and written communication, team structure, supervision, seeking help
Work/environment factors	Staffing levels, staff qualifications, work stress, design, availability and servicing of equipment and devices, environmental conditions, noise, distractions
Organizational and management factors	Resources, restrictions, structure of practice (single-handed or group practice) or structure of hospital, existence of and handling of rules, regulations, safety culture, and priorities
Institutional context	Financial situation/funding of the organization, requirements imposed by the liability insurers, legal/statutory requirements (quality management)
Safety barriers/defenses	Existing, reliable, and known? Might the safety barriers have prevented the event?

# The Nature of Serious Safety Events and Decision making Solutions

- Anatomy of Serious safety events (SSE)
- Creations of Algorithms in response to SSE
- Safe Patterns of Care
- Check and Balances
- Habit forming exercises
- Culture of transparency and call out
- Stop the line

**Are we able to go to zero SSE?**

# Transparency

Medical Trainees challenges

Escalation of Care

Attending Accountability

Marry two ideals for success

# Moving ON to Solutions



# Health Care Literacy Empowerment





# For Want of a Dentist

Washington Post, Wednesday, February 28, 2007; Page B01



- Deamonte Driver, sitting next to his mother, Alyce,.
- Twelve-year-old Deamonte Driver died of a toothache Sunday.

# Health Disparities and Health Care Economics

- Inequality in Economics Mirrors Inequality in Health Care Disparities
  - Top 1% Americans control some 40% of the Nation Wealth
  - Disparity in wealth growth the evolution of Self interest over community interest
  - Higher unemployment, wage gradient,
  - Market Distortions-invisible hand, supply demand curve
  - Wealth dominated Political Agendas
- 
- Resource limitations yields default decision making (9million person uninsured make 75k or more)
  - Regulation-ACA
  - Mal-distribution of workforce/resources
  - Right persons on the Bus
  - Disincentives
  - Discretionary

