

## Vision for Growth in Urology: Creating a Center of Excellence

Matthew Rutter, M.D.  
 Steven Selman, M.D.  
 Department of Urology

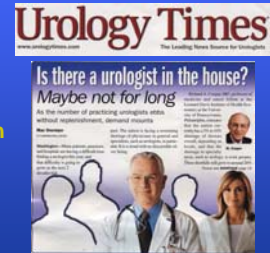


## Urology in the Next Decade

Aging Population

Aging Physician Population

Demand for Pediatrics



## Increase Demand = Need for Recruitment

UT Table 1 |

**The physician workforce by the numbers**

|  |                         |
|--|-------------------------|
| Number of U.S. citizens <65 in 2000                              | 35 million*             |
| Estimated number of U.S. citizens >65 in 2020                    | 54 million*             |
| Estimated physician supply in 2020                               | 872,000 (1,216,000**)   |
| Estimated demand for all physicians by 2020                      | 1,027,000 (1,340,000**) |
| Estimated need for all physicians by 2020                        | 1,098,000 (1,173,000**) |
| Number of physicians graduating from medical schools annually    | 18,000*                 |
| Estimated number of physicians retiring annually (2000)          | 9,000*                  |
| Estimated number of physicians retiring annually (2020)          | 22,000*                 |
| Average outpatient visits per year for patients <65 years        | 2.5*                    |
| Average outpatient visits per year for patients >65 years        | 6.7*                    |
| Visitors who think there are too few doctors today (%)           | 60%*                    |
| Visitors who think there will be too few doctors in 10 years (%) | 60%*                    |

\* Physician Workforce Policy Guidelines for the United States (20th Report), General Practice Division, American Educational U.S., Department of Health and Human Services, January 2005.  
 \*\* Association to U.S. Society of Management Consultants on the Quality Requirements for Accreditation in Health Services and Clinical Laboratory Testing on the World of Physicians for Transformation Report No. 1, Robert Wood Johnson, Center for Health Care Studies, Association of American Medical Colleges, May 18, 2002.  
 \*http://www.aamc.org

UT Table 2 |

**The urology workforce by the numbers**

|   |                |
|---|----------------|
| Number of active urologists (2000)                              | 9,864          |
| Number of people per urologist (2000)                           | 32,200         |
| Estimated percentage of urologists who are women                | 3.94% (388)    |
| Estimated percentage of urologists age 55 years and older       | 47.2% (4,657)  |
| Estimated percentage of urologists with foreign medical degrees | 16.29% (1,607) |
| Estimated percentage increase in urologists, 1995 to 2004       | 7.2%           |

Source: Adapted from Physician Workforce and a Work Book, Center for Workforce Studies, Association of American Medical Colleges, August 2004.



## Aging Population

- Increasing volumes
  - Malignancy
  - Voiding Dysfunction
  - Sexual Dysfunction
- Increased Demand
  - Centers of Excellence
  - Faculty Recruitment
  - Female urology
  - Sexual dysfunction
  - Urologic Oncology
- Acquire new technology
- Expand current services



## Urology in the Next Decade

- Minimally invasive techniques
  - Cancer
  - Stones
  - Incontinence
  - Kidney donation/transplant
- Outpatient oriented
  - Office based therapies
  - Outpatient surgery center



## Minimally Invasive

- World Class Laparoscopy
  - Benign and malignant disease
- Regionally recognized for percutaneous renal surgery
- Addition of Robotic Surgery
  - Quickly becoming standard of care for Prostate cancer
- Marketing



## Robot Assisted Laparoscopic Surgery

- daVinci S
  - 3d vision
  - 3 endowrists with 7° of freedom
  - Improved dissection
  - Improved suturing
  - Decreased operative times
  - Decreased hospital stay



## da Vinci

- Urologic applications
  - Radical prostatectomy
  - Radical cystectomy
  - Pyeloplasty
  - Partial nephrectomy
  - Adrenalectomy
  - Nephrectomy
- Other
  - Hysterectomy
  - Sacrocolpopexy
  - Myomectomy
  - Mitral valve
  - Cardiac bypass
  - Gastric bypass
  - Nissen fundoplication



### da Vinci Prostatectomy

- 90,000 radical prostatectomies per year
- 5 years ago 4% done with da Vinci
- Last year 40% done with da Vinci
- Projections for over 60% by end of 2007
- Equivalent results-
  - Cancer control
  - Erectile function
  - Incontinence
  - Quicker recovery
- New standard of care by end of 2007?



### da Vinci

- Gynecology adopting at a faster rate than urology
- Over 250,000 hysterectomies per year
- Approximately 15 to 20% will be done with da Vinci by the end of the year



### Importance of da Vinci

- Standard of care
- Higher quality of care
- Attract high quality students and residents
- Academic responsibility for teaching
  - Integrate required curriculum
- Expand market share
  - Center of Excellence
- Faculty recruitment and retention



### Kidney Stones

- Formalize a renal stone center
  - Largest volume of complex stones in the region
  - Develop an institutional database
  - Metabolic stone center
  - Research and development
    - Opportunity to contribute to industry



## Female Urology

- Faculty recruitment
- Center of Excellence
- State of the Art urodynamics
- Stress incontinence
  - Minimally invasive therapies
- Interstitial cystitis/pelvic pain syndromes
  - Interstim technology
- Urgency/Urges Incontinence
  - Interstim
  - botox



## Sexual Medicine/Fertility

- “Viagra Era”
  - Discussion and intervention more acceptable
- Male and Female
- Aging population
- Healthier more active
- Research possibilities
- Faculty recruitment



## Vision: Centers of Excellence

- Pediatric Center
  - Faculty recruitment
- Minimally Invasive Urology/Oncology/Stones
  - Acquire technology
    - da Vinci
    - Office based therapies
  - Stone Center
  - Faculty recruitment
- Female Urology Center
  - Faculty recruitment
- Sexual Medicine/Fertility Center
  - Faculty recruitment

