# UK HealthCare Strategic Plan 2020

Mid-Year Update

1/27/2016





## Strategy 2020: Mid-Year Update

| 1. | Opening Remarks (10 min)  | Michael Karpf, MD  |
|----|---|--|
| 2. | Patient Centered Care (10 min)  | Bo Cofield, DrPH   |
| 3. | Growth in Complex Care (10 min)   | Bo Cofield, DrPH   |
| 4. | Strengthen Partnership Networks (45 min)  a) Acute Care b) Cincinnati Children's c) Post-Acute Care d) Primary Care & Community Care / Telehealth | Rob Edwards, DrPH<br>Bernie Boulanger, MD<br>Colleen Swartz, DNP<br>Bo Cofield, DrPH |
| 5. | Value-Based Care & Payments (10 min) a) Overview b) OptimalCare   | Bo Cofield, DrPH<br>Bernie Boulanger, MD   |
| 6. | Strategic Enablers (10 min) a) Implementation & Marketing b) Technology   | Mark D. Birdwhistell<br>Bo Cofield, DrPH   |
| 7. | Facility Planning (20 min)  | Ann Smith & Murray Clark   |
| 8. | Financial Position Update (30 min)  | Craig Collins & Murray Clark   |
| 9. | Closing Remarks (10 min)  | Michael Karpf, MD  |



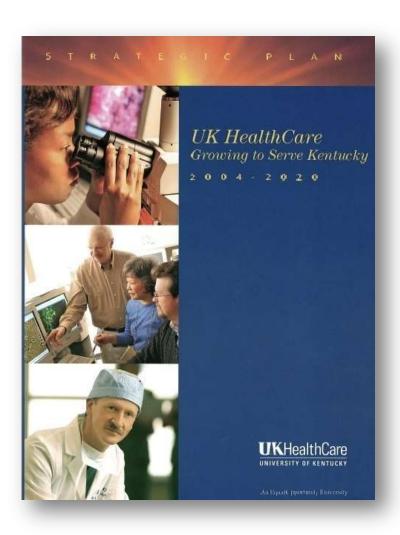
## We Undertook a Marathon, not a Sprint



When we committed to be an outstanding referral / research intensive Academic Medical Center



## FY 2004 Strategic Plan - Growing to Serve Kentucky



#### **Advanced Subspecialty Care**

Level 1 Trauma Center; Kentucky
 Children's Hospital, Solid-Organ
 Transplantation, Markey Cancer Center,
 Advanced Neurosciences, Advanced
 Surgery, Cardiovascular Services

#### Regional Care - Preserving Rural Providers

 Leverage community health care providers by augmenting specialty services and allowing patients to remain close to home and utilize local services

#### Efficiency, Quality and Patient Safety

 Center for Enterprise Quality and Safety has been established to focus on the development of efficient processes aimed at optimizing clinical outcomes and the safety of patients



## Realization – We Must Expand the Footprint

# Market Definition Primary - 0.3M population Secondary - 0.5M population Tertiary - 1.0M population Other - 2.5M population

**Estimated** 

Incidence per

One Million KY

Residents

34.34

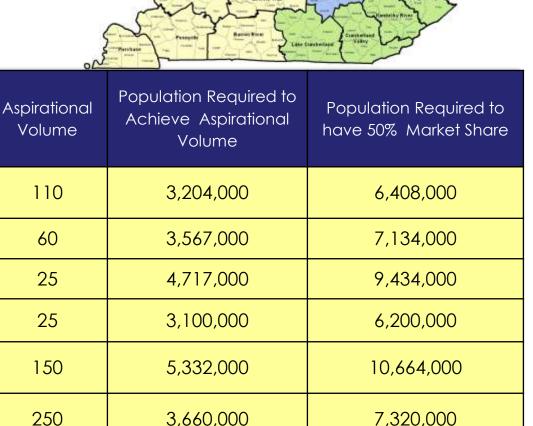
16.82

5.30

8.07

28.13

68.30



Procedure

Pancreas Transplants

Kidney & Kidney /

Liver Transplant

Heart Transplant

Lung Transplant

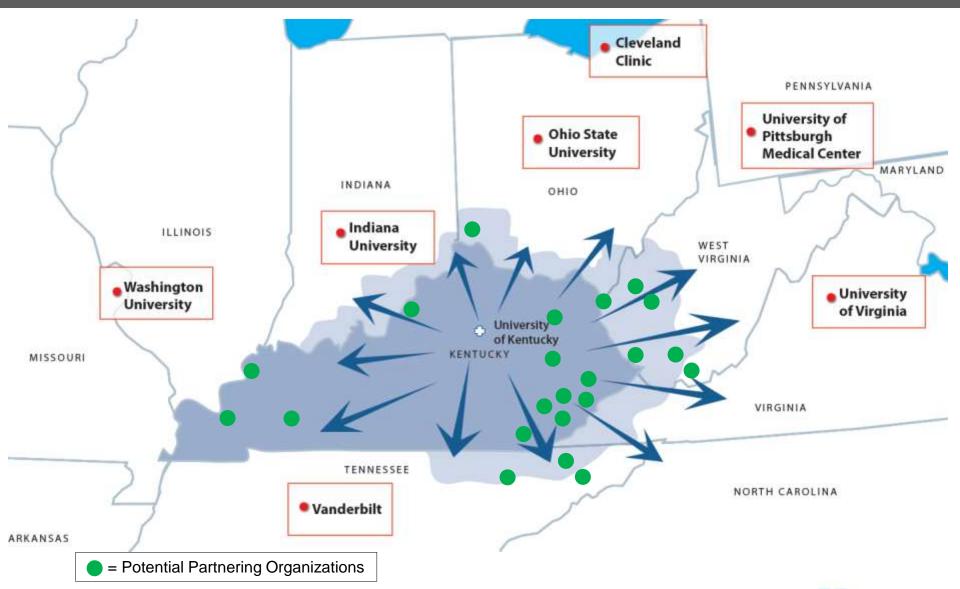
Transplant

**Admissions** 

**Brain Cancer** 

Adult Bone Marrow

## Defining Market Space



## FY 2010 Strategic Plan - Moving Forward

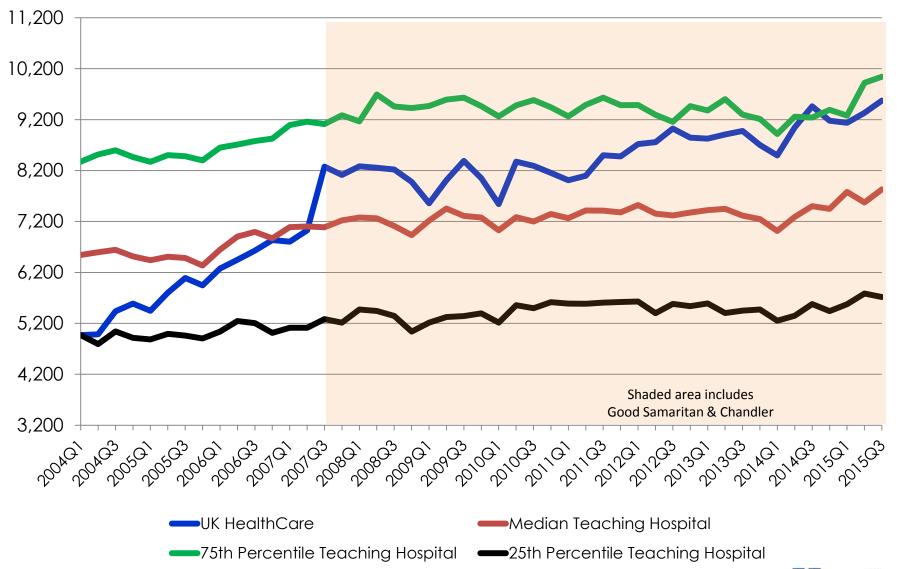


Advancing to serve the health care needs of Kentucky <u>and beyond</u>

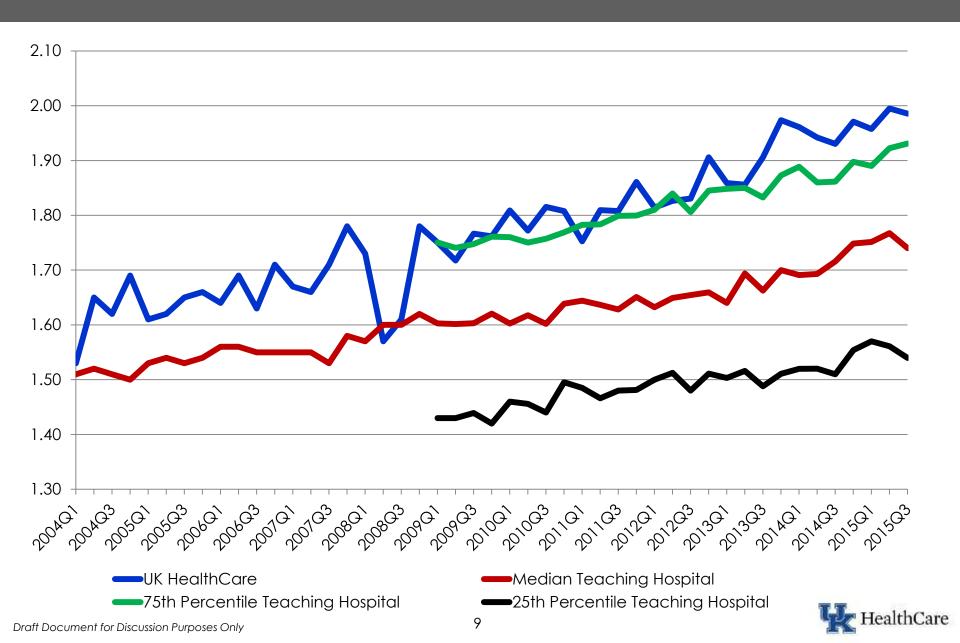
- Continue to refine approach to subspecialty care
- Continue to mature relationships with regional providers
- Reemphasize efficiency, quality, safety, and patient satisfaction



## Total Discharges - COTH Benchmark



#### Case Mix Index - COTH Benchmark



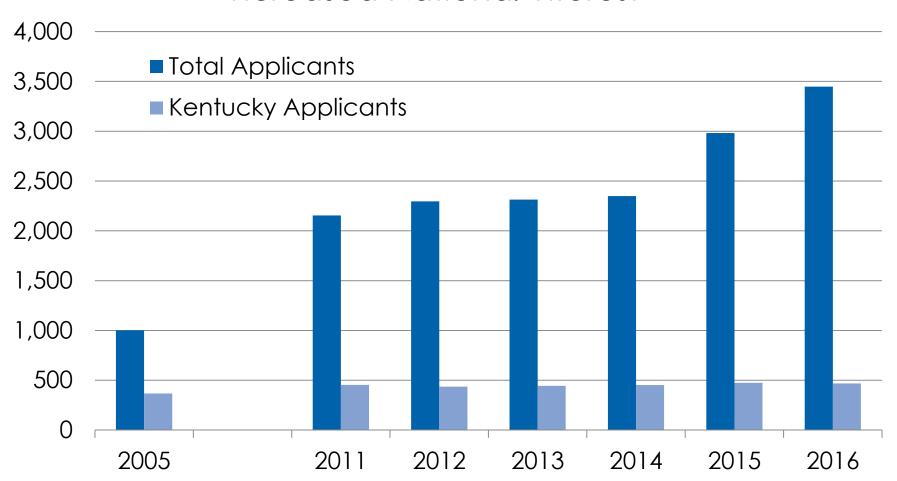
## Delivering on Our Mission

To be a successful referral / research intensive Academic Medical Center, we must excel in both our clinical and academic programs