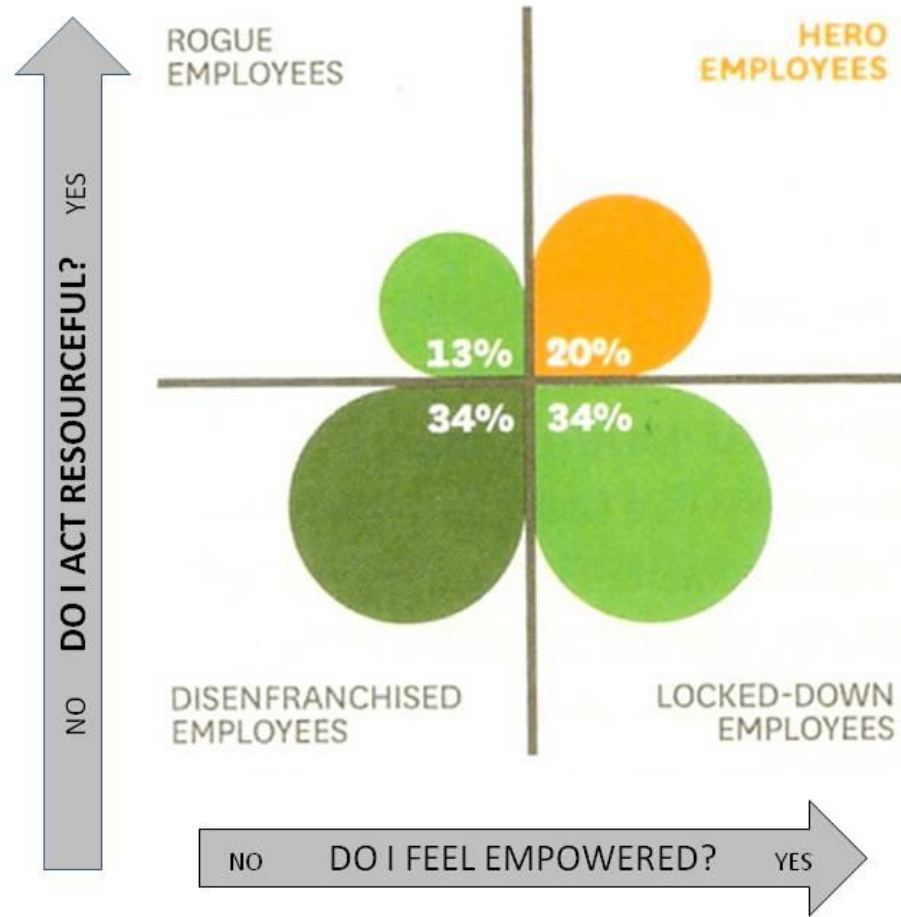
# Health and Health Care Literacy

- Definition
- Fundamental Knowledge
- Resourcefulness- Do you use resources and how do they benefit you?
  - Information
  - Experiences
  - New disruptive ideals-Taking info and utilizing it
    - Patient sawed off part of four finger tips on His Left Hand and goes to the local clinic
- Empowerment- Am I motivated , confident to solve problems engage in changing my circumstances to improve status or Outcome

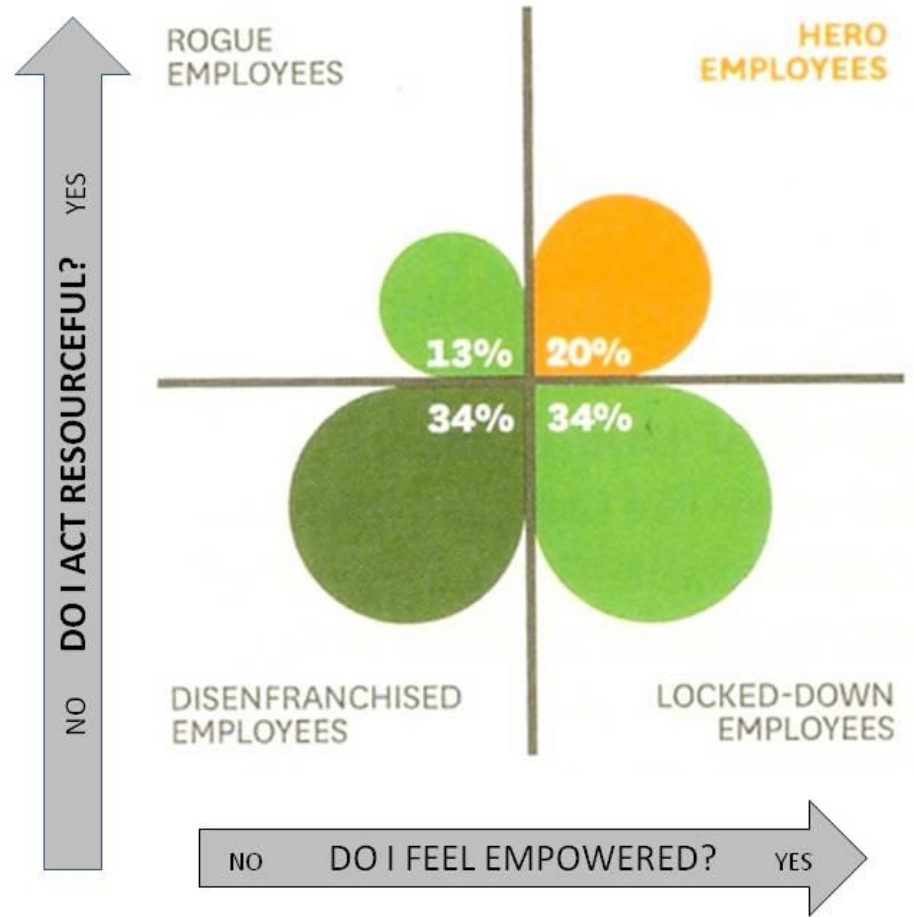
# Social Context Barriers to Health Care

- Poverty
  - Lack of insurance
  - Physical Barriers
  - Limited access to health care
  - Education
- 
- Language
  - Cultural competence
  - Poor provider attitudes: stereotyping, prejudice, bias

