Healthspital 4.0+
A Paradigm Catapulting Thought Experimental Neosynthesis

World Future Society
Orlando, Florida
11–13 July 2014
A Proposed Model:

Re–visioning Community

Healthcare
Frank W. Maletz M.D.
Orthopaedic Surgeon

Kristin Maletz
Special Education Teacher

malfam5@aol.com
www.healthspital.org
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World Future Society Themes

*2010  Sustainability
*2011  Moving From Vision to Action
*2012  Dream, Design, Develop, Deliver
*2013  Exploring The Next Horizon

*2014 What if....

“Knowing is Not Enough...We Must Apply. Willing is Not Enough...We Must Do.”
–Goethe
World Health Organization

“A State of Complete Physical, Mental And Social Well-Being --- And Not Merely The Absence of --- Disease or Infirmity”
DIRTY LITTLE SECRETS

1. There is NO Healthcare Delivery Ecosystem in the US

2. There is NO Model/Exemplar to replicate in the world

3. There are a lot of dollars involved in the current NON-SYSTEM
QUINTESSENTIALS
- Patient Driven/Centered
- Provider Fulfillment
- Wellness Orientation
- Holarchy: Eco-Logical Principles
- Value Exponentiation
DEFAULTS

Quality

Performance Excellence

Safety

Personalized → Individualized

Accountable → Responsible
DEFAULTS

Continuum
Care/ Help/ Cure/ Hope
Advocacy
Cost Consciousness/
Effectiveness
PARADIGM SHIFT
H-Eco-System

Combine:
-- Medicine / Surgery
-- Research / Practice
-- Best Evidence Now (BEN)
-- Comparative Effectiveness Research
-- TPS / Lean
-- Enterprise 2.0 / Social Media Tools
-- IT
-- System Thinking / Prototyping
PARADIGM SHIFT

H-Eco-System

Combine:

-- Innovation

-- Best Practice:

IHI
Commonwealth Fund
Institutes of Medicine
NIH
Health Affairs

-- Intangible / Well-Being Scales

-- Alternative / Complementary Methods
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Ecosystem MATRIX

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Ecosystem

Unpredictable
Improvement
Or
Growth

Mediocrity
(at Best)

HIGH

LOW

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MATRIX

Ecosystem

HIGH

Unpredictable
Improvement
Or Growth

LOW

NON-System

Frustration
And Boredom

Mediocrity
(at Best)
MATRIX

Ecosystem

Exponential Growth
Predictable Trajectory
Thrivitality

Non-System

Frustration And Boredom
Mediocrity (at Best)

Unpredictable Improvement Or Growth

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Metaphors:

Quilt / Tapestry / Mosaic
Metaphors:

Jig Saw Puzzle
COVEY

BEGIN with

THE END

in MIND.....

1932–2012
PILLARS OF HEALTHSPITAL 4.0+

Cost Curve
Unsustainable
The BIG Five
VALUE = QUALITY Over Time COST

VALUE CHAIN

VALUE STREAM

VALUE PROPOSITION

VALUE ADD/ MULTIPLY/ EXPONENTIATE
FIRST PILLAR

F  FIT

A  APPROPRIATE

R  RIGHT
A BILL OF “RIGHTS”

RIGHT

- PATIENT
- PROVIDER
- DIAGNOSTICS/DIAGNOSIS
- POINT OF CARE
- AMOUNT OF INTERVENTION
- PRICE POINT
- INFORMATICS AND ANALYTICS
- TIMING
- GOALS AND EXPECTATIONS
- QUESTIONS
First Pillar

Literacy/ Education

Navigation/Tools

“Dumping” Laws

Consortia– Advice/Expert
First Pillar

- Literacy/Education
- Navigation/Tools
- “Dumping” Laws
- Consortia–Advice/Expert
Business Suggestion: Pillar One

DYNAMIC FUNNELIZATION

WITH

UNIVERSAL CAPTURE
PILLAR TWO

Waste  Fraud  Abuse

Duplication  Repetition

Superfluous  Unnecessary  Redundancy

Rehash

Rework

Variability/ Variation
Pillar Two

Issues/ Examples

- TPS/Lean
- Virginia Mason
- Literature
- Medical Errors/ Hand-Offs
- Loop Holes/ Chasms
- The Dartmouth Atlas (Wennberg/Fisher)