## College of Medicine – MD Applicant Pool

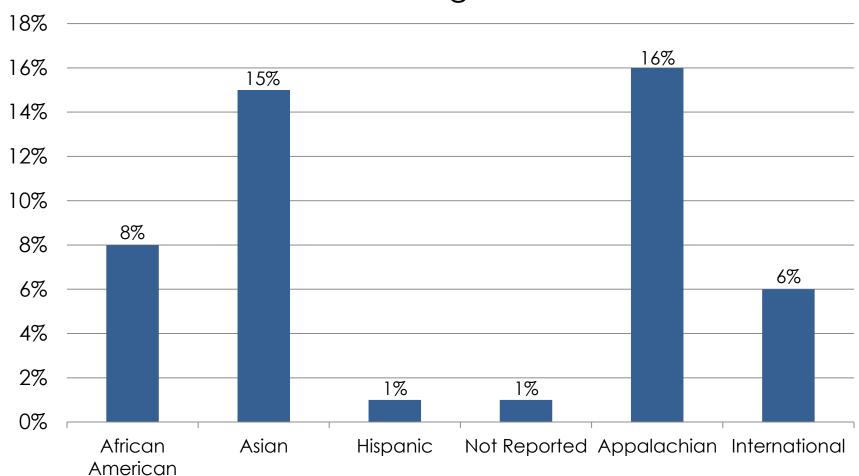
#### Increased National Interest





## College of Medicine – Student Diversity







## College of Medicine – Recruiting Activities

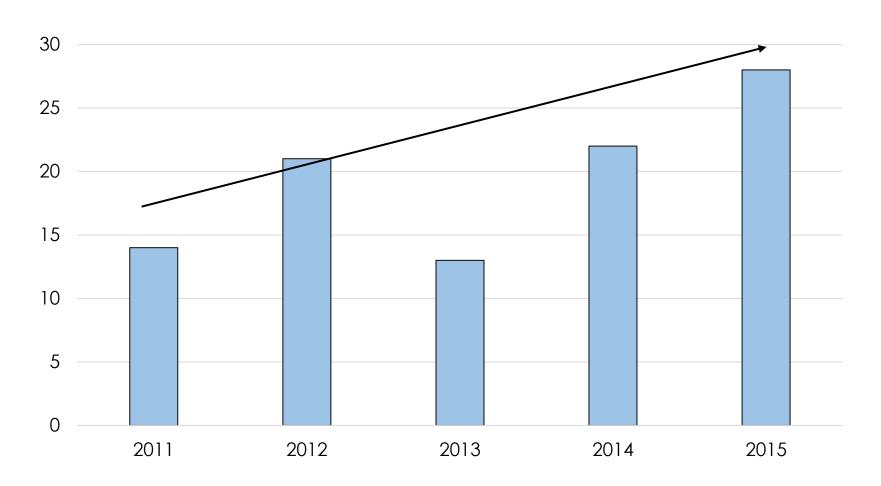
- UK See Blue Preview Nights (undergraduate recruiting)
- UK Come See For Yourself (undergraduate minority recruiting)
- Student National Medical Association Conference
- Bridges to Medicine
- College Visits
- UK Premedical group presentations

- Class presentations, e.g. UK101 sections, HSP 101
- RPLP Open Houses
- UKMED
- Boot Camp
- One on one advising
- Personal phone calls



## College of Medicine – Kentucky Applicant Pool

#### Number of African-American / Black Applicants 2010-2015





## College of Medicine – Student Success

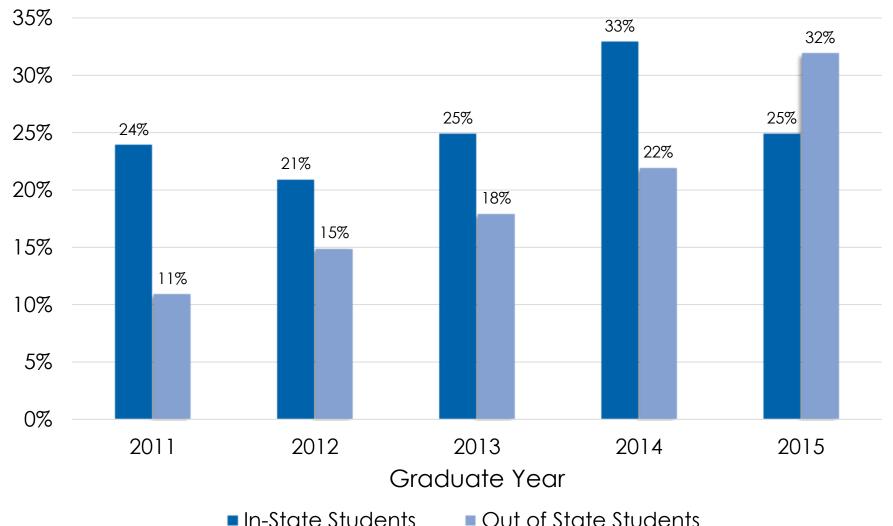
#### African-American/Black Graduates from UK CoM

- Graduation rates for all medical students remains ~95%.
- Graduation rates for all demographics (gender, race, in-state status, etc.) are equivalent.
- Examples of residency placement:
  - Harvard-Anesthesia
  - Colorado-ENT Surgery
  - Miami-Neurology
  - Emory-Family Medicine
  - UCSF-Internal Medicine
  - Pittsburgh-Internal Medicine, Psychiatry
  - George Washington-Internal Medicine



## College of Medicine – Residency Placement

### Graduates Staying for UK Residency Training (2011-2015)





## College of Medicine – Accreditation

## **Program Accreditation Status**

- Total of 54 medical training programs
  - 29 Residency Programs
  - 25 Fellowship Programs
    - Three newly ACGME-accredited fellowships for 2014-2015
      - Neuroradiology
      - Advanced Heart Failure / Transplant Cardiology
      - Critical Care Medicine
- All with Continued Accreditation from ACGME
- No programs on probation



## NIH Funding – 2015 Federal Fiscal Year

UNIVERSITY OF LOUISVILLE

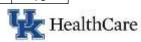
| ORGANIZATION                            | FUNDING       | Rank |
|---|---------------|------|
| JOHNS HOPKINS UNIVERSITY                | \$603,829,678 | 1    |
| UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | \$563,320,692 | 2    |
| UNIVERSITY OF PENNSYLVANIA              | \$457,976,530 | 3    |
| UNIVERSITY OF MICHIGAN                  | \$456,901,579 | 4    |
| UNIVERSITY OF WASHINGTON                | \$446,734,120 | 5    |
| UNIVERSITY OF PITTSBURGH AT PITTSBURGH  | \$436,124,690 | 6    |
| STANFORD UNIVERSITY                     | \$422,753,698 | 7    |
| DUKE UNIVERSITY                         | \$391,851,308 | 8    |
| UNIVERSITY OF CALIFORNIA SAN DIEGO      | \$389,747,641 | 9    |
| UNIV OF NORTH CAROLINA CHAPEL HILL      | \$383,140,640 | 10   |
| WASHINGTON UNIVERSITY                   | \$378,070,895 | 11   |
| UNIVERSITY OF CALIFORNIA LOS ANGELES    | \$371,356,405 | 12   |
| YALE UNIVERSITY                         | \$352,493,886 | 13   |
| EMORY UNIVERSITY                        | \$334,644,691 | 14   |
| COLUMBIA UNIVERSITY HEALTH SCIENCES     | \$331,756,258 | 15   |
| VANDERBILT UNIVERSITY                   | \$307,397,159 | 16   |
| ICAHN SCHOOL OF MEDICINE AT MT SINAI    | \$274,412,913 | 17   |
| UNIVERSITY OF WISCONSIN-MADISON         | \$272,694,613 | 18   |
| BAYLOR COLLEGE OF MEDICINE              | \$253,444,086 | 19   |
| UNIVERSITY OF MINNESOTA                 | \$245,447,037 | 20   |
| UNIVERSITY OF ALABAMA AT BIRMINGHAM     | \$243,263,382 | 21   |
| NORTHWESTERN UNIVERSITY AT CHICAGO      | \$234,486,159 | 22   |
| OREGON HEALTH & SCIENCE UNIVERSITY      | \$197,474,824 | 23   |
| UNIVERSITY OF SOUTHERN CALIFORNIA       | \$197,207,432 | 24   |
| UNIVERSITY OF COLORADO DENVER           | \$195,295,612 | 25   |
| UNIVERSITY OF CALIFORNIA AT DAVIS       | \$195,183,640 | 26   |
| HARVARD MEDICAL SCHOOL                  | \$182,301,098 | 27   |
| NEW YORK UNIVERSITY SCHOOL OF MED       | \$178,407,775 | 28   |
| UNIVERSITY OF CHICAGO                   | \$170,968,052 | 29   |
| UT SOUTHWESTERN MEDICAL CENTER          | \$160,637,824 | 30   |
| CASE WESTERN RESERVE UNIVERSITY         | \$160,015,936 | 31   |
| UNIVERSITY OF ROCHESTER                 | \$158,692,235 | 32   |
| UNIVERSITY OF IOWA                      | \$151,245,651 | 33   |

| ORGANIZATION                             | FUNDING       | Rank |
|--|---------------|------|
| UNIVERSITY OF MARYLAND BALTIMORE         | \$149,391,068 | 34   |
| UNIVERSITY OF UTAH                       | \$143,158,661 | 35   |
| ALBERT EINSTEIN COLLEGE OF MEDICINE      | \$142,470,750 | 36   |
| OHIO STATE UNIVERSITY                    | \$136,128,917 | 37   |
| UNIV OF MASS MED SCH WORCESTER           | \$134,092,373 | 38   |
| UNIVERSITY OF FLORIDA                    | \$132,248,361 | 39   |
| BOSTON UNIVERSITY MEDICAL CAMPUS         | \$127,936,216 | 40   |
| WEILL MEDICAL COLL OF CORNELL UNIV       | \$120,766,304 | 41   |
| INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS | \$118,606,932 | 42   |
| UNIVERSITY OF VIRGINIA                   | \$113,546,470 | 43   |
| UNIVERSITY OF CALIFORNIA-IRVINE          | \$107,899,797 | 44   |
| UNIVERSITY OF ILLINOIS AT CHICAGO        | \$101,774,014 | 45   |
| UNIVERSITY OF MIAMI SCHOOL OF MEDICINE   | \$99,364,986  | 46   |
| UNIVERSITY OF KENTUCKY                   | \$97,384,185  | 47   |
| MEDICAL UNIVERSITY OF SOUTH CAROLINA     | \$96,759,015  | 48   |
| UNIVERSITY OF SOUTH FLORIDA              | \$95,693,475  | 49   |
| CLEVELAND CLINIC LERNER COM-CWRU         | \$95,453,745  | 50   |
| VIRGINIA COMMONWEALTH UNIVERSITY         | \$90,007,269  | 51   |
| DARTMOUTH COLLEGE                        | \$89,670,917  | 52   |
| WAKE FOREST UNIVERSITY                   | \$88,523,477  | 53   |
| MEDICAL COLLEGE OF WISCONSIN             | \$87,016,918  | 54   |
| GEORGE WASHINGTON UNIVERSITY             | \$79,878,664  | 55   |
| UNIVERSITY OF TEXAS MEDICAL BR GALVESTON | \$78,680,933  | 56   |
| UNIVERSITY OF TEXAS HLTH SCI CTR HOUSTON | \$76,428,842  | 57   |
| UNIVERSITY OF ARIZONA                    | \$75,717,196  | 58   |
| WAYNE STATE UNIVERSITY                   | \$64,684,356  | 59   |
| TEMPLE UNIV OF THE COMMONWEALTH          | \$64,275,757  | 60   |
| CORNELL UNIVERSITY                       | \$63,967,065  | 61   |
| BROWN UNIVERSITY                         | \$62,024,463  | 62   |
| ROCKEFELLER UNIVERSITY                   | \$61,608,717  | 63   |
| UNIVERSITY OF TEXAS HLTH SCIENCE CENTER  | \$61,508,907  | 64   |
| UNIVERSITY OF TEXAS, AUSTIN              | \$61,110,295  | 65   |
| UNIVERSITY OF CINCINNATI                 | \$60,040,912  | 66   |

Note: Blue shading highlights public organizations ranked above the University of Kentucky

Data Source: NIH Reporter, the federal database of grants awarded by NIH to Domestic Institutes of Higher Education

Draft Document for Discussion Purposes Only



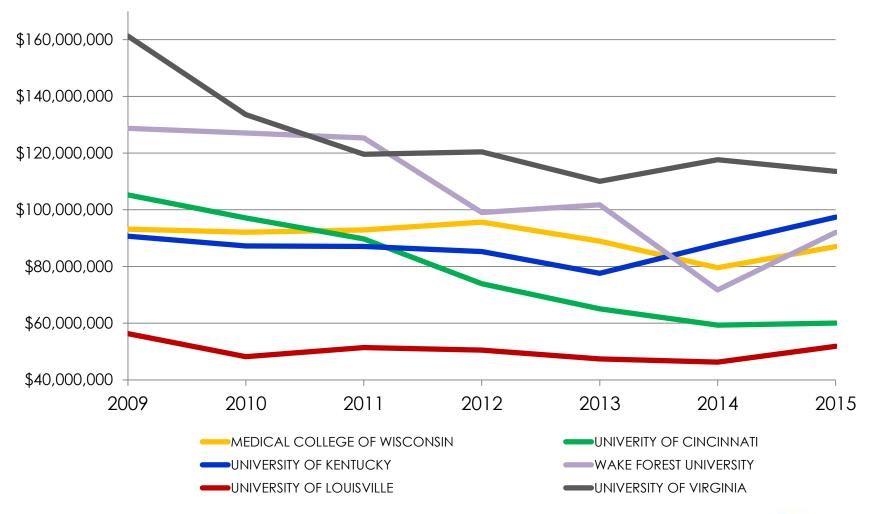
\$51,858,895

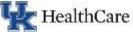
17<sup>TH</sup>
Public
Ranking
20<sup>TH</sup>
Public
Ranking