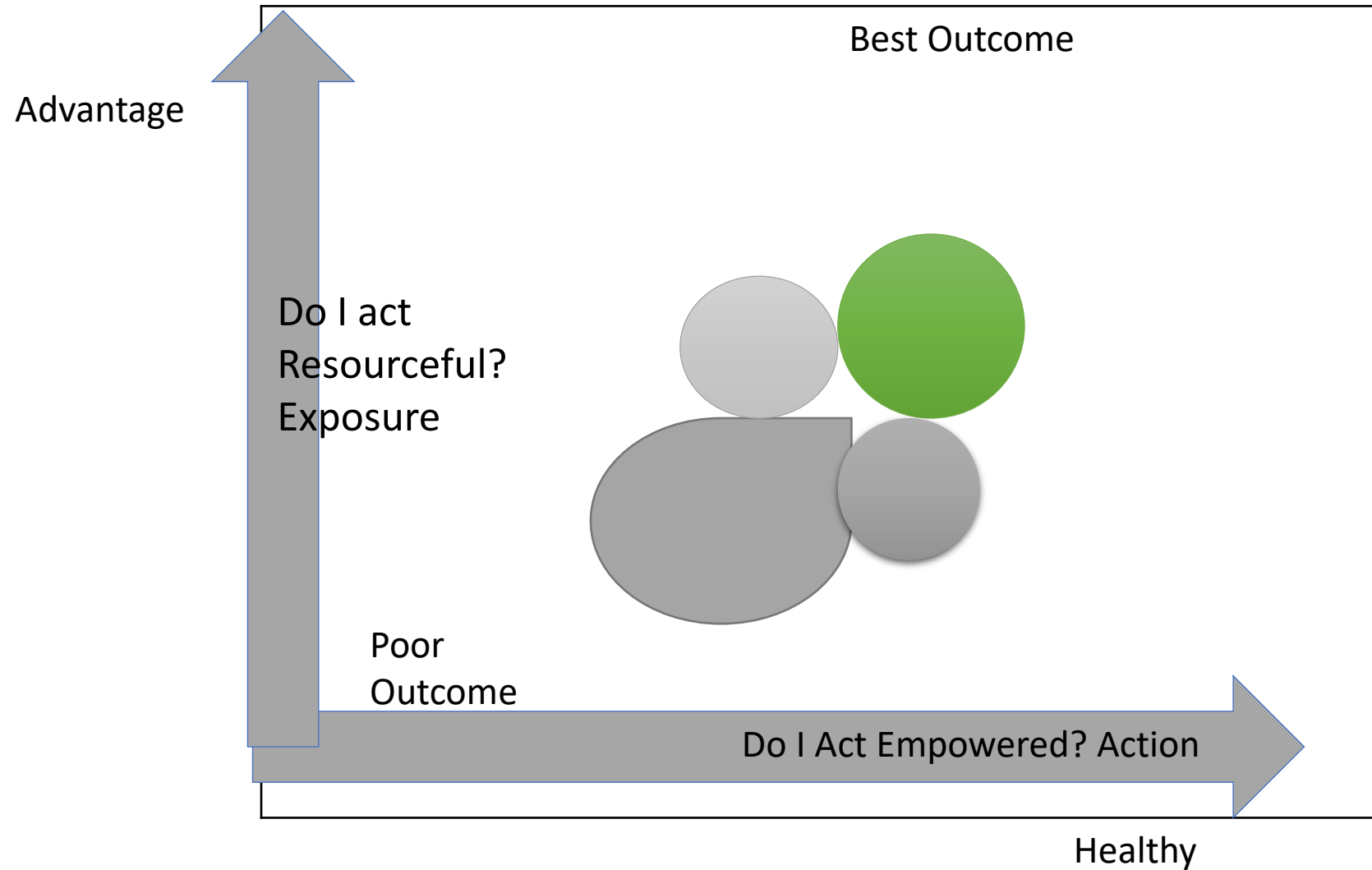
Harvard Business  
Review-*Empowered* J  
Bernoff ,T Schadler  
July-Aug 10'  
Survey of 5000  
Workers



