

Care Operating Systems of the Future: Optimizing Leadership, Technology & Systems to Enable & Empower the Workforce

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Every system is perfectly designed to get the results i gets – W. Edwards Deming

Consider This.





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Systems & Complexity

Socio-Technical Health Care System





Complex Adaptive System



Complex Adaptive Systems

General Systems Theory

Complex

Unknown Unknowns (we don't realize we don't know)

20

d)

Complexity

UNORDERED

Chaotic

Unknowables (inherent randomness)

Complicated

Known Unknowns

neoretical Approa

Svstem

ORDERED

DISORDER

Simple

Known Knowns

Our Industry's Greatest Strength..



Core Characteristics of a Complex Adaptive System

Adaptation: Components learn and evolve over time. (e.g shifting care to telemedicine during the pandemic)



Emergence: System-level behaviors arise from local interactions and adaptations (e.g., Emergency Dept hall beds).

Core Characteristics of a Complex Adaptive System

Diversity of Agents: Multiple independent actors (e.g., patients, clinicians, administrators) with different roles, goals, and behaviors.



Feedback loops: Actions can reinforce or dampen future behavior.



Core Characteristics of a Complex Adaptive System



Nonlinearity: Small changes can have disproportionately large effects.



Exceeding Human Capacity



Overreliance On Our People Being Adaptive & Resilient



Impact of
Poorly
DesignedWorkforce Stress
Insufficient Care & OutcomesSystemsFinancial Challenges

In a complex adaptive system, it's all about operations

By enabling continuous learning and adaptive re-design, Care Operating Systems help organizations embed <u>resilience and reliability</u> directly in clinical care It's about operations and doing what you say...

A Care Operating System is IHI's approach to enable organizations to walking the walk.

IHI CareOS Model for Reliability

A care operating system provides the structure and processes to optimize operational <u>workflows</u>, <u>technology</u>, and <u>data</u> to enable clinicians to provide effective, efficient and informed care in a complex adaptive system

Exceeding Human Capacity

The IHI CareOS Model Integrates, Connects & Organizes and protects

Organization

- Training/Education
- Staffing
- Incentives
- Policies

Technology/Tools

- Hardware
- Ai
- CDS
- Software
- Devices

External Disruptors

- Pandemics
- Blood shortages
- Medication shortages
- Staff shortages

Core Elements of a CareOS

1. An Engagement Program

that drives organizational learning, joy in work, change
 management and leadership development

2. An Integration Strategy

gets the most the out of technology investments while ensuring
 clinicians and leaders are enabled to deliver high-quality care

3. An Improvement Structure

that ensures critical collaboration occurs between Operations, Quality, Analytics, and IT/Informatics

Continual Proactive Improvement Capability for ongoing systems re-design to produce real time and large-scale sustainable improvement

Benefits of a Mature Operating System

Workforce – Restored joy in work, Engagement, Satisfaction

Outcomes – Improved quality, safety, equity, and experience

Value – Reduced cost, increased productivity, improved value on investments

IHI CareOS from theory...

to practice

Evolution of Improvement Thinking..

Our primary approach to improvement is focused on projects and priority organizational initiatives

In a complex adapative system, we need focus on both real-time issue identification and improvement and larger scale enterprise improvement

Example of <u>real-time</u> system re-design

- Identified and prevented
 harm
- Mitigated costs and poor pt exp.
- Scaled the improvement across the org
- Improved workforce engagement and satisfaction
- Improved culture

Example of Large-Scale System Re-Design

- Improved high impact patient outcome (mortality, readmit, LOS, costs)
- Improved value-based performance and revenue
- Community impact/reputational
- Improved patient satisfaction
- Improved culture

Patients and community

Engagement & Prioritizing

Learning and Adapting

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Insights Designed in Clinical Workflows

An Operationalized Safety Management System

CareOS Enterprise Results (18 hospitals)

Key Takeaways

- CareOS is not a Quality or IT initiative, it's about enabling optimal system performance (operations)
- 2. CareOS does not require specific technology. It's how you optimize and integrate the technology you already have
- 3. If you want an engaged workforce, you have to engage them.

Considerations

- How is Operations, IT/Digital, and Analytics involved in improvement (both real-time and enterprise)?
- 2. How is your organization formally engaging your workforce in continual learning and improvement?
- **3**. Are your teams getting the most out of the data and tech available?

Join us for an exclusive webinar

Chaos to Capability with Care Operating Systems

June 25, 1PM-2PM (UTC)

Join Dr. Don Berwick, Dr. Trish Henwood, and Josh Clark as they discuss how healthcare organizations can follow the lead of other highly reliable industries by committing to a care operating system approach that provides the critical infrastructure for: **Operational Resilience**; **Workforce Engagement**; **Technology ROI**; and **Sustainable System Redesign**.

Josh Clark IHI

Dr. Trish Henwood Jefferson Health

Thank you!

To learn more about IHI CareOS visit ihi.org

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