





TWO VITAL INDUSTRY EVENTS CO-LOCATED MAY 18-20, 2016 | GEORGE R. BROWN CONVENTION CENTER | HOUSTON, TEXAS

Change Readiness: How to Design Facilities in an Ever-Changing Health Policy

An ACHE Face-to-Face (Category I) Session – 1.5 Hours CEUs

Moderator: Upali Nanda, PhD Panelists: Bita Kash, PhD

Pamela Redden

Paul McCleary





LEARNING OBJECTIVES

- Drivers of Change and Developing Trends
- Beyond the "New and Shiny" in Trends What is Sustainable and Adaptable
- Relevance of Patient Perceptions to Facility Bottom Lines
- Aligning Owner, Architect and Contractor Interests
- Designing a Robust Framework for the Future
- Change-Readiness Versus Futuristic Thinking



INTRODUCTION

According to 2006 to 2013 Medicare claims data:

Healthcare access by Medicare beneficiaries

- Decreased by 17% for inpatient care
- Increased by 33% for outpatient care

A 2014 survey projects that over the next 3 years, construction in:

- Ambulatory Facility is projected to grow by 71%
- Medical Office Buildings by 53% (higher than inpatient tower construction projected at 41%).

There is a shift towards outpatient care governed by changing policies, payer models, population health focus and over-all, a new breed of "patient-consumer". In the midst of this wave of change we read many narratives on what the "future" holds. But the future cannot be seen. How can we design facilities that rely not on a crystal ball, but on a robust framework that allows us to withstand change?





architectural firm. Her research ranging from visual art and neuro-architecture, to safety, efficiency and hard ROI studies, has resulted in numerous publications and presentations, including peer reviewed journals such as Environment and Behavior, Journal of Emergency Medicine, Health Environments Research and Design Journal, and Intelligent Buildings Design Journal. Her research has also been featured in articles in the WSJ, and Harvard Business Journal. Her work focuses on human perception, health and wellbeing; and the measurable impact, and immeasurable value, of design for humans and organizations. Her doctoral work on "Sensthetics" has been published as a book available on Amazon.com. In 2015 Dr. Nanda was

Dr. Upali Nanda is the Vice President and Director of Research at HKS Inc., a global

Upali Nanda, PhD

recognized as the researcher, in the top 10 most influential people in Healthcare Design, by the Healthcare Design Magazine.

Dr. Nanda is also the Executive Director of the Center for Advanced Design Research and Evaluation, a 501c3 non-profit research organization committed to building research to drive innovation in practice. She serves on the advisory council of the Academy of Neuroscience for Architecture, the Academy of Architecture for Health Research Council, and the EDRA CORE program. She has a PhD from Texas A&M University, an M.A. from the National University of Singapore and a Bachelor in Architecture from the School of Planning and Architecture, India.

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Bita A. Kash, PhD, MBA, FACHE

Dr. Bita Kash has been the Director of the Center for Health Organization Transformation (CHOT) since April 2014. The CHOT is an industry-university cooperative research center (I/UCRC) funded by the National Science Foundation and health organizations to conduct research supporting major management, clinical, and information technology innovations in healthcare. As Director and PI of CHOT, Dr. Kash conducts research to support the implementation of evidence-based transformational strategies within healthcare organizations. Dr. Kash's research model relies on the knowledge and experience of healthcare leaders to guide academic research This cooperative model ensures that the research is both meaningful and applicable to the healthcare industry and provides immediate decision support for CHOT's Industry Members, such as Texas Children's Hospital, the American Society of Anesthesiologists, and Main Line Health. Dr. Kash's areas of research include organizational of research include organizational capacity for change and transformation, of innovative models

of care in primary care and surgical settings, and healthcare strategic planning and management. Her most recent research project, funded by the National Science Foundation's Center for Health Organization Transformation (CHOT), focused on perioperative care coordination and identification of sources of competitive advantage in primary care networks using resource based theory (RBT). Dr. Kash's research has been funded primarily by NSF, AHRQ, NIH, industry, and the Texas State Department of Health and Human Services. Dr. Kash is also the Editor of the Journal of Healthcare Management.

Bita A. Kash is an associate professor at Texas A&M University, Department of Health Policy and Management and Joint Associate Professor at the College of Medicine's Department of Internal Medicine. Dr. Kash received a Master's in Business Administration from The Citadel in Charleston, SC. Dr. Kash is also a fellow of the American College of Healthcare Executives (ACHE) and an active member of AcademyHealth, the Gerontological Society of America, and Academy of Management.

