



Kurt Salmon 

Healthcare Design Conference

Considerations for Comprehensive
Cancer Center Design

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HEALTHCARE DESIGN 
CONFERENCE 

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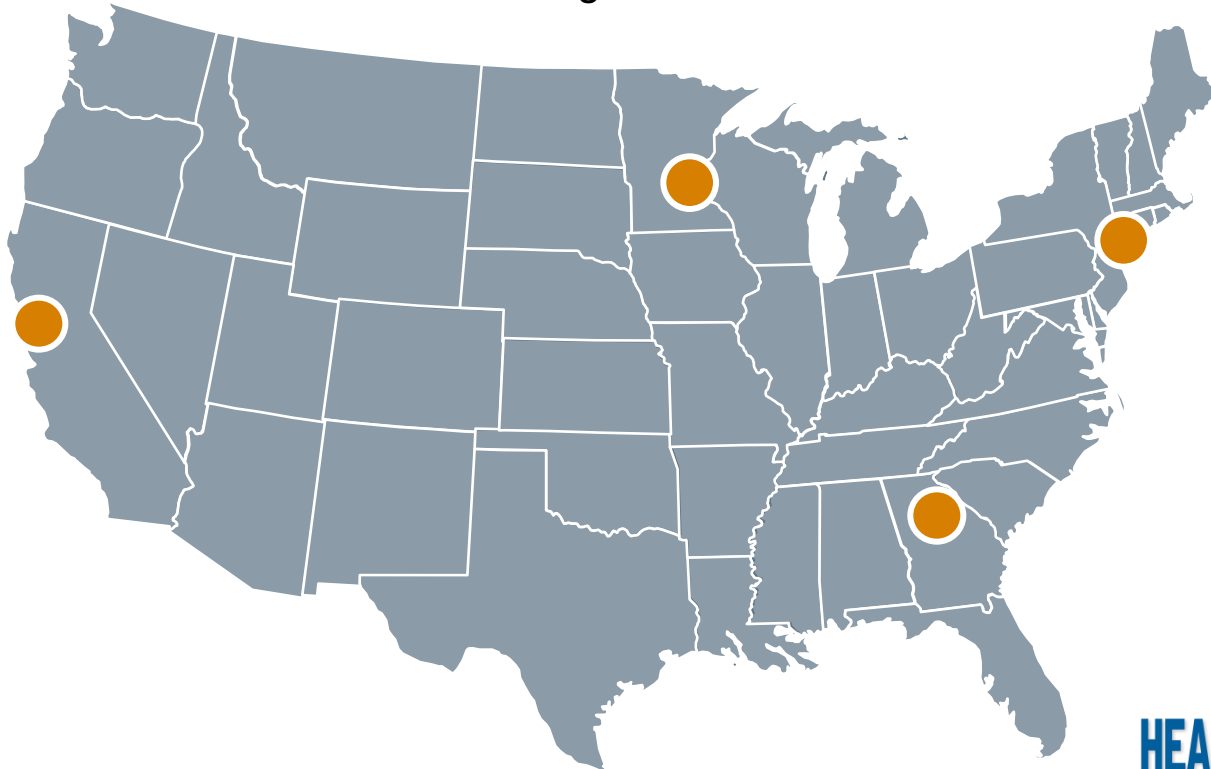
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Introductions: Kurt Salmon Healthcare Group

Kurt Salmon – the *premier* advisor to America’s hospitals and health systems

- ▶ Worked with virtually all of the US News Honor Roll Hospitals in the last 5 years
- ▶ Repeat clients represent 70+% of business at any given point
- ▶ 60+ professional staff in four offices throughout the U.S.



Introductions: Facilitators



Farzan Bharucha, Partner

- ▶ Pharmacist with 10 years of healthcare consulting experience
- ▶ Specialist in academic medicine, including governance, funds flow and enterprise strategy
- ▶ National thought leader on issues related value-creation in healthcare



Thomas Dixon, Manager

- ▶ 5+ years of strategy consulting experience
- ▶ Specialist in service line planning and capital prioritization
- ▶ Extensive experience in academic and community sectors

Introductions: Firm Cancer Planning Experience

Firm has significant cancer planning experience

- ▶ Experience spans settings – from exempt, comprehensive centers to community hospitals
- ▶ Cross functional experience – ranging from strategic planning to master planning

Selected Cancer Planning Engagements



Introduction: Today's Session

Five trends shaping the future of cancer care in the US

- ▶ Rising costs forcing new care models
- ▶ Cancer as a chronic condition
- ▶ Collapse of community oncology practices
- ▶ Funding vulnerability facing the research mission
- ▶ Blurring of organizational boundaries

