

Physician-Scientist Workforce Working Group

INTERIM UPDATE – December 2013

David Ginsburg, MD

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Charge

- Develop approaches that can inform decisions about the development of U.S. physician-scientist biomedical workforce for a variety of positions that will advance science and promote health.
- Analyze the current composition and size of the physician-scientist biomedical workforce to understand the consequences and associated impacts of current funding policies of NIH and other analogous entities on clinicians' decisions to engage in research.
- Assess present and future needs and career opportunities available to support physician-scientist trainees in diverse biomedical research sectors. Further identify the incentives and barriers to clinicians entering and continuing to engage in scientific activities.

The committee will make recommendations for actions that NIH should take to support a sustainable and diverse clinical research infrastructure, as well as recommendations for actions needed by other relevant stakeholders.



Roster - revised

- **David Ginsburg, MD**
- **Susan Shurin, MD**
- **Sherry Mills, MD, MPH**
- **Nancy Andrews, MD, PhD**
- **Gordon R. Bernard, MD**
- **Lawrence F. Brass, MD, PhD**
- **Rena N. D'Souza, DDS, PhD**
- **James G. Fox, DVM**
- **Helen H. Hobbs, MD**
- **Vivian S. Lee, MD, PhD, MBA**
- **Timothy J. Ley, MD**
- **Richard Lifton, MD, PhD**
- **Juanita Merchant, MD, PhD**
- **David Meltzer, MD, PhD**
- **David G. Nichols, MD, MBA**
- **Leon E. Rosenberg, MD**
- **Andrew I. Schafer, MD**



4 Subcommittees

Clinical Research PS	Lab Research PS	Non-MD PS	Data
G. Bernard	H. Hobbs	R. D'Souza S. VandeWoude	T. Ley L. Rosenberg
S. Shurin V. Lee D. Nichols	D. Ginsburg N. Andrews J. Merchant A. Schafer	S. Mills J. Fox	S. Mills L. Brass R. Lifton D. Meltzer
Robert Califf Barry Coller Thomas O. Daniel Robert Dittus	Mark C. Fishman Donald Ganem Peter Gruber Mike J. Welsh	' <u>Dental</u> ' Tim DeRouen Mildred Embree Jeffrey Myers ' <u>Vet</u> ' Harry W. Dikerson Michael Lairmore Willie M. Reed	Janine Clayton



Data Subcommittee Updates

- Had weekly meetings since September
- Agenda - to direct & coordinate data collection & compilation to facilitate the following goals:**
- ✓ Understand the consequences of NIH policies, incentives and barriers
 - NIH data to examine trends from 1999 to 2012 of R01, RPG, L & K applicants and awardees by degree, gender, race/ethnicity
 - Trends among MD/PhDs supported by MSTP and those without MSTP of R01, RPG, L & K applicants and awardees by degree, gender, race/ethnicity
- ✓ Understand & analyze the composition & size of PSW
 - Efforts are underway to estimate the number of PSs among the following sectors: the pharmaceutical and biotechnology industries; the intramural program of NIH; independent research organizations; etc
 - Examine relevant data from the database of the Association of American Medical Colleges (AAMC) on Matriculating and Graduating student questionnaires; and from other relevant databases to tracking research careers of MD and MD/PhD graduates



Clinical Research PS Subcommittee Updates

- Developed a master agenda to guide group discussions
- Had 3 meetings to discuss
 - PS workforce needs and their justifications
 - Strengthening of the training pipeline examining in particular the optimal time to introduce training and how to make K mechanisms more effective
- Final recommendations for the topics outlined in the master agenda will be generated from comments and thoughts gathered from individual member



Lab Research PS Subcommittee Updates

- Included 3 ad hoc members to represent surgery specialties and industry:
 - Dr. Peter Gruber, Pediatric Cardiothoracic Surgeon, U of Utah
 - Dr. Donald Ganem and Dr. Mark Fishman, Head of Infectious Disease Research and CSO, Novartis
- Subcommittee has conference calls every 2-3 week, and members have been assigned topics for data gathering: Residency, Training, MSTP, Enhancing Diversity, and Tensions
- Conducting focus groups with junior laboratory-based physician-scientists to get their perspective on relevant issues
- Compiling information to supplement qualitative study undertaken by contractor “Catalyst Research & Communications”



Non-MD PS Subcommittee Updates - Dental

- Four subgroup meetings held
- Each member performed a SWOT analysis of the following pipelines: DDS/PhD, clinical scientists (US vs. Foreign-trained), Non-DDS scientists, team scientists
- Members will examine data provided by the Data subcommittee for their analysis and seek input from key stakeholder professional organizations
- Members will offer recommendations for the issues discussed in their SWOT analysis



Non-MD PS Subcommittee Updates - Vets

- Two meetings held
- Change of leadership - Sue VandeWoude has accepted to be the new Chair
- Subgroup consists of 5 members: 2 deans and 2 associate deans of research from colleges of veterinary medicine and Dr. James Fox
- The subgroup discussed the unique skills that veterinarians have which add value to the biomedical workforce; enhancing biomedical research training for veterinarians; the post-graduate training period and research at colleges of veterinary medicine
- Members are awaiting on data from Data Subcommittee before offering final recommendations



Working Timeline

- January – Review & Compilation of recommendations from subcommittees
- February – Preparation of first Draft Report
- March – PSW in-person meeting to discuss first draft report
- March to May – Revision & Finalization of draft report
- June – Submission of Final Draft Report to ACD