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Pamela H. Redden, MS, BSN, RN, EDAC

Pamela Redden currently serves as the Executive Director, Clinical Planning and Development, at the University of Texas at Austin, Dell Medical School. She is project leader for a 243,000 square foot, new construction outpatient center, where collaborations will reimagine the entire health care process, focusing on a human-first perspective. Clinical services will include integrated practice units, ambulatory surgery center, urgent care, and supporting services such as imaging, pharmacy, and lab.

With extensive clinical and administrative healthcare experience, including 18 years in clinical and facility planning for MD Anderson Cancer Center, she has had responsibility for operational/ activation planning, design support, staff transitions, activation/ occupancy, and post-occupancy settlement of facility projects.

Additional project experience includes the planning and activation of over 2 million sf of healthcare facilities, including new outpatient and inpatient facilities, redevelopment of existing clinical space, expansion of imaging and perioperative services, and expansion of the Children's Cancer Hospital at MD Anderson. She is a founding member and former Vice President of the Nursing Institute for Healthcare Design.

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Paul McCleary

Paul McCleary is Vice President – Business Development for MEDISTAR CORPORATION, a full-service real estate development company based in Houston, Texas and specializing in the design, development, financing, acquisition and construction of hospitals, post-acute care facilities, integrated medical plazas, medical office buildings, and related buildings for the healthcare and life sciences industries nationwide.

His career spans 29 years in the commercial design, development and construction industry, with an emphasis on business development, marketing and strategic planning. He works closely with MEDISTAR's Founder and CEO, Monzer Hourani, P.E., on a wide variety of special projects for Medistar and supports several aligned providers, including Bay Area Regional Medical Center (Webster, Texas), Bay Area Rehabilitation Hospital (Webster, Texas) and Cumberland Surgical Hospital (San Antonio, Texas).

Prior to joining MEDISTAR, Mr. McCleary served in marketing and business development capacities with consulting firm Mulhauser/McCleary Associates, program management firm Boyken International (now Hill International) and global construction company Skanska, at which he was a member of its National Healthcare Center of Excellence.

He is a graduate of the Plan II Liberal Arts Honors Program at The University of Texas at Austin and earned an MBA in Marketing and Management at The University of St. Thomas in Houston, Texas. He is a Life Member of the Ex-Students' Association of the University of Texas (Texas Exes), Life Member of the Houston Livestock Show & Rodeo and longstanding member of the American College of Healthcare Executives (ACHE).

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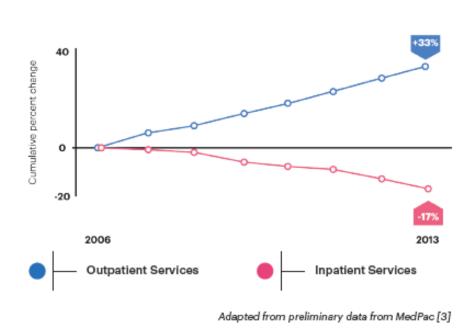
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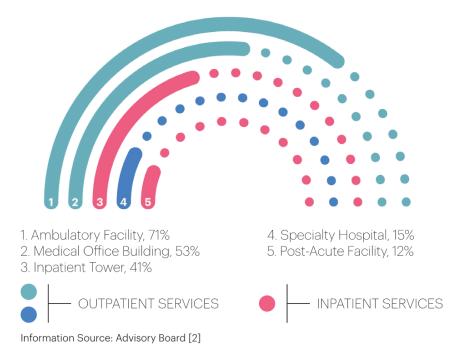




THE RISE OF OUTPATIENT SERVICES

GROWTH IN AMBULATORY CONSTRUCTION PROJECTS IN THE NEXT 3 YEARS







5 DRIVERS: DRIVING CHANGE



more access.

more accountability.

PATIENT

PATIENT chronic conditions, consumer expectations.



PROVIDER
physician shortage,
extender/team increase.