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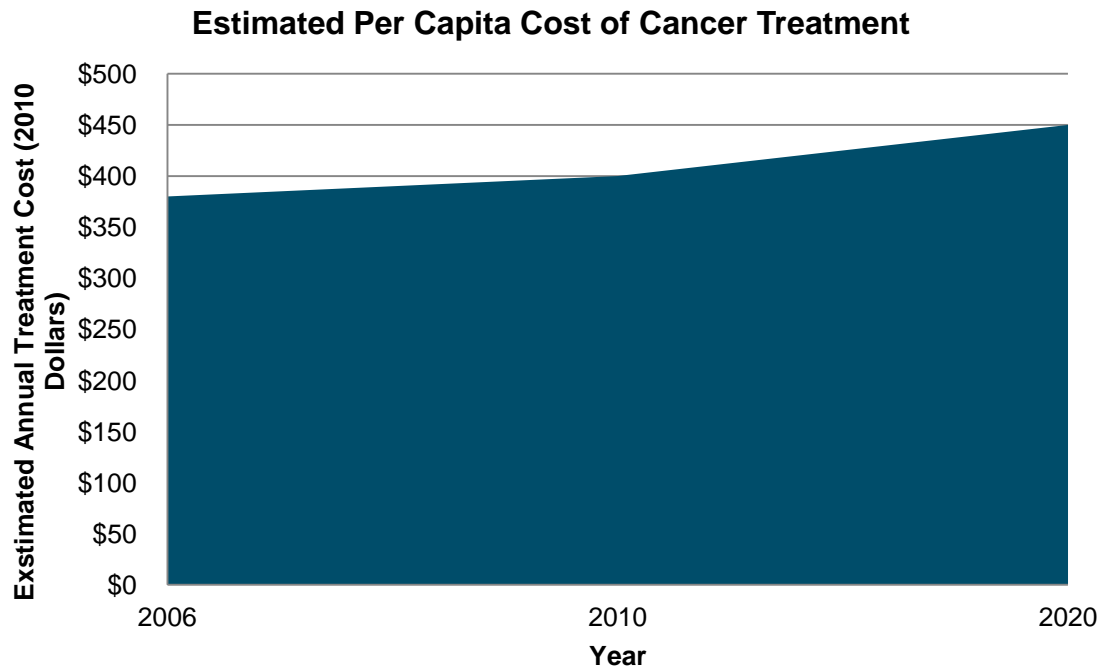
Considerations for Comprehensive Cancer Center Design

Rising Costs Forcing New Care Models

Rising Costs & New Care Models: Context

Costs of cancer care are exploding, driven by:

- ▶ Population aging
- ▶ Deteriorating public health (e.g., obesity)
- ▶ New drugs introduced often additive to existing regimens
- ▶ Real price increases for new therapies
- ▶ Increased life expectancy of those diagnosed with cancer

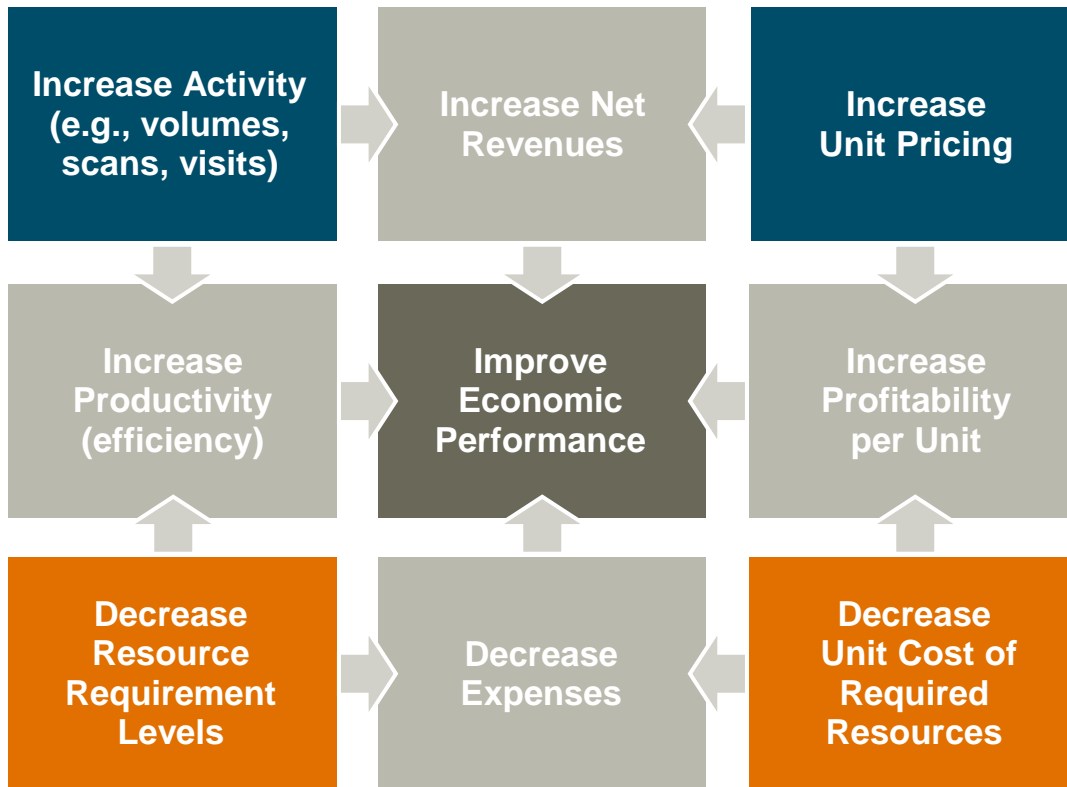


Source: National Institutes of Health, U.S. Bureau of Labor Statistics, U.S. Census Bureau and Kurt Salmon analysis

Rising Costs and New Care Models: Context

Consequently, payors are attempting to now reward value, not just volume

- ▶ Cancer care is no longer exempt from new models and reform








$$\text{Value (V)} = \frac{\text{Quality (Q)} * \text{Service (S)}}{\text{Cost (C)}}$$

- Current Critical Drivers of Economic Performance
- Future Critical Drivers of Economic Performance