25<sup>TH</sup>
Public
Ranking

## NIH Funding Comparison

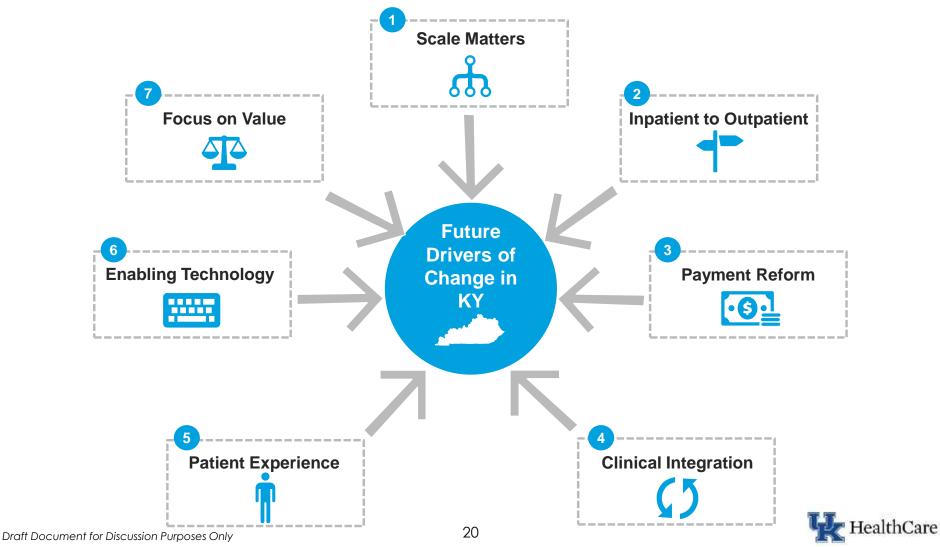
#### NIH Funding by Federal Fiscal Year





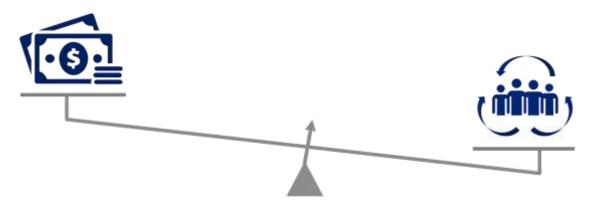
## Responding to National Drivers of Change

UKHC and other providers in Kentucky will need to respond to national trends



### Value-Based Care in Kentucky

Pressure to lower health care costs and the increasing prevalence of VBC initiatives may "tip the scale" towards value-based care in Kentucky



#### Factors That Could "Tip the Scale"

- Phasing of payment reform
- Competition amongst providers
- Commonwealth of Kentucky fiscal requirements
- Increased focus on population health management
- Proliferation of population management technology
  - UKHC leadership in care excellence



## Inflection Point for Kentucky

Changes in the national market and within the Commonwealth have created a major inflection point in healthcare delivery in Kentucky



National trends in healthcare will shift Kentucky's focus from isolated illness and injury care to coordinated, comprehensive care and improved outcomes

- Kentucky needs a statewide health network or collaborative to shape the future
- Focus will shift to improving health outcomes and rationalizing not rationing care
- Care must be affordable, accessible, coordinated, efficient, and high quality



## It's a Marathon, not a Sprint



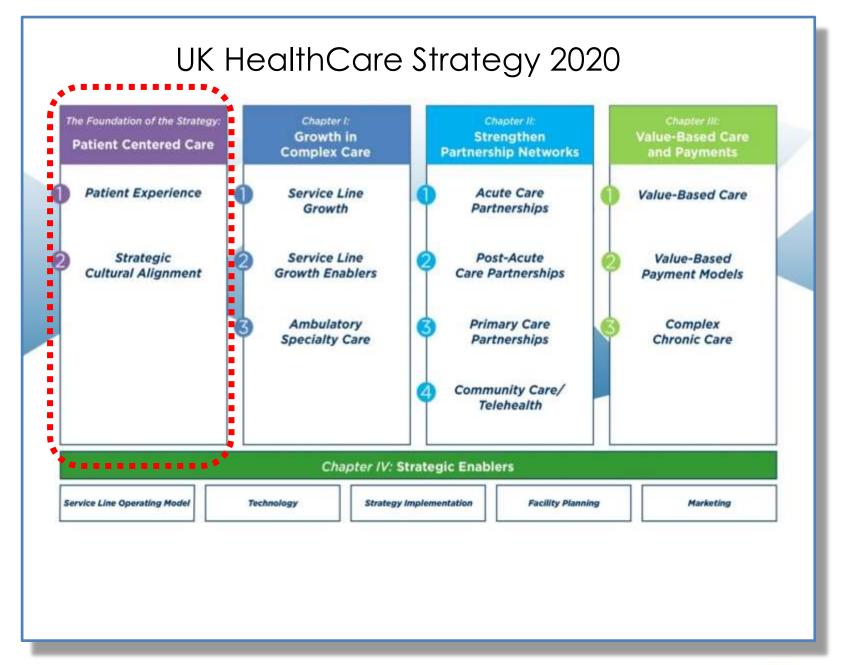


#### UK HealthCare Goal

# Create a system that *rationalizes* care, not rations care.

- Provides care in appropriate settings and develops a seamless continuum of care.
- Will require partnerships with providers, insurers, and purchasers AND appropriate integrative systems – information systems and medical management tools.
- System may be virtual, real or a combination.





# THE FOUNDATION OF THE STRATEGY: PATIENT CENTERED CARE Strategic Cultural Alignment

| Strategic Cultural Alignment  |  |  |  |  |
|---|--|--|--|--|
| Staff Engagement  | Physician Engagement   |  |  |  |
| Senior Leader communication of 2020 Strategy underway   | Senior Leader communication of 2020 Strategy underway  |  |  |  |
| RFP submitted for revitalized Reward and Recognition program  | Meetings held with each Department Chair to review data  |  |  |  |
| Quarterly Staff Appreciation Stations started in November 2015.   | Physician Engagement Leadership Group meetings started in late 2015 and continues to meet monthly. |  |  |  |
| 2016 survey planning underway for mid-March launch  | Round one: Physician Breakfasts with Drs. Karpf and Cofield begin in January 2016.                 |  |  |  |
| • 2015 Leader Resource Sessions completed in late 2015.   | 2016 survey planning underway for mid-March launch   |  |  |  |
| Talent Management - Group one complete and group two – starting in early 2016.  | <ul> <li>Senior Leader shadowing of faculty begin in Spring<br/>2016</li> </ul>                    |  |  |  |
| <ul> <li>Leadership Development Quarterly Sessions<br/>approved and in development -starting in February<br/>2016.</li> </ul> | Involve faculty in Quarterly Leadership Development activities                                     |  |  |  |

#### HealthCare

**Diversity & Inclusivity** 

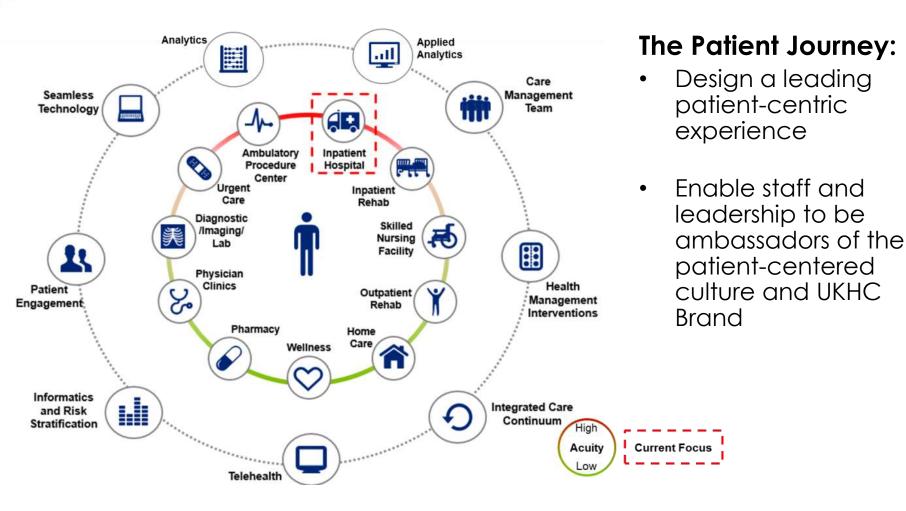
# THE FOUNDATION OF THE STRATEGY: PATIENT CENTERED CARE Strategic Cultural Alignment

## Diversity and Inclusivity Process Measures

- Developing a Diversity and Inclusiveness (D&I) Steering Council at UKHC
- UKHC earned Healthcare Equity Index (HEI) designation
- Eastern State Hospital, managed by UKHC, is an HEI leader (www.hrc.org
- UKHC is a member of the Institute for Diversity in Health Management
- Deployment of Unconscious Bias training to all UKHC team members and faculty
- Development of D&I web-based training for all UKHC team members and faculty (to be completed annually)
- Establish numerical objectives for Strategy 2020 in-line with University strategic goals
- Introducing D&I concepts at New Employee Orientation



# THE FOUNDATION OF THE STRATEGY: PATIENT CENTERED CARE Patient Experience





#### THE FOUNDATION OF THE STRATEGY: PATIENT CENTERED CARE Patient Experience

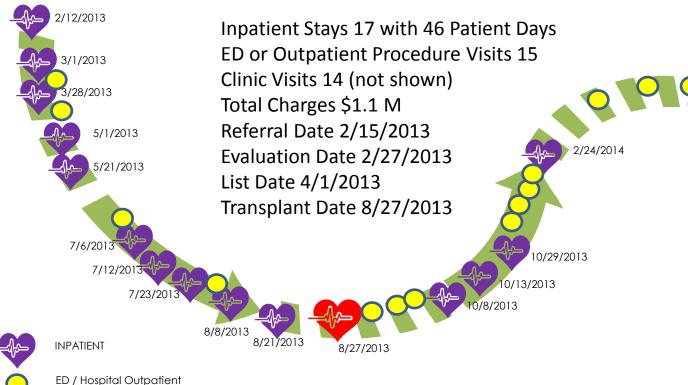
Heart Transplantation Patients



# THE FOUNDATION OF THE STRATEGY: PATIENT CENTERED CARE **Patient Experience**



Hypertension **Pulmonary Embolism** Esophageal Reflux Valve Disease Cardiomyopathy Renal Failure AMI Dysrhythmia Liver Disorder Cardiac Bypass Heart Failure Lupus Diabetes Mental Disorders Obesity Hyperlipidemia Anemia Anxiety / Panic Electrolyte Imbalance Pacemaker Alcohol Abuse Smoking **Heart Transplant Hearing Loss** 





5/28/2015

3/10/2015

# THE FOUNDATION OF THE STRATEGY: PATIENT CENTERED CARE **Patient Experience**

#### **Establishing Patient and Family Partners Programs**

- Kentucky Children's Hospital Patient/Family Partnership Council
- Building Design Team Patient/Family Council
- UKHC Employee Patient/Family Partnership Council
- UKHC Patient/Family Partnership Council



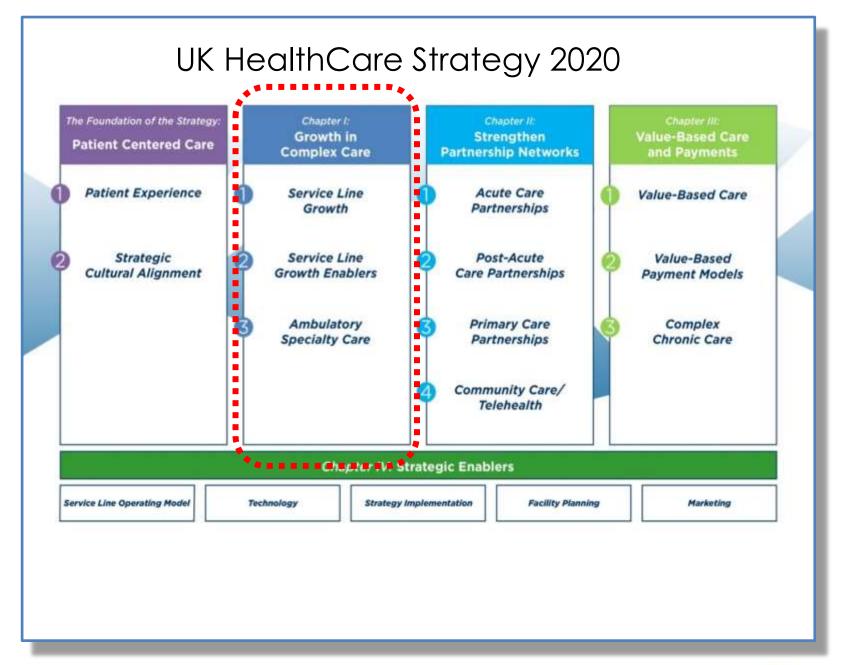
# THE FOUNDATION OF THE STRATEGY: PATIENT CENTERED CARE **Patient Experience**

#### Markey Cancer Center 3<sup>RD</sup> Floor Hematology/BMT Unit









# GROWTH IN COMPLEX CARE Service Line Growth

Woman Donates Kidney to Stranger, Now They're Getting Married



Heart transplants unite long-lost brothers



Young Lexington actor is back in full voice after almost dying



After One Twin Brother Collapses, the Other Discovers They Share a Rare and Often-Fatal Heart Defect: 'God Saved Both of Our Lives'