FIELD advanced diagnostics, precise & personalized medicine.



technology boom, big data and sophisticated construction

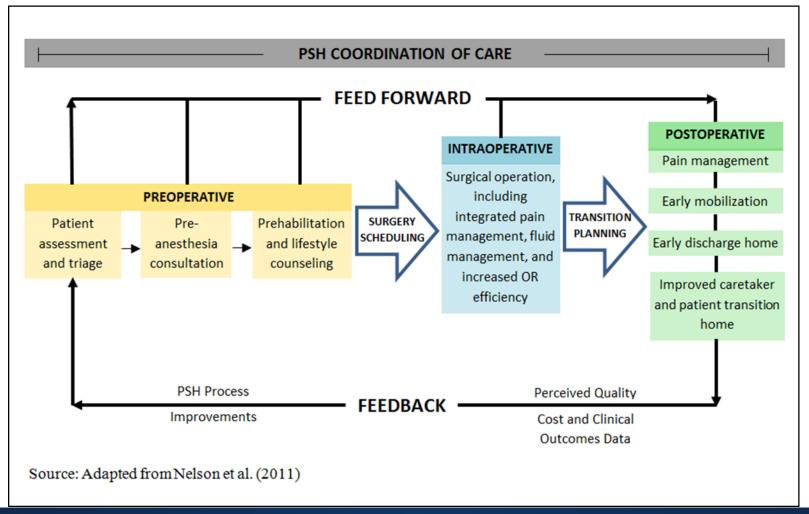


Q?

- What is the impact of changing health policy and reimbursement on outpatient?
- What are your reactions to these 5 drivers, which one do you think is the strongest driving force?

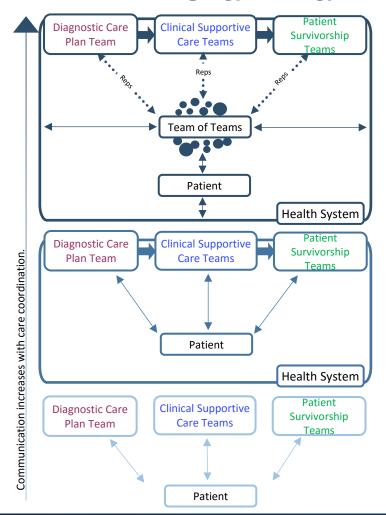


WE ARE REDESIGNING MODELS OF CARE





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Diagnostic Care Plan Team: Identifies optimal care plan Clinical Supportive Care Team: Multidisciplinary clinical care specialists and support services

Patient Survivorship Team: Provides emotional, social, and end-of-life support

Fully Coordinated Cancer Care

Macrosystem connected by a mesosystem (team of teams) that includes the patient. Communication within and among teams is potentially high.

Sequential Cancer Care

Clinical microsystems as part of one macrosystem in which each individual system communicates directly with the patient. There is forward-flow communication between clinical microsystems. Cross-communication among clinicians is likely to be sporadic at best.

Fragmented Cancer Care

Disjointed microsystems communicating directly with the patient, but infrequently with each other



CHANGES WE ARE SEEING IN TEXAS HEALTH SYSTEMS

- Patient as Partner
- Modularity
- Use of simulation in design
- Technology

HER

Virtual visits

 From Volume to Value: design for "team"

Culture change for the medical community



Q?

How do the trends of mobile/tele-, population health and coordinated care impact facility design?



TRENDS: RESPONDING TO CHANGE



mHealth/Telehealth

health at hand, remote access



Care Coordination

coordination between patients, providers and systems for efficient patient care and work flow



Population Health

community-based, whole person health with regional health goals



Retail Health

demand-focused, choicebased health for extensive and immediate reach



WHAT CURRENT TRENDS IN CLINICS DO PHYSICIANS FIND SUSTAINABLE?

	Trendy			Sustainable		
	Not a huge trend 1	2	Every one talks about it	A passing trend	2	Wave of the future
Concierge Medicine	26%	48%	26%	36%	46%	18%
Telemedicine	19%	47%	34%	14%	51%	35%
Retail Clinics	19%	56%	25%	32%	49%	19%
Coordinated Managed Care	10%	51%	39%	19%	52%	29%
Population Health through Primary Care	21%	43%	36%	21%	54%	25%

Telemedicine is considered the most sustainable trend, followed by coordinated care and population health

DRIVERS OF CHANGE IN HEALTHCARE

- Regulatory Environment
- Technology / Innovation
- Financial Incentives / Reimbursement "Carrots and Sticks"

Designing for Change:

Predicting "What's Next?" and "Why?"



"The only thing that is constant is change."

Heraclitus (c. 535 – 475 BCE)

Q?

What are some generational differences between boomers and millennials that could impact location and design of clinics?