Rising Costs & New Care Models: Context

In fact, new payment modes and cost containment strategies abound

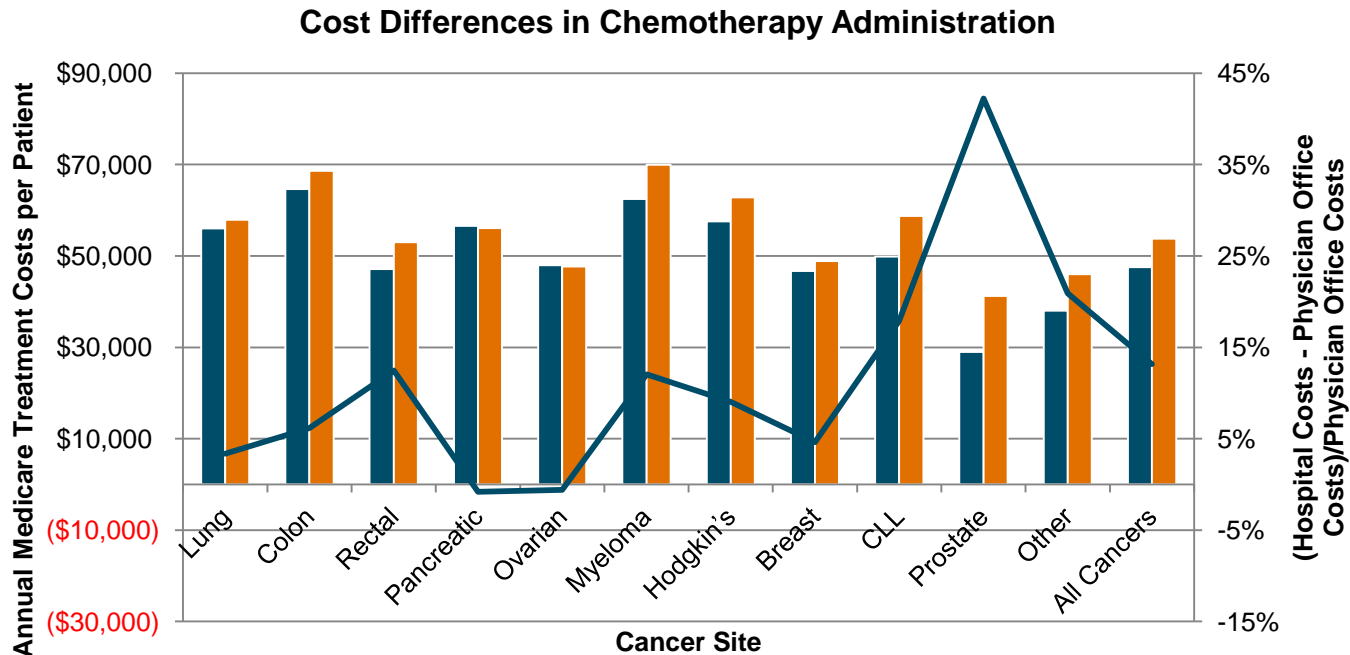
	Compendia Usage	Known ASP Usage	Other Notable Pilots
	✓	Implemented	<ul style="list-style-type: none"> ● Ongoing ACO, Medical Home demonstrations ● Recent 3rd party calls for episode-based payments for cancer
	✓	Piloting	<ul style="list-style-type: none"> ● Bundled payment pilot with 5 community oncology groups
	✓	Implemented	<ul style="list-style-type: none"> ● Several multi-player medical home pilots ● Survivorship planning program in partnership with UCLA and Genetech
	✓		<ul style="list-style-type: none"> ● ACO pilot with Norton Healthcare
	✓		<ul style="list-style-type: none"> ● Evidence-based pathways partnership w/ P4 in 4 states

Source: National Comprehensive Cancer Network, *Managed Care Mag*, drugchannels.net, *Indianapolis Business Journal*, healthcarepayernews.com, *Health Affairs*, insurers' websites and Kurt Salmon analysis

Rising Costs & New Care Models: CCC Positioning

Comprehensive cancer centers are expensive environments for routine care

- ▶ E.g., OP chemotherapy costs Medicare 13% more in hospitals than in physician offices
- ▶ GME reimbursement and exemptions can make AMC's even more expensive than community hospitals



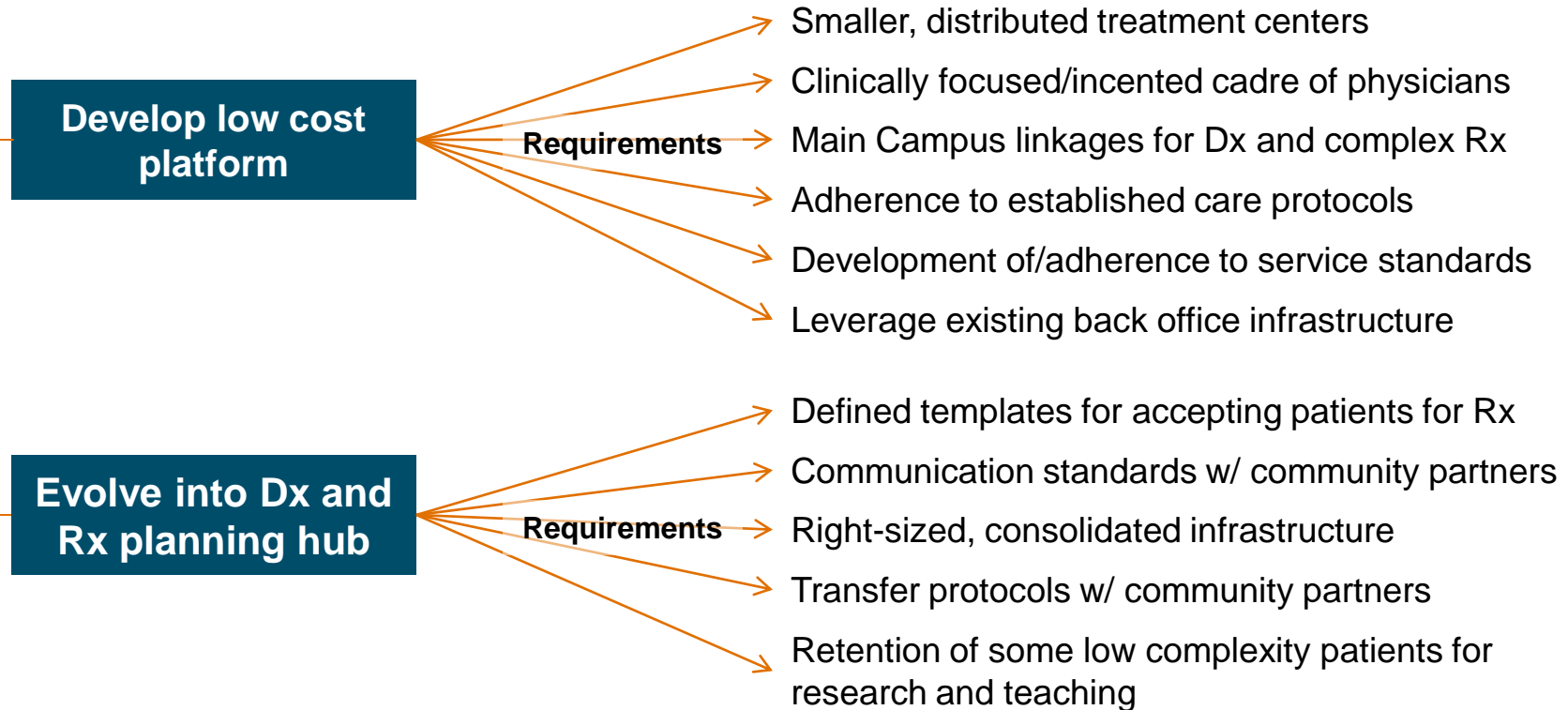
Source: Milliman and Kurt Salmon analysis