People Exclusive

Kidney donors, recipients meet for the first time



UK broke Kentucky heart transplant record in 2015

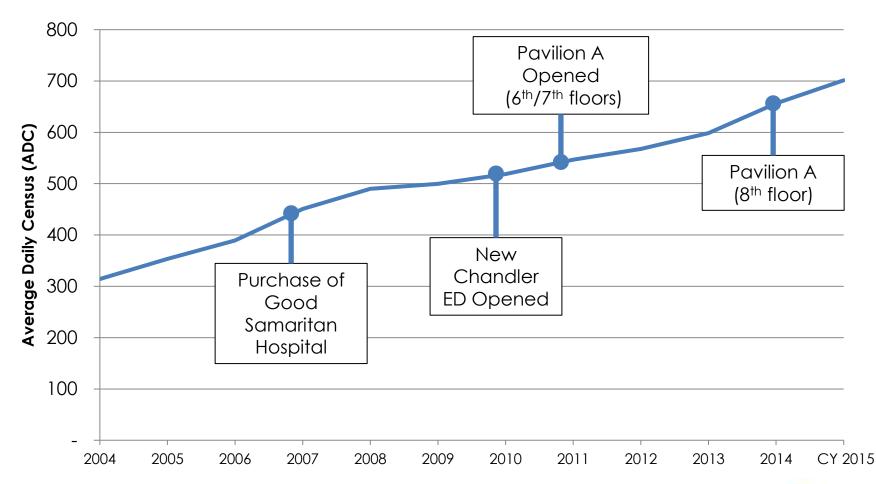




# GROWTH IN COMPLEX CARE Service Line Growth

#### **Annual Average Daily Census**

CY 2004 - CYTD 2015





# GROWTH IN COMPLEX CARE Service Line Growth

#### **UK HealthCare Adult Transfer Request Trend**

(CY2008 - CY2015 Annualized)



## GROWTH IN COMPLEX CARE Service Line Growth

A formal Service Line Operating Model is the next step in the maturation of growing our advanced subspecialty programs



Create a more integrated multispecialty team



Continue to focus on the most advanced subspecialty care and its future evolution in technology and care delivery



Grow programs to comparable size of national programs to ensure future relevance



Continuous value optimization (quality, patient experience and cost efficiency)



Place greater focus on managing the patient across the continuum of care



#### GROWTH IN COMPLEX CARE Service Line Growth

UKHC leadership has identified nine service lines as priorities for growth over the next five years, supported by growth accelerators

- Gill Heart Institute
- End-Stage Organ Failure & Transplantation
- OB / MFM / NICU
- Markey Cancer Center
- Kentucky Children's Hospital
- Digestive Health
- Kentucky Neuroscience Institute
- Musculoskeletal
- Trauma & Acute Care General Surgery





# GROWTH IN COMPLEX CARE Service Line Growth

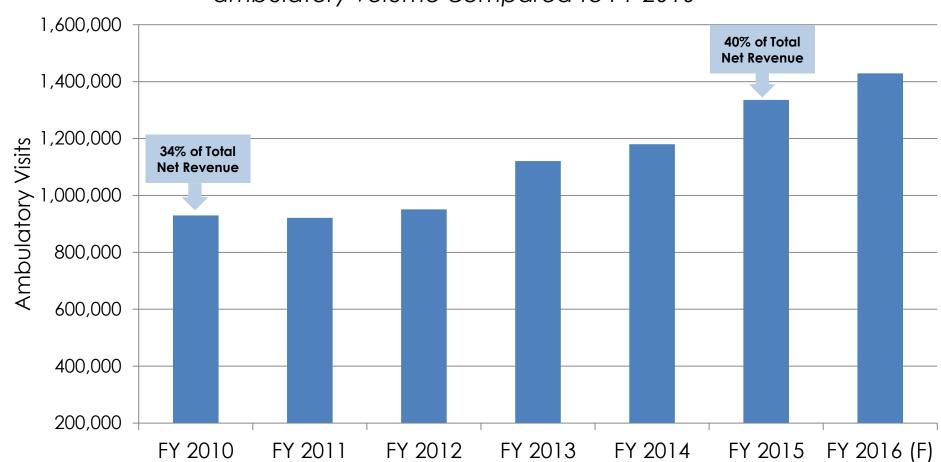
- Significant investments made to-date:
  - \$15 million has been set aside for start-up investments associated with the implementation of strategic initiatives
  - 90+ faculty recruitments approved for FY 2017 focused both on subspecialists and primary care providers
  - Markey Cancer Center Affiliate and Research Networks as well as Community Outreach and Education
  - Personalized Medicine / Genomics Program
  - Enhancement and integration of ambulatory services associated with the Joint Replacement Program



#### GROWTH IN COMPLEX CARE **Ambulatory Specialty Care**

#### **Ambulatory Visits**

The FY 2016 Forecast is projected to have 54% higher ambulatory volume compared to FY 2010



HealthCare

Note: Includes Clinic Visits, Outpatient Hospital Visits and Retail Pharmacy

# GROWTH IN COMPLEX CARE Ambulatory Specialty Care

Rationalize
Ambulatory
locations with
clinical
affiliates

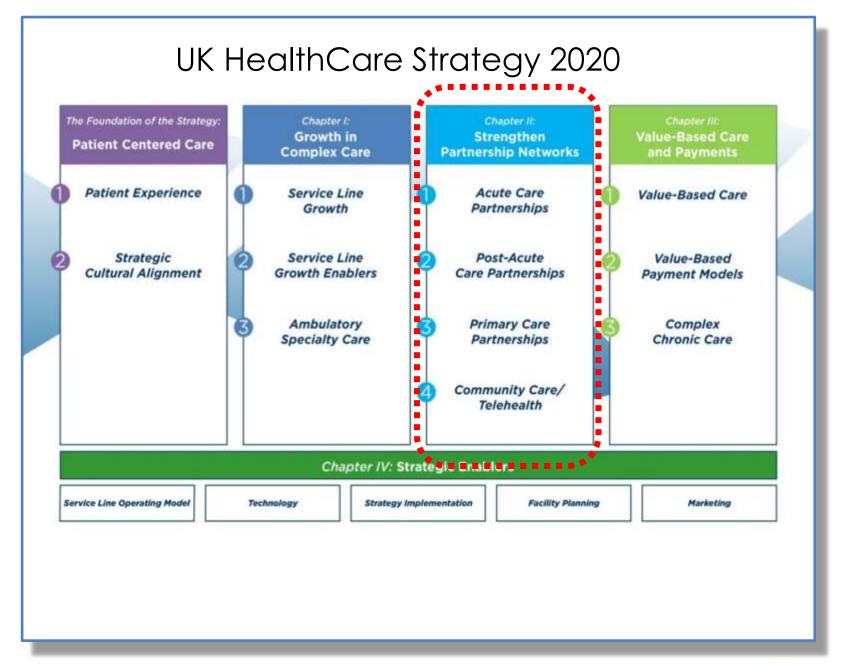
Increase UKHC Facility Size

Increased
Access will
be Critical
for the
Future

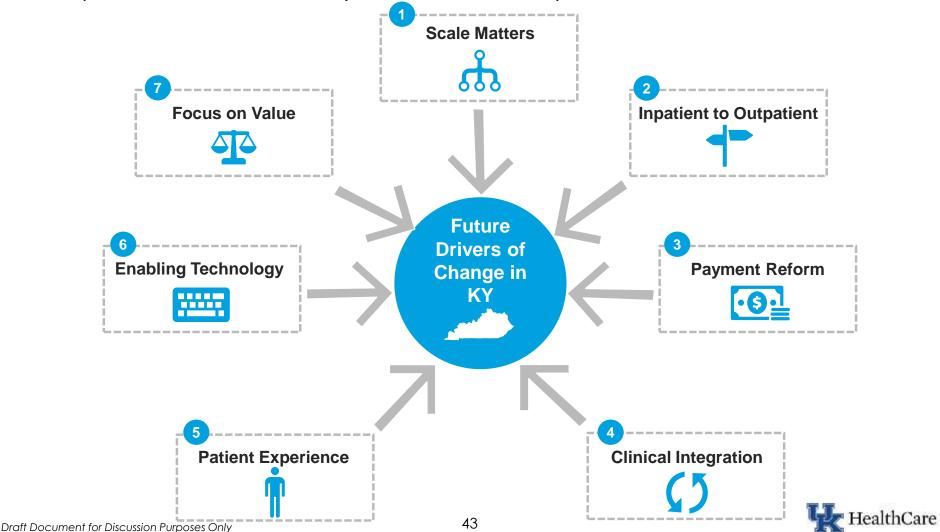
Improved
Operational
Efficiency

Rationalize Local Ambulatory Locations



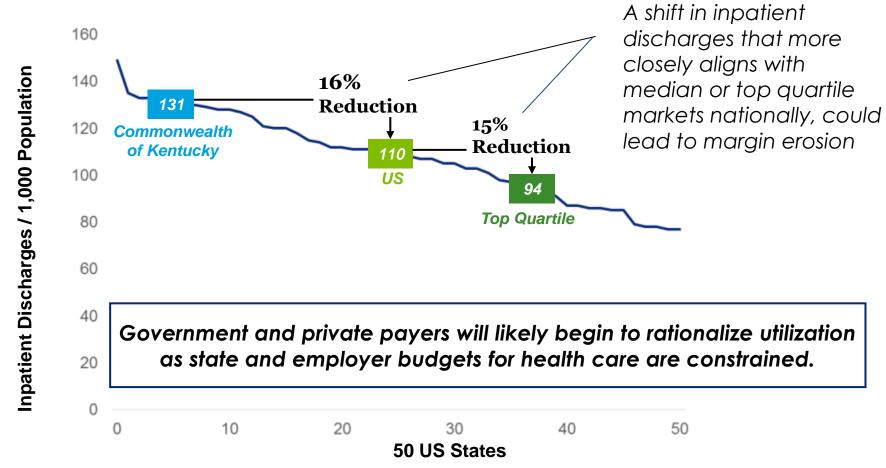


 Responding to National Drivers of Change: UKHC and other providers in Kentucky will need to respond to national trends



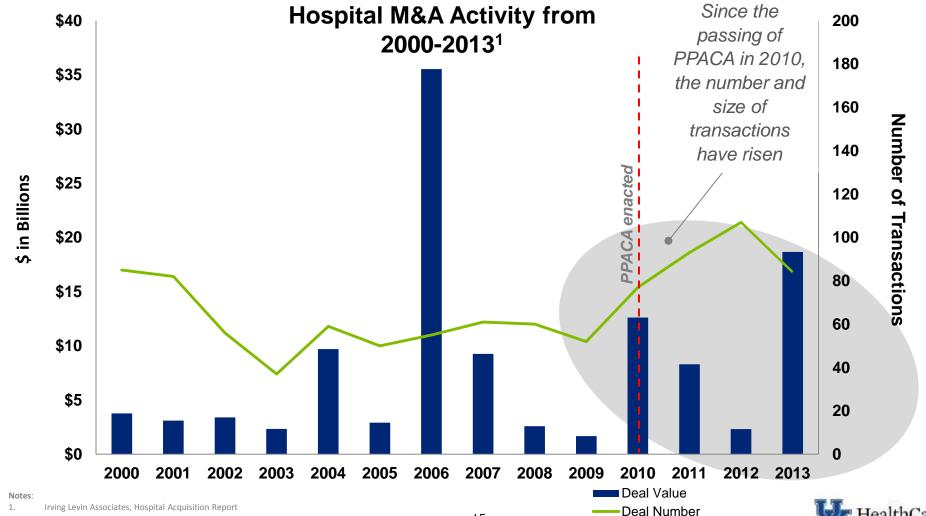
National trends towards decreased inpatient utilization is a challenge







 Nationally, the hospital industry is consolidating as providers seek the necessary scale to compete in today's healthcare environment



 Consolidation within Kentucky's fragmented payer market, such as the potential sale of Humana, could accelerate payment model shifts and heighten the need for provider collaboration

"Health insurer Humana Inc. is exploring a possible sale of the company, a move that could trigger a round of mergers in an industry grappling with challenges and opportunities the federal health-care overhaul has created"

-Wall Street Journal<sup>1</sup>

"Shares surge 20% to close at \$214.65, an all-time high"

-Wall Street Journal<sup>1</sup>

"Aetna has been viewed by some industry analysts as the most likely acquirer of Humana, and executives at Aetna have spoken publicly about their interest in acquisitions. Cigna and Anthem also have been linked to Humana, though some industry experts believe an Anthem tie-up could face regulatory challenges over Humana's commercial business, which overlaps with Anthem's in markets such as Kentucky."