CLINIC 20XX SURVEY

328 RESPONSES

167

BABY BOOMERS

1946 - 1964

84 OLDER BOOMERS **83**DUNGER BOOMER

161

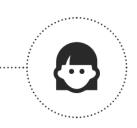
MILLENNIALS 1981 - 2000

97 OLDER MILLENNIALS 1981 - 1990 51 YOUNGER MILLENNIALS 1991 - 2000

13 MISSING

↑ THE SURVEY WAS SENT TO INDIVIDUALS WHO HAD VISITED AT LEAST ONE CLINIC FOR THE FIRST TIME WITHIN THE LAST SIX MONTHS.







51

FAMILY PRACTICE

49

INTERNAL MEDICINE

24 45 YEARS OLD OR YOUNGER **33**46 - 55 YEARS OLD

35 56 - 65 YEARS OLD 66 YEARS OR OLDER





PATIENT VS. CONSUMER

How would you describe yourself?



Patients First! The Clinic Patient is Not the Typical Consumer

EXPERIENCE VS. SERVICE

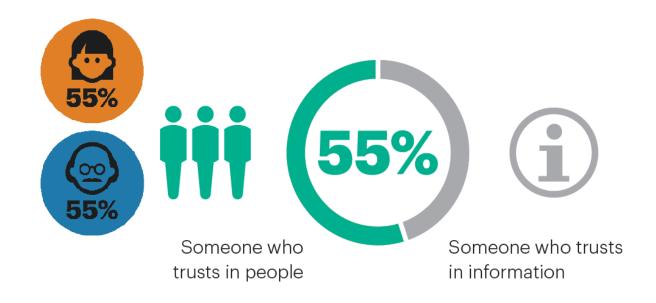
How would you describe yourself?



Experience is Important, Especially for Millennials

PEOPLE VS. INFORMATION

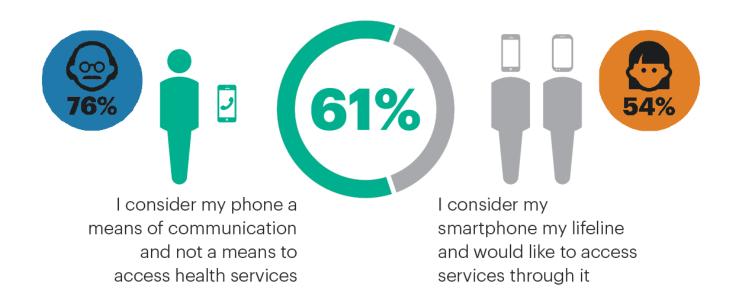
Experience vs. Service



People Trust People

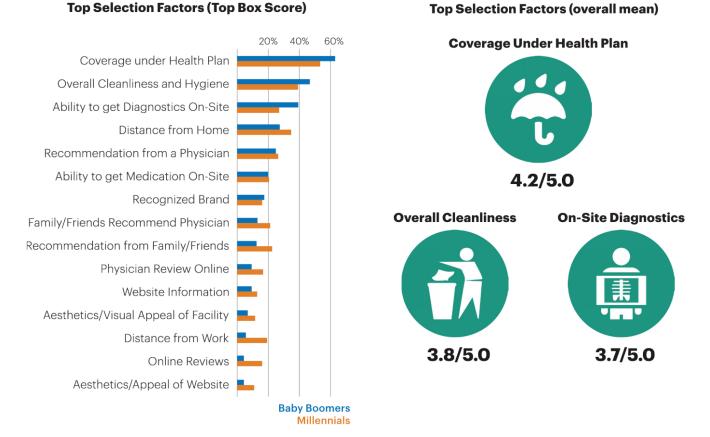
PEOPLE VS. PORTAL

How would you describe yourself?



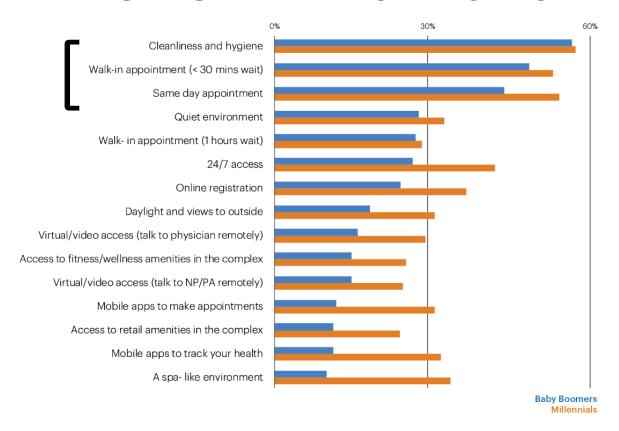
Times are Changing - Millennials See Their Phones as the Portal

WHAT MADE PATIENTS SELECT THEIR CLINIC?



