# The State of the Department 

David A. Schwartz, MD

Anschutz Medical Campus

## Departmental Vision

Improve human health by fostering the development of outstanding interdisciplinary programs in patient care, education, and research that serve the community, region, and nation


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Driving Principles:

- Outstanding patient care
- Balance growth of competing priorities
- Foster interdisciplinary programs
- Build strong partnerships
- Enhance diversity

Transparency and Accountability


## Departmental Vision

Improve human health by fostering the development of outstanding interdisciplinary programs in patient care, education, and research that serve the community, region, and nation

Strategy and Tactics
Driving Principles:

- Outstanding patient care
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Transparency and Accountability


## The State of the Department

- Accomplishments, Challenges, and Opportunities
$\square$ Clinical
$\square$ Education and Training
- Research
- Your Role in Our Future


## Clinical Enterprise

"Our heart, soul, and sustenance"


## Medicine Inpatient Volumes



## Medicine Inpatient Volumes



## Work RVUs



## Clinical Revenue



## Clinical FTEs




## Faculty Recruitment



## Clinical Programs and Patient Care

Strategy: Expand and enhance clinical areas of excellence that consequently drive the educational and research enterprise

Clinical
Programs of
Excellence


## Clinical Programs and Patient Care

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Education/


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Education/


## Clinical Programs and Patient Care

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## Personalized or Precision Medicine



# Center for Biomedical Informatics and Personalized Medicine 

## DOM Division ------

- Academic home
- SOMIDOM supported
- $1^{\circ}$ faculty ( $\mathrm{N}=5-7$ )
- $2^{\circ}$ faculty ( $\mathrm{N}=\mathbf{1 0 - 2 0}$ )
- Clinical service


## Clinical Arm

## Infrastructure

- Data warehouse (CREW)
- Informatics core
- Genomics facility
- Existing biorepositories
- Graduate training prgm
- DNA bank
- CLIA certified lab
- Disease-specific assays


## Challenges: Rapid Expansion of the Clinical Enterprise

Strategy: Deliver outstanding care while balancing our priorities

## Tactics:

- Increase the clinical FTE to meet the need
- Balance clinical program development with innovative academic growth
- Minimize medical errors - quality assurance program


## Challenges: Quality and Safety

Strategy

- Achieve superior clinical outcomes
- Engage and support providers
- Integrate these activities with educational and research opportunities


Approach

- Promote Safety Culture: Peer Review and Morbidity and Mortality
- Partner with other departments and the hospital
- Develop QI Infrastructure: Access to meaningful data through QI support


## Division-Specific Dashboards



Effectiveness and Efficiency


Patient Safety



| BMT | Nov | Dec | Jan | Feb | Mar | Apr |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| \% Summary Signed | 100.00 | 96.00 | 94.59 | 100.00 | 89.47 | 70.83 |
| Benchmark | 90.00 | 90.00 | 90.00 | 90.00 | 90.00 | 90.00 |
| 6 month average | 91.82 | 91.82 | 91.82 | 91.82 | 91.82 | 91.82 |
| \# of Discharge | 30 | 25 | 37 | 41 | 38 | 24 |
| Sianed Discharqe | 30 | 24 | 35 | 41 | 34 | 17 |

Patient Safety

| BMT | Nov | Dec | Jan | Feb | Mar | Apr |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Nov 2012 to May 2013 | 24.14 | 8.70 | 22.58 | 21.95 | 19.05 | 16.00 |
| 6 month average | 18.73 | 18.73 | 18.73 | 18.73 | 18.73 | 18.73 |
| Admission | 29 | 23 | 31 | 41 | 42 | 25 |
| Readmission | 7 | 2 | 7 | 9 | 8 | 4 |

Patient Centerdness


| BMT | Nov | Dec | Jan | Feb | Mar | Apr |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| \% rating of Always | 93.75 | 61.54 | 40.00 | 70.00 | 50.00 | 33.33 |
| Benchmark | 90.00 | 90.00 | 90.00 | 90.00 | 90.00 | 90.00 |
| 6 month average | 58.10 | 58.10 | 58.10 | 58.10 | 58.10 | 58.10 |
| \# of respondents | 8 | 7 | 5 | 5 | 2 | 3 |
| With rating of Always | 7.50 | 4.00 | 2.00 | 3.50 | 1.00 | 1.00 |

## Challenges: Incentivize Patient Care

## Strategy: Support physicians who are providing clinical care

## Data:



- Delivery of patient care is not financially profitable for Allergy, Endocrinology, Hematology, Infectious Diseases, Renal, and Rheumatology
- Annual cost to the divisions is $\approx \$ 500 \mathrm{~K}$


## Tactics:

- Partnership between UCH, UPI, and the DOM
- $\$ 800 \mathrm{~K}$ will be distributed to the 'non-procedural' divisions based on wRVUs and modest productivity goals


## Challenges: Health Care Reform

## Strategy:

- Consolidation
- Capitation
- Commodization

- Quality and Safety
- Health Outcomes
- Academic Priorities


## Tactics:

- System - 7 hospitals and 15,000 employees spanning the front range
- UCH - new tower and outpatient facilities beginning to focus on bundled payment and capitated care
- Partnership between System and SOM: transfer a \% of the bottom line profit to the SOM for academic development


## Educational and Training Programs

## "Our Jewel - Our Future"

Vision: Support highly competitive and diversified training programs that produce leaders in the practice of medicine and the discovery of new knowledge

## Department of Medicine Trainees

|  | R1 | R2 | R3 | Chief <br> Residents | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Housestaff | 67 | $\mathbf{5 0}$ | $\mathbf{5 0}$ | 5 | 172 |