-Wall Street Journal<sup>1</sup>

 The Need for Change: There are many areas of opportunity to improve healthcare in Kentucky



Fourth highest mortality rate for heart disease in the US



**Highest rate of smoking** in the US



The **prevalence of obesity increased** from 30.4% to 31.3% in 2013

**44**th

Premature Death

45<sup>th</sup>

All Health Outcomes

49th

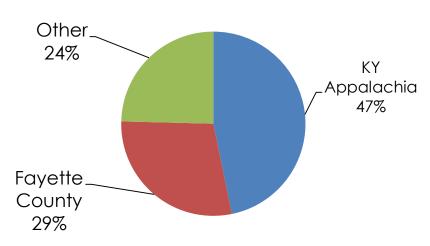
Number of days a person could not perform work due to physical health issues

50<sup>th</sup>

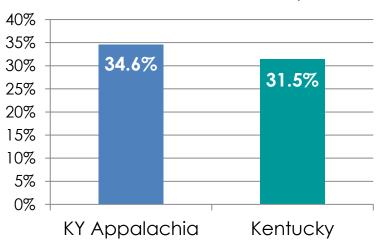
Smoking and Cancer Deaths



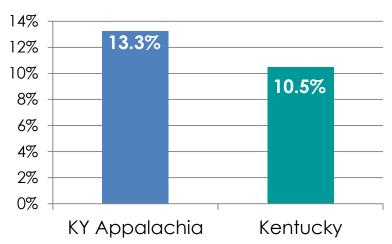
#### FY15 UKHC Inpatient Cases



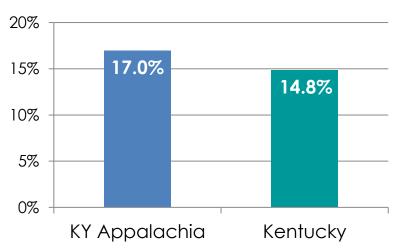
Prevalence of Obesity

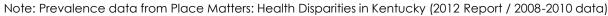


#### Prevalence of Diabetes



#### Prevalence of Asthma







 Inflection Point for Kentucky: Changes in the national market and within the Commonwealth have created a major inflection point in healthcare delivery in Kentucky



National trends in healthcare will shift Kentucky's focus from isolated illness and injury care to coordinated, comprehensive care and improved outcomes

- Kentucky needs a statewide health network or collaborative to shape the future
- Focus will shift to improving health outcomes and rationalizing not rationing care
- Care must be affordable, accessible, coordinated, efficient, and high quality



Acute Care Partnerships: Selected Strategy
 UKHC could be a catalyst to pursue a collaborative in the
 Commonwealth in order to gain scale and prepare for population
 health

**Expand UKHC's presence across Kentucky and beyond** to reach patients near their homes and rationalize care across the region ...

...by collaborating with **health systems** to reduce costs and increase efficiency...

...and position for population health by building a **partnership network that reaches five million lives**...

...and by partnering with **smaller community hospitals** in order to deliver community care close to home and provide seamless complex care at the quaternary academic hub



As providers seek scale and efficiency, organizations are utilizing an array of partnership structuring options

|         |       |       | A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
|---------|-------|-------|---|
| Spectri | im of | Intan | ration                                  |
| Opecu   |       | шисч  | ıatıvı                                  |
|         |       |       |   |

Collaboration / Deal **Joint** Capital Merger of **Full Asset** Construct **Partner Joint Equals Joint Network Operating** Merger / Affiliation / Venture Venture **Acquisition** Agreement Management Loose affiliation Establish / Create new Purchase or **Example** Create a new Description of facilities investment acquire investment merge assets and jointly vehicle vehicle Goal Example: operate Cost savings **Partners Partners** facilities opportunities, contribute contribute data sharing for operations cash, assets population health, and/or capital and/or quality initiatives, operations care coordination, etc.

 Leading Healthcare Organizations are Responding by Forming Collaboratives



# ASPIRUS Aurora Health Care bellin health GUNDERSEN

Marshfield Clinic

PROHEATH CARE THE DASCARE WHealth



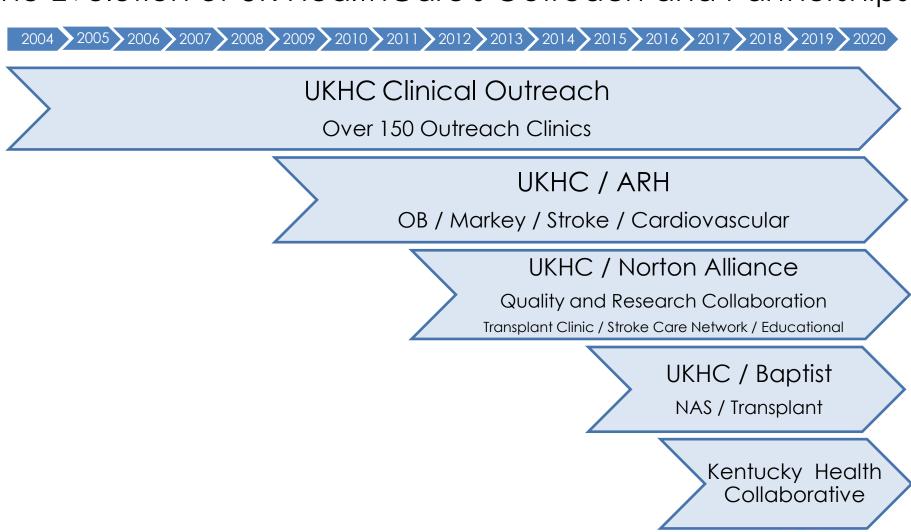


• Most of these state-wide collaboratives structure their programs and services around the **Triple Aim**, which aligns with UK HealthCare's strategic plan





#### The Evolution of UK HealthCare's Outreach and Partnerships



#### Mission of the Proposed Kentucky Health Collaborative

The purpose of the Kentucky Health Collaborative is to be a state-wide collaborative of leading healthcare providers and systems that serves as a model for quality, safety, access, coordination, effectiveness, and efficiency of care and the advancement of benchmark clinical services, education, and research through innovative collaborative initiatives.













Appalachian Regional Healthcare

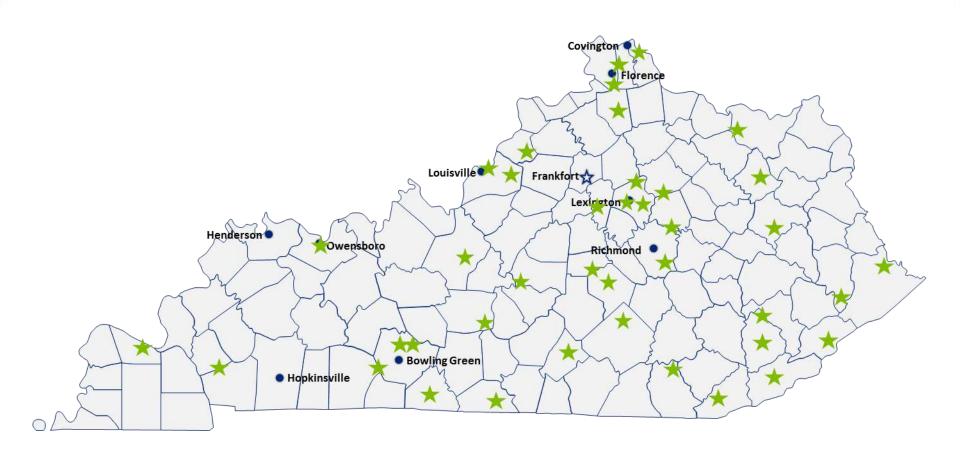














#### Next Steps:

- Finalize Business Structure, Governance Structure and Capitalization Terms and meeting schedule
- A general announcement will be made January 27<sup>™</sup>
  regarding the formation of the collaborative and the hiring of
  an executive director
- Collaborate with group to launch round table approach to organize initiative planning teams



Initial Priorities Identified by Potential Members



Joint Purchased Services and Supply Chain



Improve Care Access, Coordination and Care Transitions while Supporting Longer Term Workforce Development / Training



Developing Cancer Prevention, Control Activity, and other Health Promotion Efforts



Population Health Information Technology





In partnering with Cincinnati Children's, UK HealthCare will be collaborating with one of the top three children's hospitals in the country and a Top 10 pediatric heart care program.

#caring4kidshearts







#### Integrated Pediatric Heart Care









**Post-Acute Care Partnerships:** Improve outcomes and reduce wait times for post-acute care by partnering with local and regional facilities

Improve care delivery and virtually expand acute care capacity by moving patients to more appropriate settings as quickly as health status warrants...

...by **creating access to inpatient rehab beds** in conjunction with local providers...

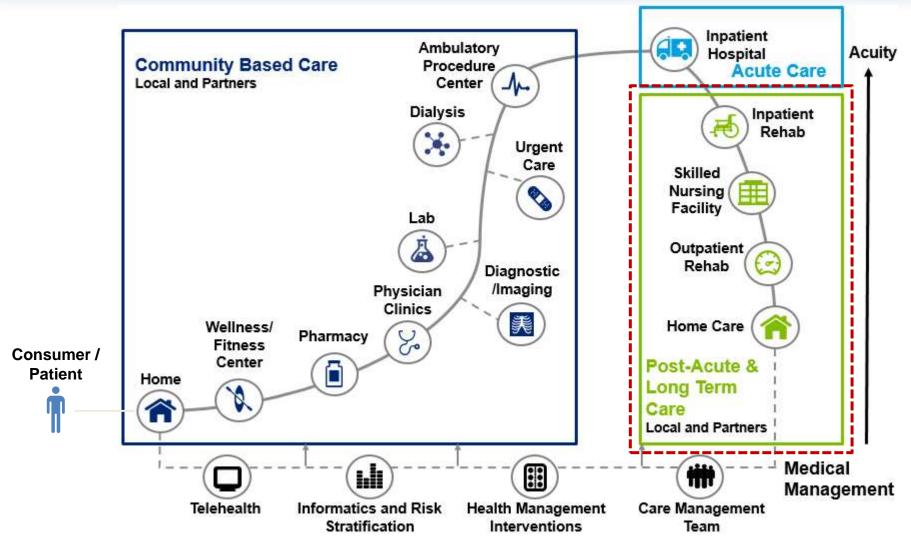
...and improving UKHC's discharge planning processes to improve outcomes and reduce costs

...and **developing an integrated post-acute care network** across Kentucky for UKHC patients leading to improved outcomes and efficiency indicated by a LOS Index to 1.0 or less



#### STRENGTHEN PARTNERSHIP NETWORKS

#### **Post-Acute Care**



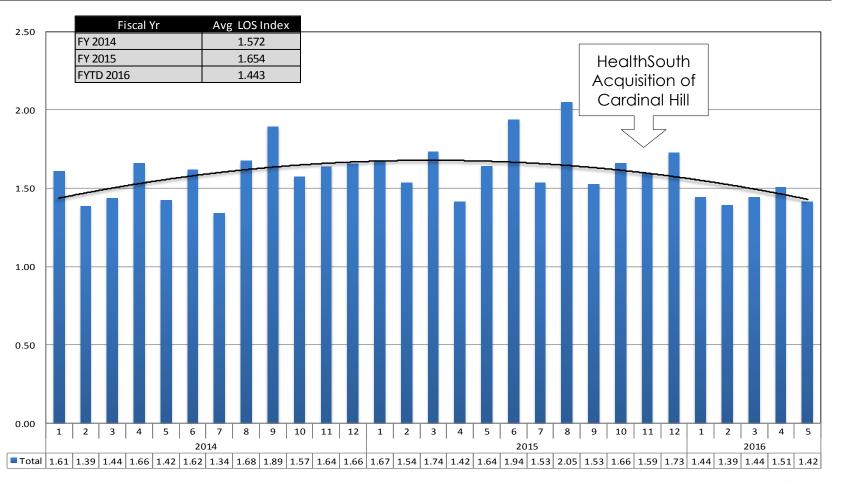
Source: Derived from Sg2 Care Continuum



#### UNIVERSITY OF KENTUCKY HEALTHCARE CHANDLER & GOOD SAMARITAN HOSPITALS

#### **INPATIENTS DISCHARGED TO REHAB - LOS INDEX TREND**

Fiscal Year-to-Date through November 30, 2015



- Established Post-Acute Care Partnerships
  - Cardinal Hill / HealthSouth Rehabilitation Hospital
  - Stepworks Recovery Center and Recovery Works Programs
  - Appalachian Regional Healthcare and LifePoint Health Swing Bed Program
  - Skilled Nursing Facility Preferred Provider Network
  - Kentucky Appalachian Transitions Services (KATS) Program



# STRENGTHEN PARTNERSHIP NETWORKS **Primary Care**

#### **Primary Care Partnerships**

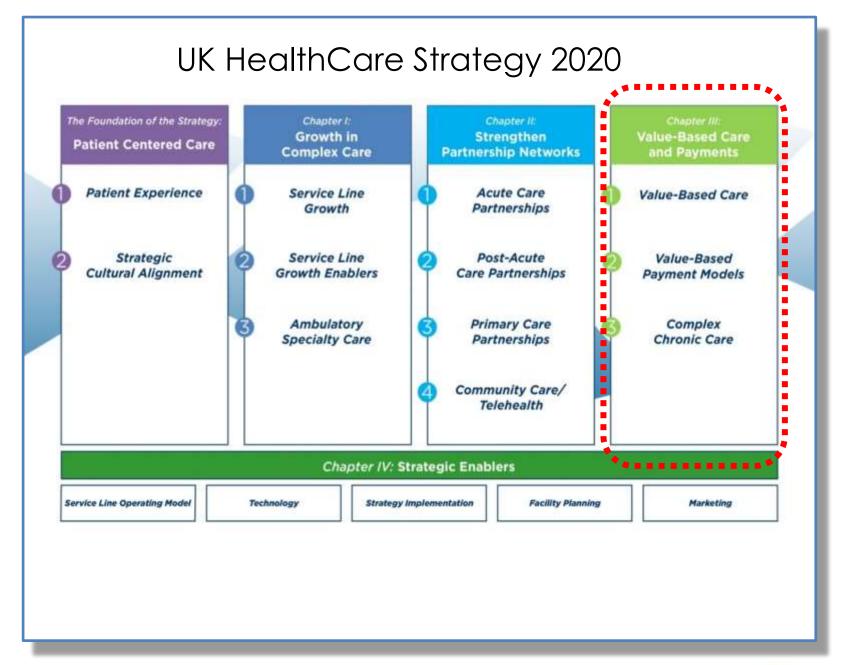
 As the health care system continues to evolve, it will be critical for UK HealthCare to have the appropriate sized primary care network either through partnering with existing providers or growing its existing practices.