■ Physician Office Cohort
 ■ Hospital Cohort
 — Annual Hospital Cost Differential

Rising Costs & New Care Models: Implications

Comprehensive centers will likely have to participate in cost reduction/new models

- Bi-modal response possible from advanced, comprehensive centers

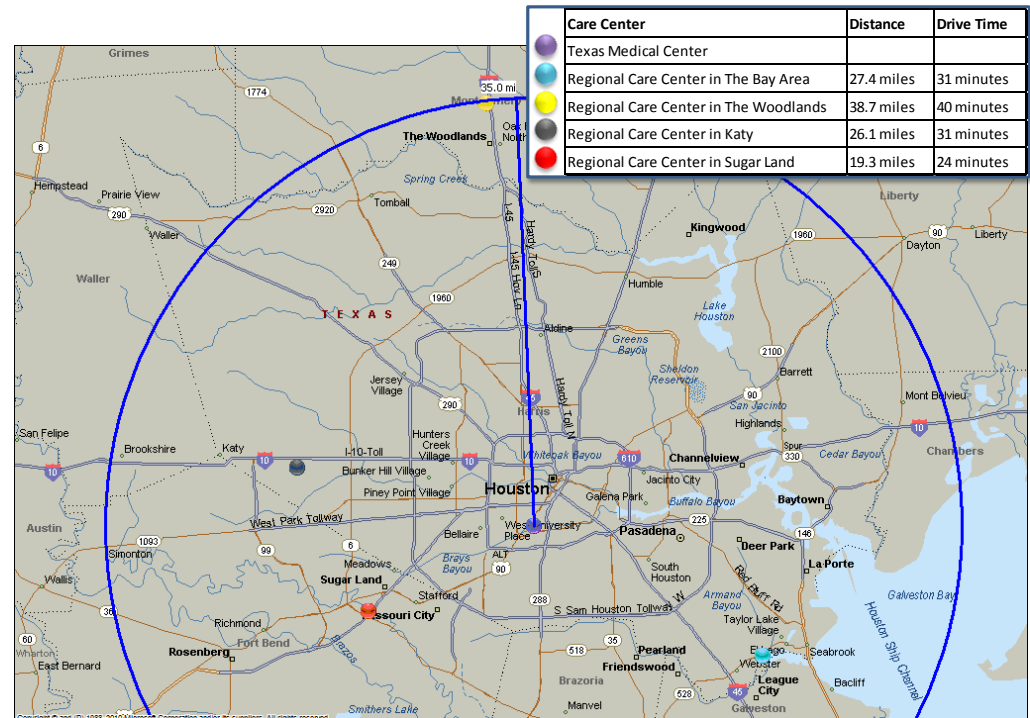


Rising Costs & New Care Models: Implications

Case Study: MD Anderson Regional Treatment Centers

- ▶ Services include
 - Medical & surgical oncology
 - Radiation oncology
 - Lab
 - Pharmacy