Over
Under

Treatment

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Business Suggestion: Pillar Two

h    Health

P    Passport/Portable/Pass

T    Transfer/Ticket/Template

C    Card/Chart

* THREE SECTION
PILLAR THREE
Chronic Care Management/Coordination/Integration

- Co-Morbid Conditions
- Complexity
- Multifactorial–Multisystem Interactions
- Monitoring
- Subspecialists vs. Generalists
PILLAR THREE
Special Issues / Examples
- Multiple Trauma
- Diabesity
- Cardiac & Vascular Disease
- Cancer
PILLAR THREE

- Information, Integrity and Access

- Fungible
- Secure
- Private
- Complete
- Useful

- Meaningful
- Non-Discriminatory
- Shared
- Searchable

- Protocols/ “Cookbook”/ Guidelines

- “Home is where the CHART is”

- PTC card
BUSINESS SUGGESTION: PILLAR THREE

EHR

and

True Medical Home
PILLAR FOUR

End of Life Interventions

✦ Fruitless
✦ Futile
✦ Comfort
✦ Natural

IRA BYOCK M.D.

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KATY BUTLER
Knocking on Heaven’s Door
PILLAR FOUR
Special Issues/ Examples
- Living Will– Dying wish list/bucket list
- Dying well/ Death as Life
- Expectations/ Preferences
- Cultural Awareness/ Sensitivity
- Open Dialogue
- Legacy Preparation
- Dash/Baton
PILLAR FOUR

Cease and Desist:

- Media Spin – “Death Panels”
- Rationing

Replace with:

- Legacy Design
- Death as Life
- Rational
BUSINESS SUGGESTION:
PILLAR FOUR

LEGACY PREPARATION

* Audio
* Video
* Collectibles
* Photo Archive
* Story Telling
* Memoir
* Lessons Learned
PILLAR FIVE

THE PRE’S
* Prevention
* Pre-Emptive
* Pre-Dict
* Pre-Pare
* Pre-Ference

THE PRO’S
* Promote
* Pro-Act
* Prognosticate
* Propensity
PILLAR FIVE
WellBeingularity
(The New Well-Fare State)

➡ Exercise
➡ Rest
➡ Stress Mitigation
➡ Nutrition
➡ Safe Participation/Behaviors
➡ Alternative/Complementary
➡ East/West Spirituality

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PILLAR FIVE
Special Considerations

- Freedom/ Personal Rights
- Tradition
- Policies/ Legislating Behaviors
- Holistic/ Holarchy vs. Hierarchy
- Comparative Effectiveness/ Proof/ Scientific Validity
PILLAR FIVE
BARRIERS

- Habit Patterns
- Education/ Literacy/ Training
- Tradition
- Legal / Regulatory
- Financial/ Disincentives
- Political
- Unconstructive/ Punitive/ Partial Programs
- Blame Game
BUSINESS SUGGESTION:
PILLAR FIVE

Virtual Vehicle Crash Testing and Training Simulator
New Vocabulary
Healthspeak

➡️ H–Eco–system
➡️ H–Infrastructure
➡️ Dynamic Funneling
➡️ Universal Capture
➡️ H–Book
➡️ H–Apps
➡️ PTC : 
P = Passport / Pass  
T = Transfer / Template / Ticket  
C = Card / Chart
➡️ Healthspital 4.0+
New Vocabulary
Healthspeak

- H-Eco-system
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- Healthspital 4.0+
New Vocabulary
Healthspeak

➡ Well-Fare
➡ Preventionist/ Prehabilitationalist
➡ EPHOT
➡ Medical Home—“Home is where the CHART is”

G  - Genetics/ Genomics/ Proteomics/ Metabolomics/ Microbiomic

R  - Robotics

AI  - Artificial Intelligence/ Computing/ Digitization

N  - Nanotechnology/ Miniaturization
HEALTHSPITAL 4.0+

- **Web 1.0**: Parking Spot/ Address
- **Web 2.0**: Search Engines/ Find Raw Data/ Unfiltered
- **Web 3.0**: Preference/ Connections/ Personalized
- **Web 4.0**: Expert System/ Best Expertise

SINGULARITY → WELL-BEINGULARITY
HAND-OUT

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WHAT IF’S......
The Patient of the Future
Discussion / Critique:

· Next Steps
· Actualization
· Prototyping
· Networking
· Dissemination
· Proof of Principle / Proof of Concept
· Feedback
“Nani Gigantum Humeris Insidentes”
12th Century: Bernard of Chartres
Paradigm Last

Paradigm Expound
Dream...
Design...
Develop...
Deliver...
Demonstrate!

malfam5@aol.com
www.healthspital.org

THANK YOU!

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METASCENDENT: $2.51 TRILLION PER YEAR TO REINVEST OUR FUTURE OF HEALTHCARE...

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