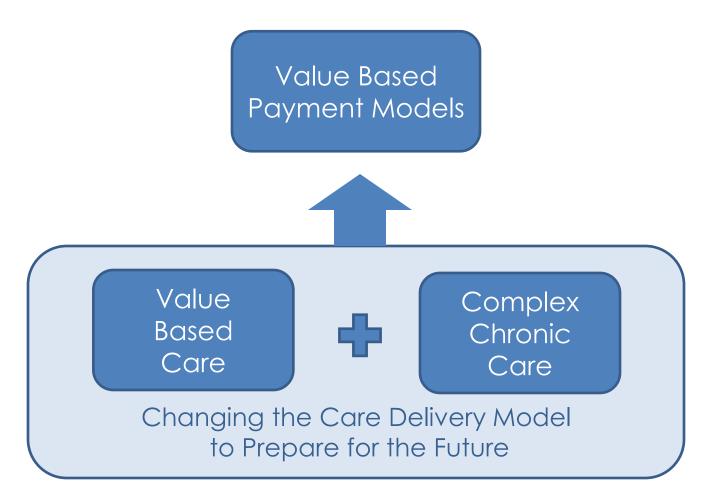
# STRENGTHEN PARTNERSHIP NETWORKS Telehealth / Community Care

- Telehealth was first established at UKHC in 1995 and had expanded to over 40 healthcare clinics by 1999
- In 2000, all payors began to reimburse providers for clinical visits completed via telehealth
- Telehealth gets the right care to the right people at the right time in the right place at the right cost
- The program conducted less than 100 clinical encounters in 1996 and in 2015 reached over 4,700 patients in over 23 medical specialty services





# VALUE-BASED CARE AND PAYMENTS Value-Based Payment Models





## VALUE-BASED CARE AND PAYMENTS Value-Based Care

#### **UK OptimalCare**

Goal: Optimize patient care through the elimination of unnecessary variation

| - Types of Variation -  |  |  |  |
|---|--|--|--|
| Necessary   | Unnecessary  |  |  |
| <ul> <li>Patient factors</li> <li>Uncontrollable extrinsic forces</li> <li>Negotiated patient preference</li> </ul> | <ul> <li>Variable application of evidence-based practice</li> <li>Local clinical culture lacking best practice mindset</li> <li>Physician, nurse or other provider preference (style, habit, recency bias)</li> <li>Convenience (hospital/provider centered)</li> <li>External pressure (reimbursement, patient preference, etc.)</li> </ul> |  |  |

### VALUE-BASED CARE AND PAYMENTS Value-Based Care

#### UK OptimalCare Support Group Members

- Bernie Boulanger Chair
- Sue Durachta (Ambulatory)
- Byron Gabbard (Finance)
- Gary Johnson (Pharmacy)
- Lorra Miracle (Supply Chain)
- Cecilia Page (CIO)
- Carol Steltenkamp (СМІО)
- Colleen Swartz (CNE)
- Mark Williams (CTLO)

#### **Functions**

 Identify opportunities for improving value delivery.

Value = (Quality + Service + Access) / Cost

- Prioritize opportunities
- Engage and support
   OptimalCare Teams in identifying practice gaps and barriers
- Allocate resources for OptimalCare teams to ensure success
- Facilitate implementation and measurement

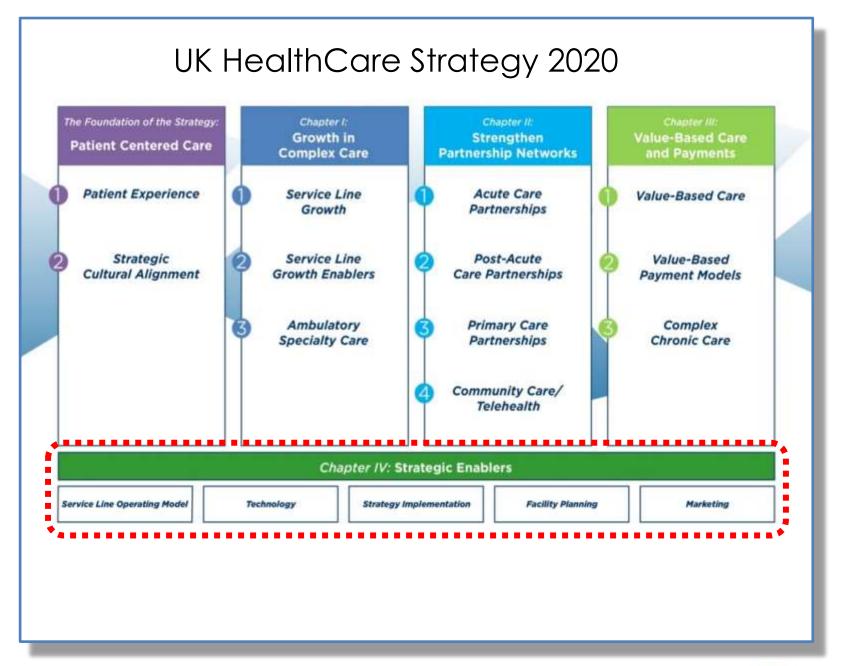


### VALUE-BASED CARE AND PAYMENTS Value-Based Care

#### **UK OptimalCare: Achievements**

- Infant Bronchiolitis
  - Dr. Jeff Bennett
- Pulmonary Embolism
  - Dr. George Davis, Dr. Susan Smyth
     & Dr. E. Xenos
- Concussion
  - Dr. Dan Han







## STRATEGIC ENABLERS Strategy Implementation



Enterprise Strategy Office created and fully staffed



Communication cascade has been deployed to inform and engage all team members of UK HealthCare regarding the strategic plan and their role in the implementation



Priority setting and decision-making process has been developed to manage strategic initiatives



Implementation progress is being tracked and communicated to Executive Leadership



# STRATEGIC ENABLERS *Marketing*

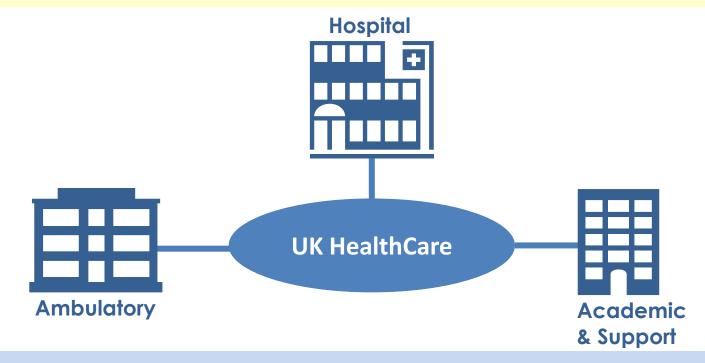
| Accomplishments To Date   | Next Steps   |
|---|--|
| Significant growth in <b>AWARENESS</b> of UKHC brand name   | Increase <b>UNDERSTANDING</b> of what the UKHC brand is and what makes it <b>DIFFERENT</b>                         |
| Significant growth, especially as it relates to  HOSPITAL TO HOSPITAL TRANSFER  and outreach partnerships | Drive UKHC as a choice among <b>CONSUMERS</b>  |
| Growth of <b>SUB-BRANDS LIKE MARKEY AND GILL</b> as standalone brands                                     | CLARIFY and increase the CONNECTION between UKHC masterbrand and sub brands like Markey & Gill                     |
| Launch of FIRST-EVER BRAND CAMPAIGNS  | Launch of new brand campaign that underscores our <b>DIFFERENTIATORS</b> as a provider of <b>ADVANCED MEDICINE</b> |
| Provided <b>STRONG TACTICAL SUPPORT</b> to the enterprise through support materials                       | Position marketing as a STRATEGIC ENABLER for enterprise   |
| Raise profile of UKHC among key stakeholders  | Raise esteem and reputation of UKHC nationally, regionally and locally   |



- Electronic Health Record: An enterprise foundation necessary for an integrated, patient-centric, point of care system – Strategic opportunities for improvement developed by June 30, 2016
- Enterprise Analytics and Data Warehouse: An enterprise foundation necessary for meeting analytics and data requirements for a patient-centered <u>system of care</u>
- Enterprise Integration and Interoperability: An enterprise foundation necessary for enabling interoperability and data sharing internally and externally to UKHC



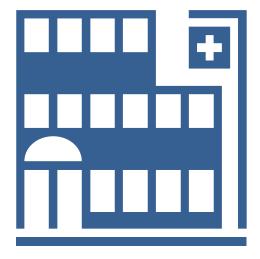
# Facilities development will continue into the foreseeable future as we both renew and expand to meet the demand for our services



Facilities have and will continue to be developed in a phased approach



#### **Hospital Facilities**





## Chandler Hospital - Completed

| Phase       | Scope  | Square<br>Feet of<br>Phase | Cost of<br>Phase | Cumulative<br>Project Cost | Cumulative<br>% SF<br>Finished |
|-------------|--|----------------------------|------------------|----------------------------|--------------------------------|
| Phase<br>1A | 1.24M square foot structure; two patient floors, ED, lobby, parking garage; infrastructure, auditorium, chapel and related support space | 560,000                    | \$532.3M         | \$532.3M                   | 47%                            |
| Phase<br>1B | Operating rooms, PACU, central sterile and related support space   | 95,800                     | \$37.7M          | \$570.0M                   | 55%                            |
| Phase<br>1C | Data Center and related support space  | 4,500                      | \$5.6M           | \$575.6M                   | 55%                            |
| Phase<br>1D | One patient floor and pharmacy project   | 73,500                     | \$31.5M          | \$607.1M                   | 61%                            |
| Phase<br>1E | Clinical Decision Unit (OBS unit)  | 9,000                      | \$6.0M           | \$613.1M                   | 62%                            |



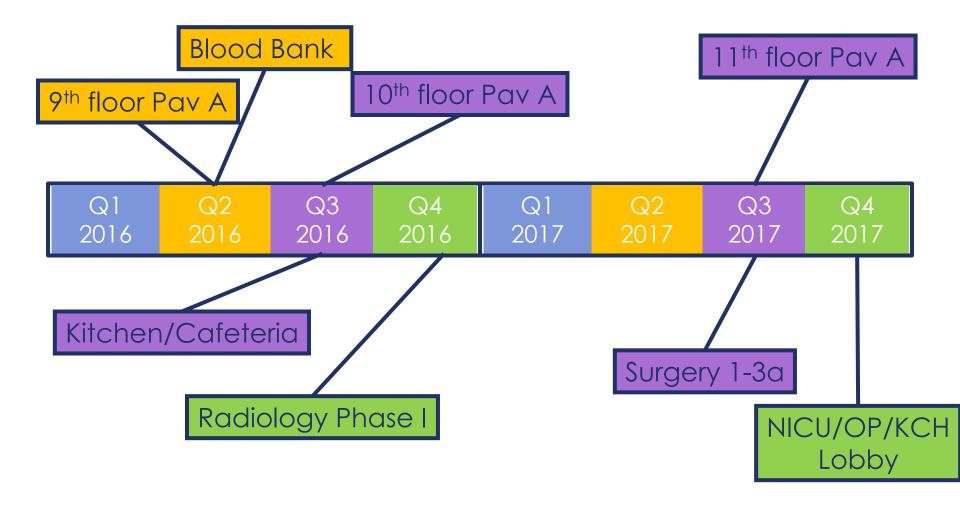
## Chandler Hospital – Construction

| P | hase         | Scope  | Square<br>Feet of<br>Phase* | Cost of<br>Phase | Cumulative<br>Project<br>Cost | Cumulative<br>% SF<br>Finished* |
|---|--------------|--|-----------------------------|------------------|-------------------------------|---------------------------------|
|   | hase<br>F/1G | -9th Floor -10th Floor -Kitchen, Cafeteria -Radiology Phase I (MRI/CT/Ultrasound) hyperbaric & Eye Consult -NICU, KCH Entry, OP Treatment and Sedation -ORs and support space, -11th Floor -Blood Bank, PT/OT/RT | 266,040                     | \$262.0M         | \$875.1M                      | 81%                             |



<sup>\*</sup>Square footage fit up related to Pav A facility only (does not account for Pav HA/H associated components of projects)