- ▶ Linkages to Main Campus for clinical trials & complex treatment



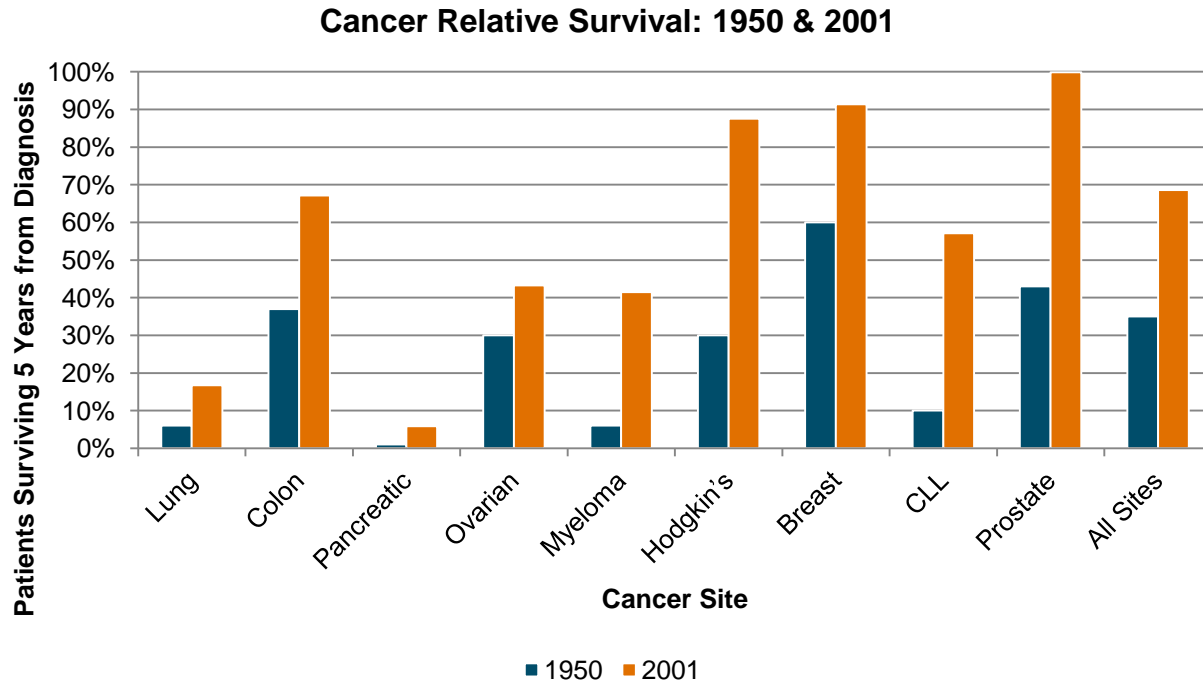
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Considerations for Comprehensive Cancer Center Design Cancer as a Chronic Condition

Chronic Cancer: Context

Survivorship of cancer is ballooning, driven by

- ▶ Earlier diagnosis/screening protocols
- ▶ Improved prognosis for patients with localized and regionalized tumors



Source: SEER Data, German Cancer Research Center and Kurt Salmon analysis

Chronic Cancer: Treatment Paradigm

In parallel, the cancer treatment paradigm is shifting, which will likely

- ▶ Further prolong survivorship
- ▶ Require increased (amount and frequency) resource (time, infrastructure) intensity in treatment

From

To

Evolution of Cancer Treatment

- ▶ Searching for a cure
- ▶ Uniform approaches to treatment
- ▶ Kill all cells in an area
- ▶ Radiation and cytotoxic chemotherapy
- ▶ Unilateral treatment planning
- ▶ Patients taking direction from physicians
- ▶ Creating a liveable, chronic disease
- ▶ Tailored treatment pathways
- ▶ Target rapidly reproducing cells
- ▶ Addition of gene & cytostatic chemotherapy
- ▶ Multidisciplinary treatment planning
- ▶ Patients actively involved in decisions

Source: Siddhartha Mukherjee (NPR Interview) and Kurt Salmon analysis

Chronic Cancer: Implications

In this environment

- ▶ Treatment planning and treatment delivery functions are likely to de-couple
 - Tailored treatment plans will require subspecialty expertise and infrastructure, which is often consolidated
 - Frequent, chronic treatments will require convenient, distributed access points
- ▶ Leading diagnostic centers will continue to make significant investments (capital and personnel) in technology
 - In addition to EHRs, cancer care will require sophisticated analytical capabilities to match treatment protocols to tumor and patient characteristics and measure efficacy