Healthcare Coverage & Perception of Cleanliness are Important for Boomers and Millennials

WHAT FEATURES MAKE A CLINIC MORE APPEALING?



Boomers have more streamlined and pragmatic priorities millennials want more. Use of apps and a "spa-like" environment are much more preferred for millennials

HOW SATISFIED ARE PATIENTS WITH THEIR VISIT? WHAT PREDICTS THEIR SATISFACTION?



Overall, millennials are less satisfied than boomers. For both millennials and boomers, wait times and service quality predict satisfaction.

Boomers, overall, are more satisfied with their care than millennials

WHAT IS THE LIKELIHOOD OF GOING BACK TO THE CLINIC? WHAT PREDICTS THEIR RETURN?



Overall, millennials are less likely to return to the same clinic, compared to boomers For both millennials and boomers, overall satisfaction, follow-up care and Wi-Fi connection predict a return visit

"Good service, kind workers, cheap prices."

"Cleanliness . Accessibility. Welcoming environment."

"Cleanliness. Quickness. Niceness."

"Could have been cleaner; physical building itself looked used and abused."





"I'd like to feel like a priority"

FACILITY INNOVATIONS & CHANGE-READY PRINCIPLES

Traditional

Registration at the office with paperwork to fill out and wait.

Waiting room with TV, magazines, vending machines

Innovations

Self-registration/e-kiosk



- Concourse Waiting
- Healthy Cafes
- Self-Rooming



Change-Ready Facilities



Tech-ready contact points



- Pause areas with comfort & connectivity
- Change "waiting" to value added time via Education/ Engagement/ Patient Prep



FACILITY INNOVATIONS & **CHANGE-READY PRINCIPLES**







Traditional



Exam Room

Innovations



Family Room

- Consult/ Talking Rooms
- On-stage/Off-stage Access
- Embedded Video conferencing ability
- Mobile telehealth capabilities
- Elimination of Exam Beds
- Group consult/ community rooms

Change-Ready Facilities



Consult/ Care Space

- · High connectivity (reach to remote sites and support staff in clinic)
- Flexibility to incorporate different needs/functions (for different clinic types)
- Scalability (ability to address a group/cohort)

FACILITY INNOVATIONS & CHANGE-READY PRINCIPLES

Traditional

Discharge Area

Private Offices and Nurse Stations



nnovations

Check-out in consult/exam room using mobile technology

Workspaces and team stations set up with open offices and collaborative team stations



Change-Ready Facilities

Flexibility to allow different modes of discharge

Workspaces that have:

- High physical connectivity (proximity) between team members
- High digital connectivity that allows digital tracking and information access at a systemic level

3 DISTINCT CHARACTERISTICS

CONNECTIVITY



- Strategic location
- Easy access to site (physically + virtually)
- Connectivity between key spaces (physical + digital connectivity) that allow optimum workflow
- Connectivity between key team members (physical + digital)
- Connectivity between patient and provider (physical + digital)
- Easy access to information
- Connectivity to cloud, team and community | Wi-Fi access

FLEXIBILITY



- Ability to expand and contract based on varying needs
- Ability to rotate functionality
- Ability to accommodate rapidly changing technology

SENSE OF PLACE



- Materials, finishes and configurations that promote cleanliness + perception of cleanliness
- Configurations and ambience that support meaningful interactions between patient and provider
- Comfort (sensory)
- Quietness
- Visual appeal
- Brand

Q?

- What are the necessary steps to take to design for change (specific facility design strategies) in a rapidly evolving policy and technology environment?
- How can facilities aid a public health goal?
- How can we bring together owners, architects, contractors and public health experts towards healthier communities?



SUMMARY (OR IF PREFER, CONCLUSION)

- Designing operational processes must come prior to facility design (e.g through value stream mapping)
- Facilities should create a sense of "team" for care coordination, which includes the patient as a partner
- Change-ready facilities should provide connectivity, flexibility and an appealing, safe, clean, unique sense of place that fosters relationships and patient engagement



Questions?



On Behalf of





and



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Thank you for attending this session