## Chandler Hospital – Construction Timeline





# STRATEGIC ENABLERS Facility Planning

## Chandler Hospital – Future

| Future Fit-up                    | Pavilion | Est Cost* | Result   |
|----------------------------------|----------|-----------|--|
| Radiology Phase 2                | Α        | \$11.3M   | Completes Radiology in Pav A   |
| Patient Floor 5                  | Α        | \$37M     | Continues with fit up of patient rooms in Pav A  |
| Patient Floor 12                 | Α        | \$37M     | Completes the fit up of patient rooms in Pav A   |
| Pav A PACU (3b & 4)              | Α        | \$8.1M    | Completes fit up of Pav A PACU   |
| Pav A ORs (phase 5)              | Α        | \$16.4M   | Completes fit up of Pav A ORs  |
| Birthing Center                  | Н & НА   | \$22.0M^  | Provides long term birthing program best practice  |
| CDU Relocation                   | Н        | \$6M^     | Provide consolidated CDU   |
| Interventional Services<br>Study | A & G    | \$35.37M^ | Relocates interventional services to Pav A and provides new expanded location for Endoscopy        |
| Dialysis/Pheresis Study          | Н        | \$2.5M^   | Provides a long term location centrally located to Pavilion A and B for Dialysis/Pheresis services |
| Office Support                   | A/H      | \$10.1M~  | Completes fit up of Pav A support services space and others within Pav H                           |
| Garage Extension                 | n/a      | \$35M     | Provide additional 1000-1200 parking spaces  |

<sup>\*</sup>estimates to be revised based on updated master plan ^does not include FFE budget numbers

~area will be less than original estimate if less complex fit up



## Chandler Hospital – Future

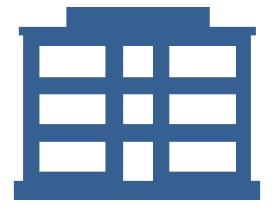
| Future Fit-up                       | Pavilion | Est Cost* | Result  |
|-------------------------------------|----------|-----------|---|
| Hospital Laboratory<br>Relocation   | Н        | \$45.6M   | Relocates laboratory allowing for the floor to be retrofitted for PICU  |
| Pediatric Progressive care and PICU | НА       | \$21.7M   | Completes move of Pediatrics to space consistent with current standards   |
| Heliport                            | Α        | \$2.1M    | Adds 2 heliports to Pav A   |
| Upgrade H 7&8                       | Н        | \$15.0M   | Interim solution for Pav H beds or office/support (eg Phase 1 infusion, hospice, sim space)                     |
| Roach upgrade                       | CC       | \$15.0M   | Interim solution for Roach beds or ambulatory space or office/support (eg Phase 1 infusion, hospice, sim space) |
| Pav H upgrade for support           | Н        | \$40.5M   | Converts Pav H long term use (envelope & Infrastructure)  |

TOTAL \$360.67M+



<sup>\*</sup>estimates to be revised based on updated master plan

#### **Ambulatory Facilities**





## Ambulatory – Recently Completed

| Project                                | Location      | Square<br>Feet | Scope   |
|--|---------------|----------------|---|
| Pain Services                          | KYC<br>South  | 6,152          | Relocation from UKGS to KY Clinic South. Provided an increase in procedural and exam room capacity in order to accommodate increased volumes.                       |
| General<br>Pediatrics                  | KYC<br>South  | 20,295         | Relocation from KY Clinic to KY Clinic South to provide space for expanded volumes in both General Pediatrics and future expansion of Specialty Pediatric Services. |
| Rheumatology<br>& Nephrology<br>Clinic | UKGS -<br>PAC | 4,865          | Relocation of services to the UKGS PAC building to provide expanded space for increased patient volumes.  |



# STRATEGIC ENABLERS Facility Planning

## Ambulatory – Construction

| Project                 | Location | Square<br>Feet         | Scope   |
|-------------------------|----------|------------------------|---|
| Ophthalmology           | Shriners | 40,000                 | Relocation of ophthalmology services and administrative support to the 4 <sup>th</sup> /5 <sup>th</sup> floor of the Shriner's building.  |
| Specialty<br>Pediatrics | KYC 2    | 8,445 (A)<br>8,176 (B) | (A) Renovation/upgrade of current specialty pediatrics clinic to current pediatric specific finishes (B) Expansion of services into vacated general pediatrics pod within the KY Clinic |
| Transplant Clinic       | KYC 3    | 16,443                 | Relocation/expansion of clinical services and administrative support in the KY Clinic   |
| Urology Clinic          | KYC 2    | 8,860                  | Renovation/expansion of clinical space within the KY Clinic   |



# STRATEGIC ENABLERS Facility Planning

## Ambulatory – Construction

| Project  | Location    | Square<br>Feet | Scope   |
|--|-------------|----------------|---|
| Dance Blue<br>Pediatric<br>Hematology<br>Oncology Clinic | Pav H       | 9,100          | Renovation and relocation to the 4 <sup>th</sup> floor in closer proximity to KCH inpatient services  |
| Orthopaedic<br>Clinic                                    | KYC 1       | 17,655         | Renovation of existing clinic in order to increase operational efficiencies and improve patient flow. |
| Community<br>Cardiology                                  | ukgs<br>mob | 6,620          | Relocation to MOB at UKGS from the Gill to allow for increased patient volumes                        |
| Radial Lounge  | Gill        | 583            | Renovate a space to provide a recovery space for increased through put of the Cath Labs recovery.     |



## Ambulatory – Preliminary Planning

| Priorities in Study      | Location       | Square Feet              | Issues Identified  |
|--------------------------|----------------|--------------------------|--|
| Medicine<br>Services     | KYC 2          | 22,000                   | High growth, space constraints   |
| UKGS MOB<br>Lab services | UKGS MOB 1     | 290+                     | Limited capacity, space constraints  |
| Turfland                 | Turfland 1 & 2 | 11,803 (A)<br>35,000 (B) | <ul><li>(A)Expansion of clinical services</li><li>(B)Administrative support space available at location.</li></ul> |

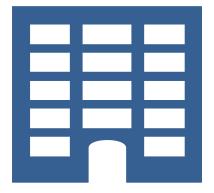


## Ambulatory – Future

| Priorities for Future<br>Study | Issues Identified   |
|--------------------------------|---|
| Oncology                       | High growth and utilization, space constraints            |
| OB/GYN                         | High growth and space constraints                         |
| Infectious Disease             | High growth and utilization                               |
| CT Surgery & Cardiology        | Consolidation within 1 location                           |
| ENT                            | Need increased flexibility and flow improvement           |
| Spine & Joint                  | Low exam room to provider ratio, limited radiology access |
| KYC Therapy                    | Space constraints   |
| Dentistry                      | Space constraints   |
| Radiology services –<br>MOB    | Limited access for Spine/Joint and other services in MOB  |



#### **Academic & Support Facilities**





#### Academic & Support Space:

- Relocated administrative functions as appropriate off campus
- Reallocating campus space to highest and best use
- Redeveloping Hospital and College of Medicine space for academic and support space



#### Considerations and Recommendations

- Next Facilities Phases -

Hospital • Ambulatory • Academic & Support



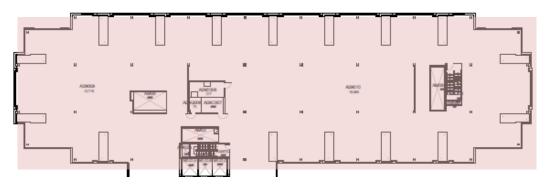
## Patient Bed Capacity Review – December Report "Key Take Away Points"

- UK HealthCare inpatient capacity is at maximum levels nearly every day
- No end in sight to the demand for our high quality, specialized services
- More than 75% of 128 new beds in Pavilion A will be consumed upon opening in CY2016
- UK HealthCare must consider additional expansion of clinical capacity to support planned Service Line growth

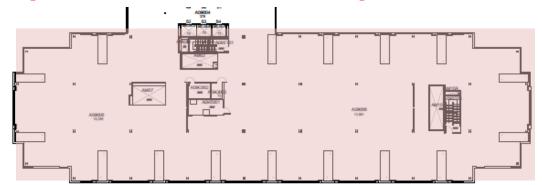


# 4

# STRATEGIC ENABLERS Facility Planning



# The existing "Transitional" patients will fill this space



#### Opening Summer 2016 64 Beds

NINTH FLOOR PLAN
PATIENT CARE FACILITY (PAVILION A)

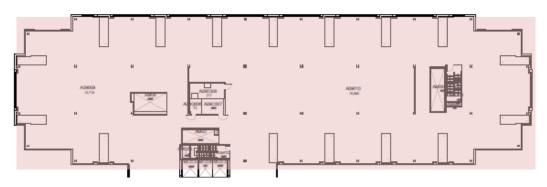




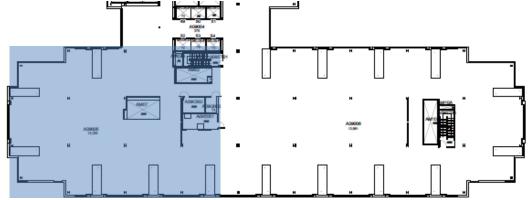


# 4

# STRATEGIC ENABLERS Facility Planning



With our maximum transitional patients and typical number of "Lost Transfers"



TENTH FLOOR PLAN
PATIENT CARE FACILITY (PAVILION A)

68,164 Gross Square Ft.

Pavilion A 10<sup>th</sup> floor Opening CY2016 Total of 64 Beds





## STRATEGIC ENABLERS Facility Planning

#### Patient Floors

- Floors 5 and 12 of Pavilion A remain "shelled"
- This creates total incremental inpatient capacity of 128 beds



# STRATEGIC ENABLERS Facility Planning

## Additional Considerations to Support Future Growth

- Interventional Services (Angiography and Cardiac Catheterization Labs)
- Diagnostic and Therapeutic Endoscopy Services
- Dialysis / Pheresis Services
- Radiology "Phase 2"
- Vascular and Pulmonary Function Testing



## Additional Facility Considerations to Support Service Line Growth

- An Additional 64 Inpatient Beds
- OB/GYN Facility Renovations
- Clinical Decision Unit Re-location
- Expansion of Surgical Services
- Ambulatory Care Capacity



#### Recommendations

- Complete the fit up of Fifth Floor of in Pavilion A (FCR at February Board Meeting - \$37M)
- Initiate project to provide Radiology services to Spine/Joint program and other service in MOB (FCR at February Board Meeting - \$1.5M)
- Initiate project to upgrade / renovate facilities in the College of Medicine to faculty office and support space (FCR at February Board Meeting - \$5M)
- UKHC Leadership will propose additional facility investments in May/June



# Financial Forecast & the Strategic Plan



## Financial Planning Framework

- Review current financial drivers and results
  - Operating Cost Changes
  - Activity Forecast
  - Reimbursement / Payment Trends
- Overlay Current Operations with Strategic Plan Impacts
  - Strategic Investments
    - Programmatic
    - Faculty
    - Operational
  - Strategic Capital Investments
    - Facilities
    - Infrastructure
    - Information Technology



#### Financial Plan/Model Drivers

#### **Clinical and Operation Requirements**

- Continued high patient demand for services
- Workforce needs (faculty and staff)
- Information technology data warehouse (5-year assumption = \$37.6M)
- Strategic plan investments (5-year assumption = \$25M)
- Research and academic support (5-year assumption = \$50M)

#### **UK HealthCare Strategic Capital and Investment Needs**

- Approved projects, infrastructure and capital expenditures, are estimated to be \$628 million for FY2016 through FY2020
  - Facilities Infrastructure = \$24.4M
  - Ambulatory = \$25.4M

- Chandler Hospital = \$226.3M
- Routine Equipment & Renovations = \$352.0M
- The potential need for \$600 to \$725 million of additional capital expenditure for facilities, equipment and information technology is also forecasted over the next 5 to 7 years
  - Ambulatory = \$50.0M
  - Information Technology = \$250-\$300M
- Chandler Hospital = \$320-\$360M
- Equipment = \$7.0M



#### Financial Plan/Model Drivers

#### **Increasing Capital Access Standards**

- Maintenance of UK HealthCare's current level of capital access (essentially an "A" rating) requires strong performance and liquidity
- Benefits of a strong UK HealthCare to the broader UK system (especially in terms of liquidity) are explicit and material

#### **Market-Driven Forces / Sensitivities**

- Insurance market transformation, including increased consumerism
- Constriction of Medicare, Medicaid and commercial reimbursement
- Downward pressure on inpatient utilization; mixed changes in outpatient services



## Financial Plan/Model Projections

| <b>Key Utilization Statistics</b> |  |  |  |  |  |
|-----------------------------------|--|--|--|--|--|
| Inpatient Discharges              |  |  |  |  |  |
| Inpatient Days                    |  |  |  |  |  |
| Average Length of Stay            |  |  |  |  |  |
| Average Daily Census              |  |  |  |  |  |
| Outpatient Visits                 |  |  |  |  |  |
| Number of Licensed Beds           |  |  |  |  |  |
| Occupancy %                       |  |  |  |  |  |

| 2016      | 2017      | 2018      | 2019      | 2020      |
|-----------|-----------|-----------|-----------|-----------|
| 37,333    | 38,778    | 40,534    | 42,000    | 42,936    |
| 250,151   | 257,839   | 267,674   | 275,444   | 280,006   |
| 6.70      | 6.65      | 6.60      | 6.56      | 6.52      |
| 685       | 706       | 733       | 755       | 767       |
| 1,428,967 | 1,506,669 | 1,574,666 | 1,640,910 | 1,686,546 |
| 855       | 901       | 901       | 901       | 901       |
| 80.16%    | 78.40%    | 81.39%    | 83.76%    | 85.14%    |