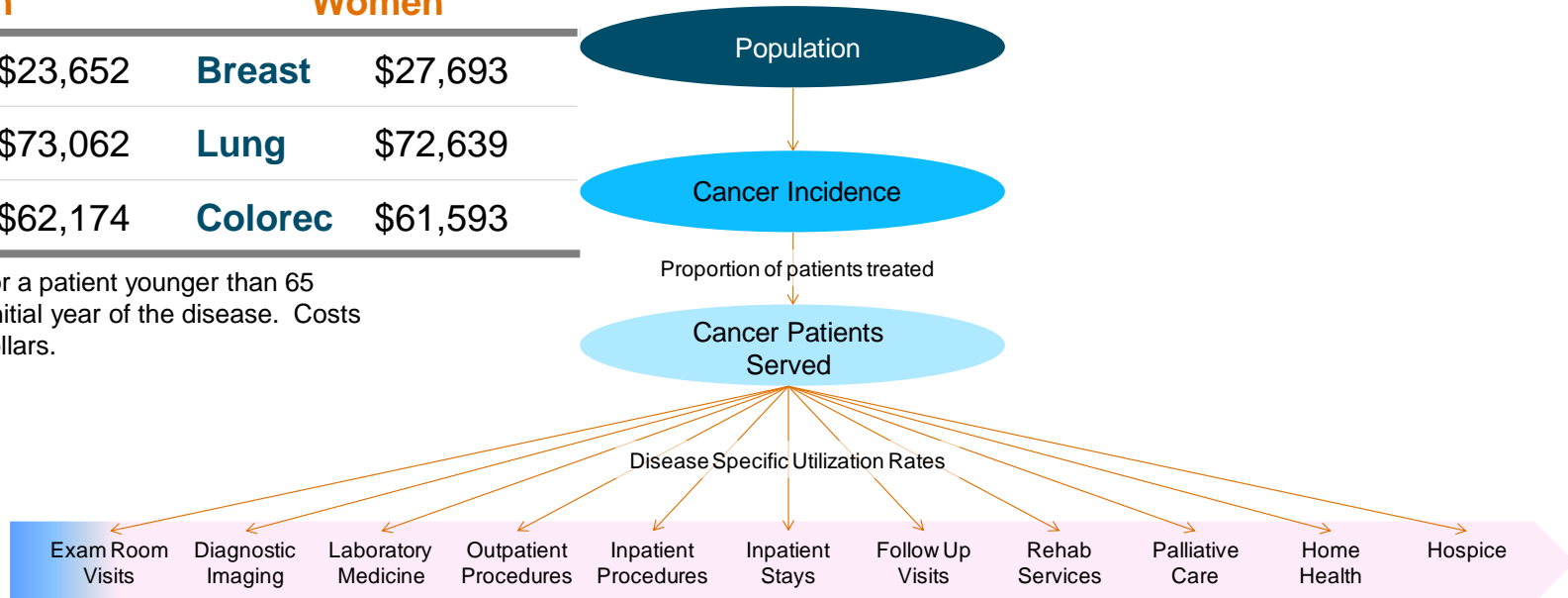
Chronic Cancer: Implications

- Levers to value creation will remain unchanged
 - Reduce incidence via prevention - 50-75% of deaths are preventable; research is under-funded
 - Reduce direct treatment costs – Downstream consequences of each diagnosis are significant

Example: Annual Treatment Costs

Top 3 Cancers for Men		Top 3 Cancers for Women	
Prostate	\$23,652	Breast	\$27,693
Lung	\$73,062	Lung	\$72,639
Colorec	\$62,174	Colorec	\$61,593

Note: Costs are for a patient younger than 65 years and in the initial year of the disease. Costs are in 2010 US dollars.



Source: *Journal of the National Cancer Institute* and Kurt Salmon analysis

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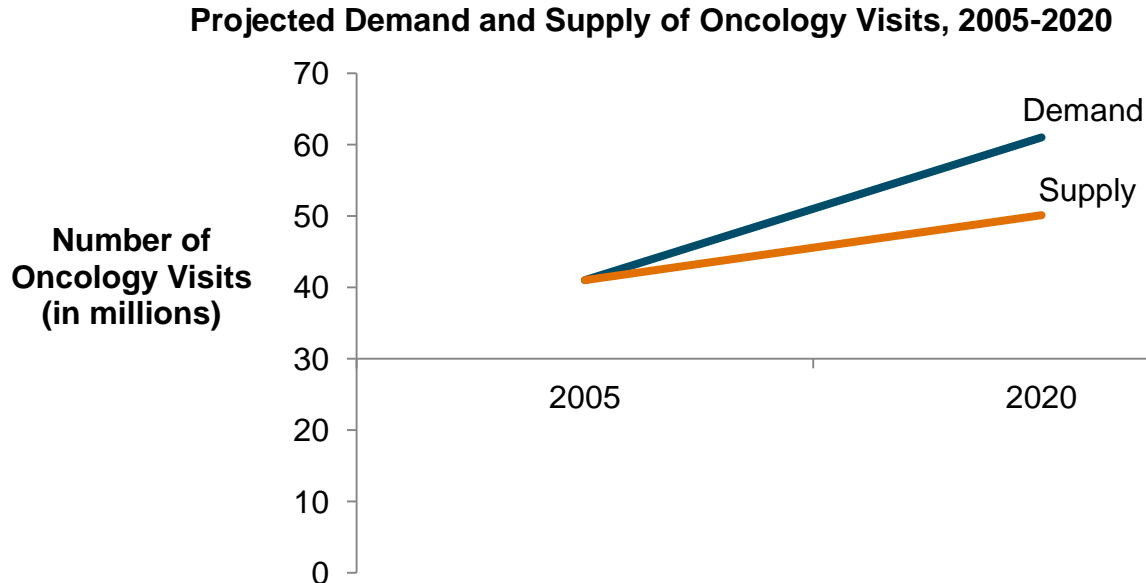
Considerations for Comprehensive Cancer Center Design

