WWAMI and the Future of Idaho Medical Education

Idaho State Board of Education
November 5, 2009

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Topics

• Review of Presentations to the Idaho State Board of Education - Autumn 2008
• State Board of Education Recommendations – January 2009
• Discussion of an Expansion Planning Process
Autumn 2008

• Three Presentations on WWAMI and Medical Education in Idaho
  – Paul Ramsey, MD
  – John Coombs, MD
  – Tom Norris, MD
• State Board of Education
• Legislative Committee
• Governor’s Committee
Idaho WWAMI

- WWAMI is recognized internationally as a “benchmark program” for high quality, cost-effective, community-based medical education that is responsive to health professional workforce needs.
The WAMI Program: Founding Goals (1971)

1. Provide access for citizens of the Northwest to publicly supported medical education
2. Increase number of primary care physicians and address maldistribution of physicians
3. Create community-based medical education
4. Expand graduate medical education and continuing medical education
5. Avoid excessive capital costs and duplication of resources by using existing educational infrastructure
Idaho WWAMI Medical Educational Continuum
Targeting Primary Care from Grade School through Community Practice

**K-12**
- AHEC Area Health Education Centers
- High School Summer Observational Experience Program
- HOSA Health Occupations Students of America

**Higher Education**
- Summer Medical Dental Education Program
- Premed Summer Primary Care Shadowing Opportunity Program
- Premed Summit
- Idaho Admissions Committee Applicant Interviews
- R/UOE Rural/Underserved Observation Experience

**Medical School**
- The College System
  - 4 year, integrated curriculum of fundamental clinical skills and professionalism
- First Year Site
  - Preclinical Education
  - University of Idaho, Moscow
- *R/UOP*
  - Rural Underserved Opportunities Program
- Second Year Site
  - Preclinical Education
  - University of Washington, Seattle
- *WRITE (3rd Year)*
  - WWAMI Rural Integrated Training Experience
- *Idaho Track 3rd & 4th Year*
  - Required and Elective Clinical Clerkships in Idaho
- *Third Year*
  - Required Clerkships
  - Surg
  - IntMd
  - Fam
  - Ob/G
  - EMD
  - CC
  - Community-Based
- *Fourth Year*
  - Required & Elective Clerkships
  - Neuro
  - Community-Based

**Postgraduate**
- *Residencies*
  - Fam
  - IntMd
  - Psych
- *Fellowships*
  - Sports Medicine
  - HIV
  - Rural
  - Pulmonary

**Community Practice**
- AHEC Area Health Education Centers
- Mini Medical School
- Lifelong Practice Support
  - Continuing Medical Education
  - MEDCON
  - Health Sciences Library
  - Rural Telemedicine Network

*Complete list of R/UOP, WRITE, Idaho Track, 3rd & 4th year required & elective clerkships, Residency and Fellowship Program locations available upon request*
Idaho WWAMI offers 3 of the 4 years of medical school in Idaho

Year 1: Basic sciences & introduction to patient care at University of Idaho, Moscow

Year 2: Organ-systems medical education & core clinical skills “Colleges” training in Seattle

Years 3 & 4: Clinical training in Idaho or other WWAMI states – Options include the Idaho Track (entire 3rd year in Idaho) and the WRITE Rural Program
Why Does WWAMI Currently Teach the 2\textsuperscript{nd} Year in Seattle?

- 2\textsuperscript{nd} year is currently taught in Seattle for all WWAMI students
- Curriculum has 10 “organ systems” courses that integrate basic sciences, research and clinical care
- Each course has 10-40 faculty, integrating medical or surgical specialists/sub-specialists with PhD faculty and researchers
- Requires 200+ faculty and an Academic Health Center
- 2\textsuperscript{nd} year also includes: the Colleges (mentoring and core clinical skills), Pharmacology, Pathology, Epidemiology, Medicine-Health-Society, Genetics, and Nutrition courses.
Could WWAMI Offer a High Quality Second Year Medical School Program in Idaho?

• Yes, but a thoughtful planning process would be required:
  – A complete replication of the current second year in Idaho could be done, but would be expensive
  – A more cost effective second year could be developed utilizing distance learning technologies for some lectures
  – Changes to the curriculum of the second year could be considered
2008 Idaho WWAMI Map
### WWAMI Idaho Admissions E-2009

<table>
<thead>
<tr>
<th>2009</th>
<th>WWAMI Total</th>
<th>Non-WWAMI</th>
<th>Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Applied</td>
<td>134</td>
<td>1075</td>
<td>3191</td>
</tr>
<tr>
<td>Interviewed</td>
<td>76</td>
<td>599</td>
<td>59</td>
</tr>
<tr>
<td>Accepted</td>
<td>20</td>
<td>202</td>
<td>14</td>
</tr>
</tbody>
</table>

*38 of this number interviewed with MSTP. 658 interviewed with the MD Program.