Note: 475 Transfers added in FY2018 in addition to 1% per year growth assumption



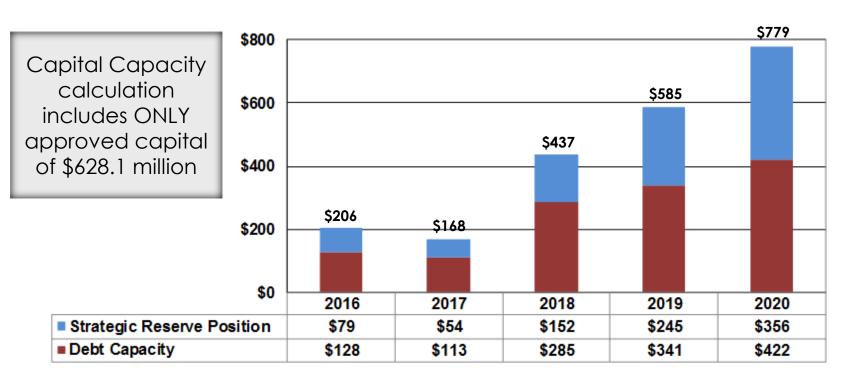
## Financial Plan/Model Projections

| Ratio / Statistic          | Moody's | S&P   | Historical     |               |                | Projected     |                |                |                |         |
|----------------------------|---------|-------|----------------|---------------|----------------|---------------|----------------|----------------|----------------|---------|
| Ratio / Statistic          | A2      | Α     | 2013           | 2014          | 2015           | 2016          | 2017           | 2018           | 2019           | 2020    |
| O EDIDA                    | 004.0   |       | <b>#</b> 400.0 | <b>0440.7</b> | <b>CO 44 4</b> | <b>#</b> 0440 | <b>#</b> 400.0 | <b>#</b> 000 4 | <b>#</b> 000 0 | #000 O  |
| Operating EBIDA            | \$61.2  |       | \$100.8        | \$143.7       | \$241.4        | \$214.3       | \$169.8        | \$200.1        | \$223.0        | \$233.0 |
| Cash Flow (Net Inc + Depr) | \$81.9  |       | \$115.2        | \$173.2       | \$245.6        | \$209.6       | \$174.8        | \$206.6        | \$232.3        | \$245.9 |
| Total Debt                 | \$205.1 |       | \$457.7        | \$423.6       | \$520.6        | \$496.4       | \$471.6        | \$445.9        | \$423.0        | \$399.8 |
| Total Debt Service         | \$15.9  |       |                |               |                | \$45.1        | \$45.2         | \$45.1         | \$41.4         | \$40.9  |
| Profitability              |         |       |                |               |                |               |                |                |                |         |
| Operating Margin           | 3.0%    | 2.9%  | 3.1%           | 6.6%          | 13.3%          | 9.5%          | 5.6%           | 7.1%           | 7.9%           | 8.0%    |
| Operating EBIDA Margin     | 10.6%   | 9.1%  | 10.6%          | 12.9%         | 18.7%          | 15.3%         | 11.4%          | 12.7%          | 13.4%          | 13.5%   |
| Debt Position              |         |       |                |               |                |               |                |                |                |         |
| MADS Coverage (x)          | 5.4     | 4.0   | 3.1            | 4.5           | 6.1            | 5.4           | 4.6            | 5.3            | 5.9            | 6.2     |
| <u>Liquidity</u>           |         |       |                |               |                |               |                |                |                |         |
| Days Cash on Hand (days)   | 235.6   | 196.4 | 118.0          | 137.4         | 189.4          | 193.8         | 178.3          | 190.3          | 213.5          | 238.9   |



## Capital Capacity

#### Net Capital Capacity (\$ Millions)



Note (A): Strategic Reserve Position calculated as surplus (deficit) of actual days cash on hand versus 170 days cash on hand target Note (B): Debt capacity assumes MADS coverage target of 4.0 (weighted 50%), debt-to-cap target of 40% (weighted 10%), and cash-to-debt target of 125% (weighted 40%); debt capacity targets are in line with 2015 Not for profit Healthcare rating agency medians for Moody's "A2" and S&P "A" categories



## Financial Plan Sensitivity and Risk



## Risk Profile Matrix / Management

|                       |                    |           | Strategic Placemat – Potential Impacts |                           |                                       |                                   |                       |  |  |
|-----------------------|--------------------|-----------|--|---------------------------|---------------------------------------|-----------------------------------|-----------------------|--|--|
| Risk                  | Control            | Magnitude | Patient<br>Centered Care               | Growth in<br>Complex Care | Strengthen<br>Partnership<br>Networks | Value-Based<br>Care &<br>Payments | Strategic<br>Enablers |  |  |
| Medicaid              | State              |           |  |                           |                                       |                                   |                       |  |  |
| Managed Care<br>Rates | Payors             |           |  |                           |                                       |                                   |                       |  |  |
| IP Volumes            | Market             |           |  |                           |                                       |                                   |                       |  |  |
| OP Volumes            | Market             |           |  |                           |                                       |                                   |                       |  |  |
| ALOS                  | U.K.<br>HealthCare |           |  |                           |                                       |                                   |                       |  |  |
| Non-Labor             | UK<br>HealthCare   |           |  |                           |                                       |                                   |                       |  |  |
| Labor<br>Productivity | UK<br>HealthCare   |           |  |                           |                                       |                                   |                       |  |  |
| Capital Need          | UK<br>HealthCare   |           |  |                           |                                       |                                   |                       |  |  |
| Operating<br>Support  | UK<br>HealthCare   |           |  |                           |                                       |                                   |                       |  |  |







#### Impact of Changes

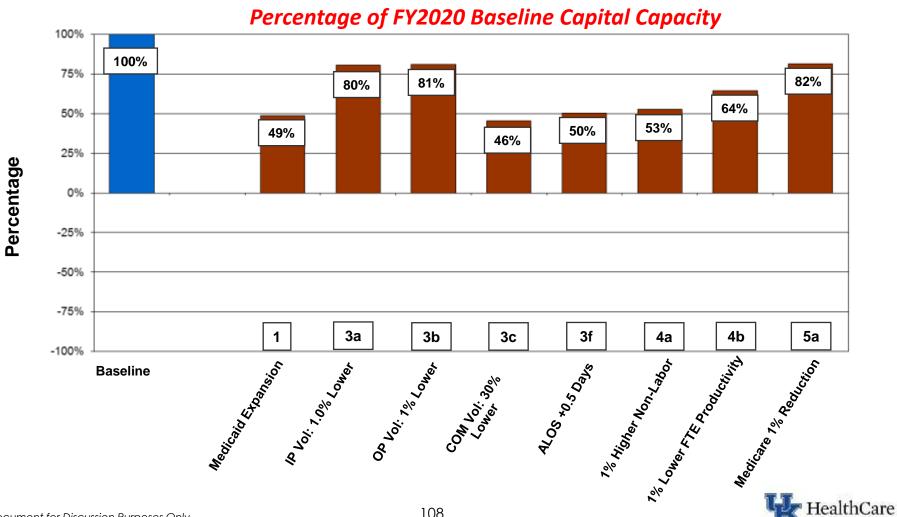
# Testing the Impact of Changes to Key Assumptions on UK HealthCare's Capital Capacity is a Vital Management Tool

- The only thing we can be sure of is that the assumptions are "wrong" as soon as they are defined
- Risk associated with key assumptions was tested through sensitivity analysis and development of alternative operating scenarios
- Analysis was focused on areas associated with the highest levels of potential volatility and uncertainty, including:
  - Medicare, Medicaid, and managed care and commercial insurer payment rates
  - Future status of special programs (e.g., Medicaid expansion and disproportionate share)
  - Future inpatient volume, outpatient volume, and length of stay trends
- Sensitivity impact was quantified in terms of UK HealthCare capital capacity (i.e., its ability to generate the capital necessary to pursue incremental strategic initiatives)



#### Sensitivity Analysis Results

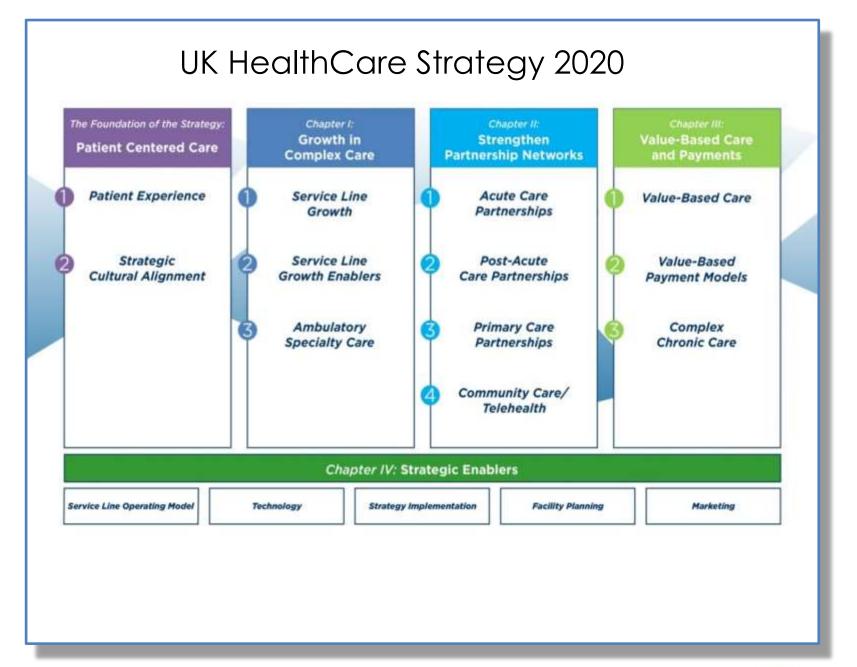
Medicaid Expansion, COM Volume Growth, and Managed Care Rates are Key Areas of Risk



#### **Baseline Conclusions**

- The UK HealthCare baseline financial plan projects that the organization will be well positioned to make additional investments in operations, strategy and capital
- Based on the baseline projections, UK HealthCare will regenerate necessary capital capacity available to support future strategic initiatives and investments
- Sensitivity analysis indicates that future risk for UK HealthCare is focused in three major areas over which UK HealthCare has the least control:
  - Medicaid Expansion
  - Future Volume
  - Managed Care Rates
- Vigilant cost, clinical care management and successful strategic investments will support the systems continued financial requirements





#### It's a Marathon, not a Sprint

#### **Next Milestones**

- Establish the Collaborative
- Continue with Next Phase of Facility Plan
- Plan Next Part of Race Course
  - Medical Management



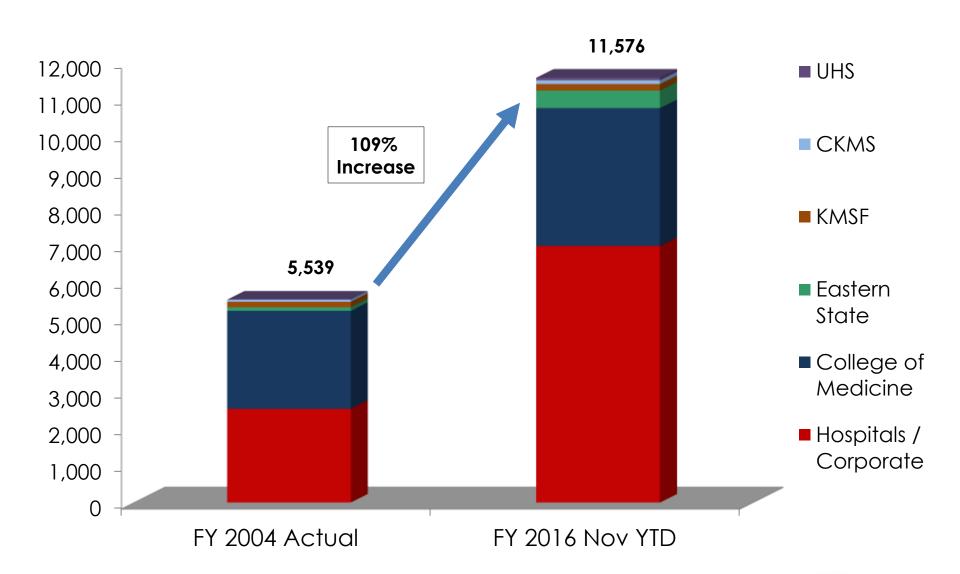


#### What We Must Be

- The preeminent academic medical center serving Kentucky and beyond – in all three missions
- 2. The provider of accessible advanced subspecialty care for Kentucky and beyond
- 3. The Academic Medical Center serving an extensive collaborative of healthcare providers across the state and beyond
- 4. An Organization focused on appropriate care in the appropriate setting community first, ambulatory second, hospital third
- 5. An organization operating at the highest levels of quality, safety, efficiency, patient satisfaction and employee/faculty engagement
- The fundamental support of UK's biomedical research and educational efforts
- 7. A major economic driver for the Bluegrass and beyond



#### Economic Impact - FTEs





#### Economic Impact – Personnel Expense