Collapse of Private Practice Oncology

Private Practice Oncology: Context

The U.S. is facing an impending, acute shortage of Oncologists, driven by

- ▶ Aging population
- ▶ Increased survivorship
- ▶ Aging physician workforce

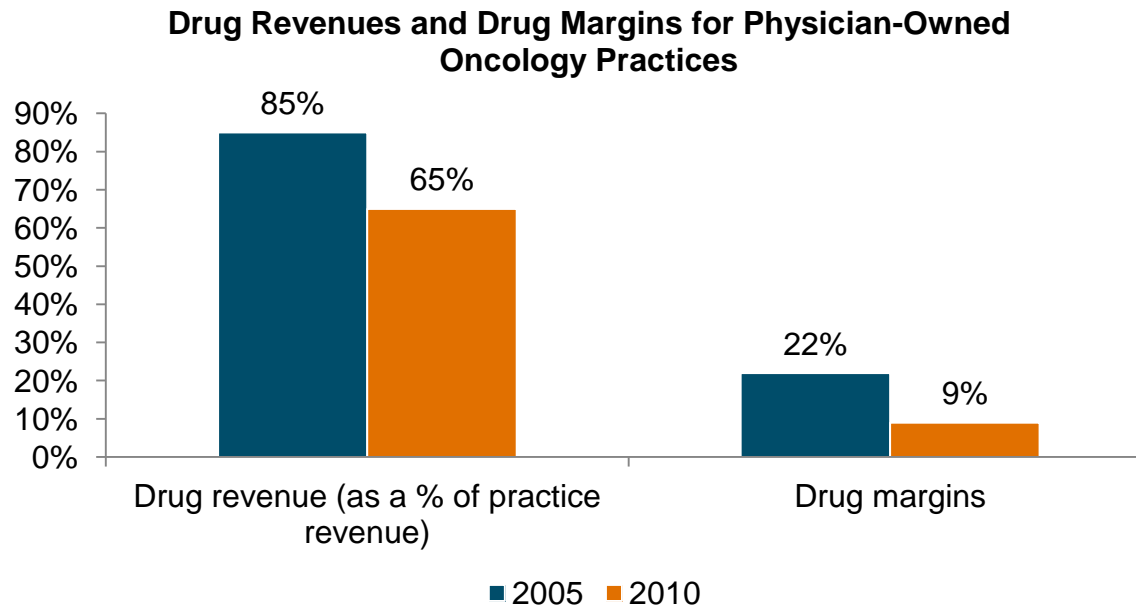


Source: American Society of Clinical Oncology and Kurt Salmon analysis

Private Practice Oncology: Context

Worse, declining reimbursement is threatening viability of existing practices

- ▶ Cancer drugs represent the largest drivers of revenues in oncology practices
 - 2003: Medicare Modernization Act reduced drug net income by ~25-35%
 - 2004-2010: Further real chemotherapy cuts of 47%
- ▶ Practice expenses continuing to rise, despite waning reimbursement



Source: American Society of Clinical Oncology, Journal of Oncology Practice, Community Oncology Alliance and Kurt Salmon analysis

Private Practice Oncology: CCC Positioning

Hospitals continue to enjoy an arbitrage opportunity in acquiring private practices

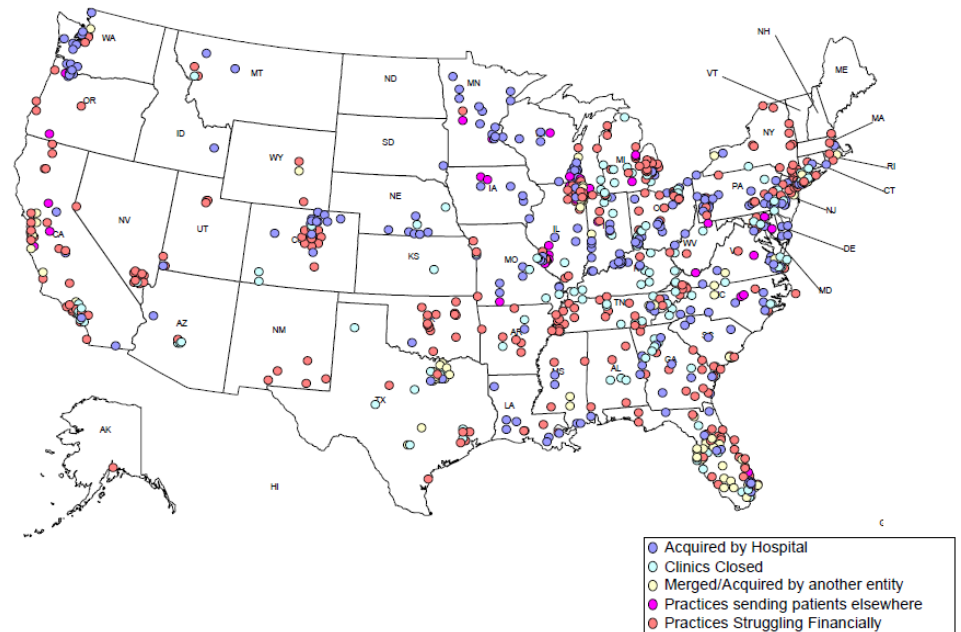
- ▶ For many specialties/services, technical fee gains in converting to hospital-based reimbursement overwhelm professional fee reductions
- ▶ Often, opportunities for incremental technical fees allow hospitals to cross-subsidize employed physician practices
- ▶ Coupled with deteriorating practice economics, these dynamics have led to the virtual collapse of private practice models in cardiology

Private Practice Oncology: CCC Positioning

Oncology may be the next cardiology

- ▶ Oncology private practices are rapidly consolidating/being employed by hospitals
- ▶ ~36% of community practices were economically threatened in the past 3-4 years

Community Oncology Cancer Care Impact Map



315	Practices acquired by hospitals
199	Clinics closed
111	Practices merged/acquired by another entity
48	Practices sending all chemotherapy patients elsewhere
369	Practices struggling financially

Source: Community Oncology Alliance and Kurt Salmon analysis

Private Practice Oncology: CCC Positioning

These forces will provide Comprehensive/Academic Centers opportunities to “buy” community presence and further consolidate local volumes

Case Study: UVA

- ▶ Acquiring Hematology Oncology Patient Enterprises (HOPE), a private oncology practice
 - Based in Charlottesville, VA
 - Will retain four clinical locations and all physicians
 - Projected to generate \$35 million in additional revenue to UVMC
 - Physicians at HOPE expect improved access to clinical trials and support UVA pursuit of CCC designation



Private Practice Oncology: Implications

In addition, the environment is enabling community hospitals to consolidate expertise and build advanced programs

Case Study: Norton Cancer Institute

- ▶ ~20 employed oncologists
 - Hematology/Oncology
 - Radiation Oncology
 - Pediatric Radiation Oncology
 - Orthopedic Oncology
 - Neuro Oncology
- ▶ One of 14 NCI Community Cancer Centers
- ▶ Sponsored clinical trials
- ▶ Prevention, screening and survivorship programs