** 5 MSTP applicants matriculated 2 of whom were WWAMI/Washington.
Public vs. Private Medical Education Cost to the Student - 2009

<table>
<thead>
<tr>
<th></th>
<th>WWAMI</th>
<th>PUBLIC*</th>
<th>PRIVATE*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student Tuition</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resident</td>
<td>$19,122</td>
<td>$20,086</td>
<td>$39,310</td>
</tr>
<tr>
<td>Non-Resident</td>
<td>$45,527</td>
<td>$42,133</td>
<td>$39,768</td>
</tr>
<tr>
<td><strong>TOTAL STUDENT DEBT (at graduation) 2008</strong></td>
<td>$119,958</td>
<td>$143,140</td>
<td>$173,304</td>
</tr>
</tbody>
</table>

*Mean Numbers
Costs of Educating a Medical Student

- LCME 2007 Financial and Medical School Questionnaires report the average state support of a public medical school student is $103K per year
- The funded cost per medical student in the Spokane WWAMI expansion is $71K
- WWAMI Idaho costs of $63K per student include the additional costs related to a regional medical school, such as regional offices, faculty support and clerkships in Idaho
- 57% of appropriated funds for WWAMI in Idaho are spent in Idaho each year
- UWSOM’s first-year tuition and fees in FY 2009 are 87% of the average at public medical schools
## Comparative Costs of Educating a Medical Student

<table>
<thead>
<tr>
<th>Costs per year of educating one medical student</th>
<th>AAMC 1995 Study (in 2007 dollars)</th>
<th>LCME 2007 Studies</th>
<th>WWAMI Idaho current costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Costs per year of educating one medical student</td>
<td>$95,000-$136,000 per student per year</td>
<td>$103,000 per student per year</td>
<td>$63,000 per student per year</td>
</tr>
</tbody>
</table>

WWAMI is meeting the goal of creating high quality and **HIGH VALUE** education for medical students in our region.
2008 WWAMI Economic Impact Study
UI College of Business & Economics

• Idaho WWAMI Education & Research Programs generate $17 million in sales; $8 million in wages; 195 jobs; and $500,000 in taxes annually

• Idaho WWAMI Practicing Physicians generate $275 million in sales; $156 million in wages; 2,064 jobs; and $2 million in taxes annually

• Idaho WWAMI generates over $5.00 of economic contributions for every State dollar of funding received, compared to the national medical school average of $2.30
WWAMI Graduates Return to Idaho

• **49%** of all Idaho WWAMI graduates have returned to practice medicine in Idaho *(242 Idaho WWAMI/490 Eligible Idaho WWAMI)*
  – U.S. medical schools average in-state return rate: **39%**
  – Oregon 46%; Utah 42%; N. Dakota 32%; S. Dakota 41%

• With additional non-Idaho WWAMI graduates who set up practice in Idaho, the State’s Return on Investment goes up to **72%** *(351 Total WWAMI in ID/490 Eligible Idaho WWAMI)*

• **48%** of WWAMI graduates enter primary care
  – National average 38%
WWAMI Graduates’ Practice Sites in Idaho
WWAMI = QUALITY
Achieving Excellence in Medical Education

• Full accreditation through the LCME:
  “The benchmark WWAMI Program provides students with a unique opportunity for education and personal growth.” (LCME letter of accreditation, 2002)

  Consistent measurement of educational equivalency across distributed basic science and clinical training sites

U.S. News & World Report:
  – #1 Primary Care Medical School (16 years)
  – #1 Family Medicine & Rural Health (18 years)
WWAMI = QUALITY
Achieving Excellence in Medical Education

- Entering WWAMI Students (E-2009)
  - MCAT Composite 31.01 (30.86)*
  - GPA 3.67 (3.66)*
  *(National Average)

- WWAMI Participation: Volunteer Faculty Rating n=4,800:
  - High degree of satisfaction & support.......................... 93%
  - Enhanced their patient care........................................ 90%
  - Contributes to meeting professional goals.................... 97%