## Challenge: Expanded Clinical and Educational Opportunities

Strategy: Program innovation to maintain and strengthen teaching services

## Tactics:

- Develop a Medicine-Pediatrics Training Program that will begin July, 2014
- Joe Kay (director) and Dan Reardon (associate director)
- 4 housestaff per year
- Partnership between UCH, TCH, Department of Pediatrics, and DOM


## Challenges: Career Development

Strategy: Support trainees to become leaders

## Tactics:

- Physician Scientist Training Program
- Training approach based on career goals

| Clinical |
| :--- | :--- | :--- | :--- |
| Training Tracks | Investigator $\quad$| Clinician |
| :---: |
| Educator | | Health Care |
| :---: |
| Delivery |



## Challenges: Diversity of our Trainees



## Groundbreaking Research

## "The Bridge Between Science and Medicine"



Vision: Support physicianscientists and PhDs to develop new knowledge that may ultimately improve human health


## NIH Support and Ranking



## VA Research Support



## Endowed Funds in the Department



## Departmental Research Support



## Recognition of our Accomplishments

- 32 American Society of Clinical Investigation
- 31 Association of American Physicians: Bryan Haugen and Marvin Schwarz
- 6 University Distinguished Professors - Paul Bunn
- Institute of Medicine
- Bob Schrier
- National Academy of Sciences
- Charles Dinarello


## Challenges: Support of the Research Enterprise

## Strategy: Investment now will pay off in the future

## Tactics:

- Mentorship program for junior faculty
- Retain and recruit outstanding physician-scientists and PhDs
- Establish pipeline of career development
- DREAM (DOM Research and Equity in Academic Medicine) Program
- Physician Scientist Training Program (PSTP)
- Outstanding Early Scholars Program
- Bridging Research Program
- Support interdisciplinary program development
- Celebrate our accomplishments
- DOM Research in Progress
- DOM Research Day


## Challenges: Support of the Research Enterprise

Strategy: Investment now will pay off in the future
Tactics:

- Reorient ourselves to the 'New NIH'
- Targeted research - listserv@list.nih.gov
$\square$ Limited investigator initiated science
- Constrained funding
- Diversify portfolio: VAMC, industry, foundations, philanthropy, and institutional
- Partnership between System and SOM: transfer a \% of the bottom line profit to the SOM for academic development
- Initiated discussions with the SOM to use some of these funds to support a portion of the salary for research intensive faculty in clinical departments



## Communication

## HD Department of Medicine

University of Colorado Anschutz Medical Campus

## NEWSLETTER | JUNE 2013

DOM launches Med-Peds Residency Program

## BY LSA MARSHALL



## (1) Department of Medicine

University of Colorado Anschutz Medical Campus

## NEWSLETTER | OCTOBER 2013

## The DREAM Program



Seven students ompleted their year at the University of Colorado School of Medicine
spent this past summer sperticipating in a hands-on research experience in a lab research experience in a lab
with a faculty mentor. They are part of the Department of Medicine Research and Equity in Academic Medicine experience also
known as the DREAM known as the DREAM
Program. This program, started two years ago by the Department of Medicine, led by Rob Winn, MD, is now under the direction of John Repine, MD, the Waring Professor of Medicine, Associate Dean for Student Advocacy and Director of the Webb-Waring Institute for Cancer, Aging, and Antioxidant Research. The program's objectives are twofold-to increase the number of esearch opportion those in underrepresented to expand the opportunities for those in underrepresented categories. The decrease in the number of physician-scientists as well as the lack of underrepresented physicians in proportion to the numbers of minority patients In 2002 a New England Journa of Medicine article reported that in 1983, physician-scientists represented only $4 \%$ of the 479.439 total physicians in our country. Fifteen years later, physician-scientists had dropped to only $2 \%$ of the nation's 707,032 doctors. (AAMC 2008). And a recent paper in Science (Science 2011; 333: 1015) indicates that this problem is pervasive and extends to the awarding of NIH Grants. This dramatic decrease may be attributed to the longer training period required for the physician-scientist designation, the tremendous cost of the dual training as well as the racial biases that unfortunately exist in our culture.
Additional data shows that while only $20 \%$ of the physicians in our country are from the underrepresented category, the population of minority patients continues to grow rapidly each year. The DREAM program concept of introducing medical students from the underrepresented category to the role of
research and medicine early in their career is intended to assist in filling both of these gaps. Director Repine states that even if young physicians do not chose the physicianscientist role, this exposure to medical research should make them better physicians. The DREAM program, a two-month summer opportunity, supports each student with a $\$ 3,000$ stipend from the Department of Medicine. Students submit applications and proposals which are reviewed by a selection committee and after they are chosen they choose a mentor or a specific research area At the conclusion of the summer, each student presents an overview of their work to David Schwartz, MD, chair of the Department of Medicine and Program Director John Repine, MD.

Quan Bui one of the DREAM students described his experience in this way. "The willing to teach me preall it was a great experience. There is so much camaraderie in academic medicine; I discovered that research is my calling. It affirmed my goal of being in academic medicine, this is my passion." the students, like Quan, it truly is like a dream come true!"

2013 DREAM Students \& Mentors:
Bianca Pullen-Mark Earnest, MD, PhD and Angela Sauaia, MD, PhD Brooke Bredbeck-Neda Rasouli, MD Saned Raouf-Paritosh Kaul, MD Quan Bui-Mark Geraci, MD Tuong Vi Tran-Diep N. Doan, MD, PhD Timothy Ung-Michael Graner, PhD Quocan Nguyen-Carl Bartecchi, MD

## Salary by Gender - MD Faculty



## Salary by Gender - PhD Faculty



## Academic Rank by Gender



## Enduring Partnerships with our Affiliates



## We will succeed through Your Accomplishments

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Career and Program Development