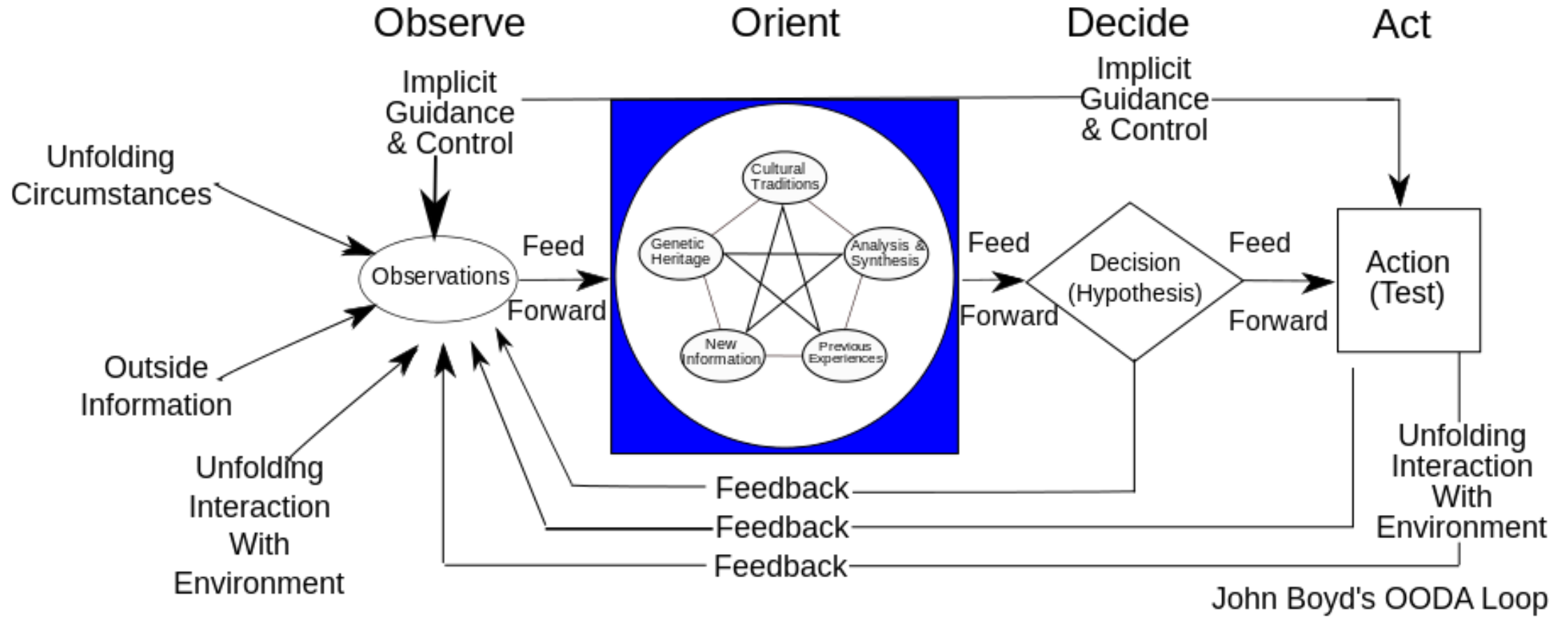
Patients



# Patients



# OODA





# Case Presentation

- 27 Y/o AA M with HTN on Lisinopril went to ED at 0630 in am to a hospital complaining “swollen tongue and difficulty speaking”.
- MD, Dx angioedema secondary to lisinopril, admitted to the ICU for close monitoring .
- Next 8 hrs. waxing waning course, drooling, eat popsicle
- 3-5pm increased tongue swelling, muffled speech,
- 7-8pm had difficulty breathing
- BIPAP applied, increased agitation midazolam administered, Decreased O2 saturation,
- Surgical resident and second year medical resident care for Maurice
- ,Anesthesiologist was called , couldn't intubate, resident attempt unsuccessful Crico-thyroidotomy, patient had cardiac arrest ROSC to OR
- ENT called in (at home) to do emergency trach, arrive in OR after he is resuscitated
- Trach performed
- Patient has irreversible Severe Anoxic Brain damage- Passed away

# Mother Response Lisa Parks

Thanks so much Lisa Parks for agreeing to participate in this part of the Program

Describe to us what you were feeling at the Family in which your son prognosis was discussed

# Questions

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# Quality



# Safety

- Falls
- Catheter related -Infections
- C Difficile Colitis
- Line infections
- Prolonged Mechanical Ventilation
- Aspiration Pneumonia

- Wrong Site Procedures
- Ventilator Disconnection
- Hyperkalemia Untreated
- Retained Foreign Body
- Unsupervised Trainee
- Impaired HCW
- Lack of equipment or resources