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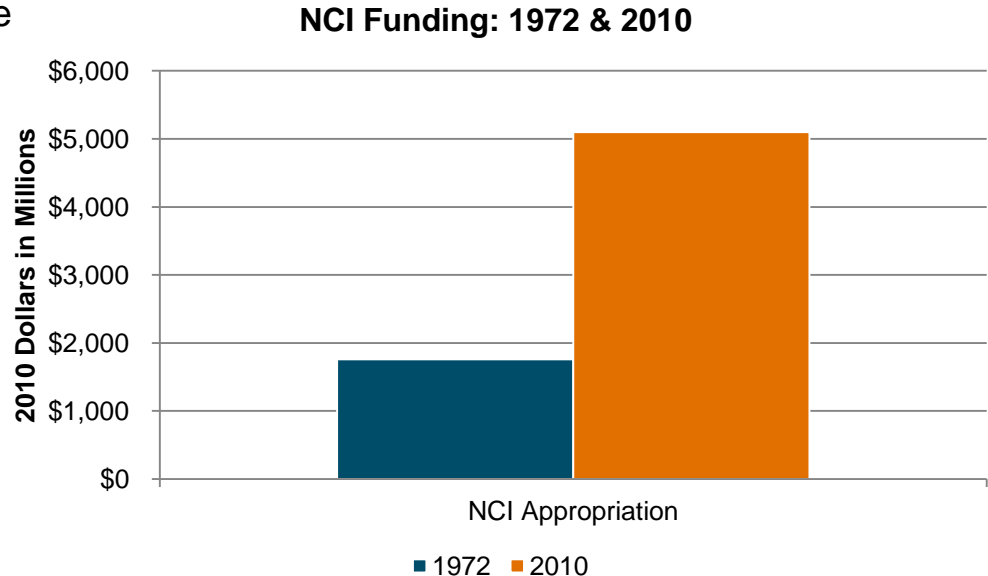
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Funding Vulnerability Facing the Research Mission

Research Funding: Context

Calls to overhaul the current U.S. cancer research system

- ▶ Since Nixon declared “war on cancer” in 1971, the NCI has funded \$100 billion of research, but the current system is perceived as inefficient
 - Concerns that NCI process leads researchers to apply for funding only when outcomes are predictable
 - Minimal coordination or prioritization of different clinical trials within the same disease categories
 - Only 3% of cancer patients participate in clinical trials
 - 54.2% of trials at CCCs were not able to accrue any patients
 - As many as 40% of NCI-funded late stage trials have to be shelved



Source: *New York Times*, *Journal of Clinical Oncology*, *Boston Globe*, Institute of Medicine, NCI, Bureau of Labor Statistics and Kurt Salmon analysis

Research Funding: CCC Positioning

Perceived inefficiencies and pressure to reduce federal spending yields an unfavorable near-term outlook for cancer research funding

- ▶ Federal funding for clinical trials has been flat or declining for years
 - The Clinical Trials Cooperative Group Program, part of the NCI, has seen its funding reduced by 20% since 2002

- ▶ Efforts to cut the deficit have made budgets vulnerable
 - A pending Senate bill would cut NCI funding by \$58 million
 - The Department of Defence's Congressionally Directed Medical Research Program (CDMRP) has also come under fire by opponents of federal spending

Research Funding: Implications

Implications of reduced research funding

- ▶ Academics/Comprehensive Centers likely to focus on recapturing space v. building new
 - At many Centers today, space is not consistently re-assigned based on needs/funding
- ▶ New space and back office infrastructure will need to be efficient and flexible
 - Easily transferred from one PI to another
 - Easily shared by multiple PIs
- ▶ Collaboration across institutions is likely to increase
 - The NCI is already seeking efficiency and has begun consolidating its clinical trials system
 - Increased focus on clinical trials accruals/participation may require increased collaboration

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Considerations for Comprehensive Cancer Center Design

Blurring of Organizational Boundaries




Organizational Boundaries: Context

Comprehensive Cancer Centers will increasingly face resource constraints

- ▶ Waning reimbursement for employed physician bases
- ▶ Cuts to federal research funding
- ▶ Reduced reimbursement/cost containment strategies from payors

Organizational Boundaries: CCC Positioning

Collaborative models emerging to mitigate resource constraints

	Arm's Length		Programmatically Integrated
			
Est.	2005	2006	2011
Type	Community outreach	Hub & spoke affiliation	Program extension
Aim	Create/implement effective community-based interventions to impact cancer disparities in the Tampa area	Work with community physicians to keep patients closer to home and ensure coordinated care	Deliver an unprecedented level of cancer care to residents of AZ and the Southwest
Scope	<u>Components</u> <ul style="list-style-type: none"> ● Partnerships with local non-profits ● Community education ● Community-based research ● Survivorship support 	<u>Affiliates offered</u> <ul style="list-style-type: none"> ● Physician rotations ● Access to research ● Treatment planning ● Nurse training 	<u>Banner site</u> <ul style="list-style-type: none"> ● MDA clinical oversight ● Full implementation of MDA clinical model ● Joint recruiting ● Extension of Main Campus research ● Connectivity to Houston

Organizational Boundaries: Implications

Implications of increased partnerships

- ▶ Scope and scale of existing partnerships is likely to expand
 - Continued, increasing resource constraints are likely to encourage further collaboration
- ▶ Planning function must cross organizations
 - Scale benefits cannot be accrued without cooperative resource allocation/investments
- ▶ Care protocols at new affiliates may change dramatically
 - Downstream implications on capacities required and achievable throughput
- ▶ Investments in connectivity will often be required
 - Data sharing is required to coordinate care, execute research and learn
 - Partners often using different systems for records management and cost accounting

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Considerations for Comprehensive Cancer Center Design

Questions

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Considerations for Comprehensive Cancer Center Design

Appendices

Appendix A: Kurt Salmon Contact Information

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