- Provision of ongoing faculty development for all preceptors
- Students achieve residency match goals > 95% of time
• UI WWAMI faculty bring in $11 million dollars of NIH funding annually to Idaho (5 year average)
• UI WWAMI NIH research funding is already greater than 14 U.S. Medical Schools (including U of North Dakota, Creighton U and Florida State U)
• Institute for Translational health Sciences ($62M) funded by NIH in 2008 to serve WWAMI region. 4 UI researchers sit on advisory panel
WWAMI and University of Idaho Proposal to the SBOE June 19, 2008

- Expand class size for Idaho residents from 20 to 40 medical students/year;
- Begin planning to establish a second-year medical education program in Idaho to create a four-year WWAMI Idaho Medical Education Education Program;
- Expand existing state-wide network of 3rd and 4th year community clinical training sites to accommodate class size increase;
- Create a state-wide GME approach to expand residency training in Idaho and build on existing collaborative efforts;
- Build on existing collaborative efforts in biomedical research.
Offering the 2\textsuperscript{nd} Year Curriculum in Idaho

- What are anticipated needs to offer the 2\textsuperscript{nd} year in Idaho? This will depend on the size of the class. For 40 students:
  - Large classroom seating 40 and 4-6 small group rooms
  - Distance learning equipment and IT support personnel
  - Access to laboratory facilities
  - Financial support for increased university-based faculty
  - Addition of clinical faculty and College (mentor) faculty
  - Information systems
  - Some of these facilities are already available at the UI-Boise Center

- How could it be done?
  - Combination of virtual lectures and local small groups-similar to the University of British Columbia's Victoria Campus
  - Shared curriculum with 2\textsuperscript{nd} year program in Seattle

- Requires a carefully researched plan to develop the curricular design and business plan
WWAMI Idaho Expansion Plan

- **Current Status**: 20 ID students/class
- **Gradual Increase in Class Size During Planning Using Current WWAMI model**
- **Major Increase in Class Size When New Idaho 4 Yr Model is in Place**

**Planning phase for New Idaho Model**: Planning Funded by UWSOM—1 year

**Implementation of New Idaho Model**
Ten-Year Vision for the Idaho WWAMI Program

- Continued integration with the entire WWAMI program will ensure access to high quality and cost effective medical education for citizens of Idaho.
- Four year Idaho WWAMI medical student curriculum will be taught in a distributed manner across the state of Idaho.
- WWAMI partnership with the University of Idaho will continue and expand to include close integration with multiple Idaho public universities and other health professional training programs.
- High quality graduate medical education (residencies) will be expanded in Idaho and closely linked to medical student education.
- WWAMI-linked research programs will expand and biomedical related research funding will grow at multiple Idaho public universities creating economic development opportunities throughout the state.
- Substantial progress will be made toward addressing Idaho’s need to provide access to health care in underserved areas.
SBOE January 2009 Recommendations

- Expand GME
- Increase WWAMI students from 20-40
- Expand total sponsored students to 60-90
- Establish 4 year program in Idaho
Assumptions for Planning Process
Idaho WWAMI Four-Year Program

- The planning process would be funded by the University of Washington School of Medicine.
- The class size of the Idaho WWAMI program could be 40-60 students or more, depending on funding.
- It is anticipated that the 2nd year class would be taught in Boise.
- The Idaho WWAMI Program would be accredited by the LCME under the University of Washington School of Medicine’s accreditation.
- The expansion would maintain the high quality and cost effective medical education for which the WWAMI Program is internationally renowned.
Steps Required to Develop an Idaho WWAMI Expansion Plan

- Update analysis of workforce needs
- Plan expansion of 1\textsuperscript{st} year from 20 – 40 students
- Inventory resources needed for expansion at current 1\textsuperscript{st} year site
- Inventory resources needed for development of a new second 1\textsuperscript{st} year site
- Develop accurate cost estimates of expansion at current 1\textsuperscript{st} year site versus new site
Steps Required to Develop an Idaho WWAMI Expansion Plan

- Select curricular model to be used for the 2\textsuperscript{nd} year
- Inventory current assets for 2\textsuperscript{nd} year in Idaho
- Identify the new assets needed for 2\textsuperscript{nd} year in Idaho
- Develop accurate cost estimates for establishment of 2\textsuperscript{nd} year in Idaho
- Develop accurate cost estimates for expansion of 3\textsuperscript{rd}, and 4\textsuperscript{th} year clerkships in Idaho
Thank you for your time.

Questions/Comments?

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