OHSU Board of Directors Meeting

September 18, 2014
1:30 pm - 3:30 pm

Malinow Hall, Oregon National Primate Research Center, W. Campus
OREGON HEALTH & SCIENCE UNIVERSITY
BOARD OF DIRECTORS MEETING

September 18, 2014
1:30 – 3:30 p.m.
Oregon National Primate Research Center
Administration Building

<table>
<thead>
<tr>
<th>Time</th>
<th>Agenda Item</th>
<th>Presenter</th>
</tr>
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<tbody>
<tr>
<td>1:30 p.m.</td>
<td>Call to Order/ Chairman’s Comments</td>
<td>Jay Waldron</td>
</tr>
<tr>
<td></td>
<td>President’s Comments</td>
<td>Joe Robertson, M.D.</td>
</tr>
<tr>
<td></td>
<td>Approval of Minutes (Action)</td>
<td>Jay Waldron</td>
</tr>
<tr>
<td>1:45 p.m.</td>
<td>Welcome and Overview:</td>
<td>Nancy Haigwood, Ph.D.</td>
</tr>
<tr>
<td></td>
<td>Oregon National Primate Research Center</td>
<td></td>
</tr>
<tr>
<td>2:05 p.m.</td>
<td>Preliminary FY14 Financial Results</td>
<td>Lawrence Furnstahl</td>
</tr>
<tr>
<td>2:20 p.m.</td>
<td>Ending AIDS at OHSU</td>
<td>Louis Picker, M.D.</td>
</tr>
<tr>
<td>2:35 p.m.</td>
<td>The Radiochemistry Research Center: Vision and Opportunities</td>
<td>William Rooney, Ph.D.</td>
</tr>
<tr>
<td>2:50 p.m.</td>
<td>OHSUF Update</td>
<td>Keith Todd</td>
</tr>
</tbody>
</table>
Following due notice to the public, the regular meeting of the Board of Directors of Oregon Health & Science University (OHSU) was held at 1:30 pm in the School of Nursing, Room 358/364, located at 3455 SW Veterans Hospital Road, Portland, Oregon.

A transcript of the audio recording was made of these proceedings. The recording and transcript are both available by contacting the OHSU Board Secretary at 3181 SW Sam Jackson Park Road, Mail Code L101, Portland, Oregon 97239. The following written minutes constitute a summary of the proceedings.

Attendance
A quorum of the Board was present. Board members in attendance were Jay Waldron, Chair, presiding; Maria Pope, Vice Chair; Ken Allen; Frank Toda; Poorav Patel; Joe Robertson; MardiLyn Saathoff; Amy Tykeson; and David Yaden. Also present were Lawrence Furnstahl, Chief Financial Officer; Chuck Kilo, Chief Medical Officer; Jenny Mladenovic, Provost; Greg Moawad, Director, Public Safety; David Robinson, Executive Vice Provost; Connie Seeley, Board Secretary and OHSU Chief of Staff; other OHSU staff members and members of the public.

Call to Order
Jay Waldron called the meeting to order at 1:38 p.m. Mr. Waldron briefly outlined the meeting agenda and asked Joe Robertson to begin the meeting with the president’s comments.

President’s Comments
Dr. Robertson’s comments covered the following topics:

Collaborative Life Sciences Building (CLSB) Opening
Dr. Robertson mentioned that this new building is an application of collaboration and innovation, made possible by the three institutions, government entities, and our philanthropic partners. It allows for increases in students in PA, dental, medical, and pharmacy programs.

OHSU Graduations
We now graduate over 1,000 students per year. There are over 3,000 students on campus at any given time.

Research Programs
Our research programs are still 14% ahead of last year in the awards that we’ve received notification for at a time of flat NIH funding.
Scholars for a Healthy Oregon
We now have our first and full contingent of scholars for this program. This program promises tuition for those that are willing to serve in an underserved area in Oregon.

Arming OHSU Public Safety Officers
On the agenda today is a resolution which would authorize OHSU police officers to carry firearms.

Approval of Minutes
Mr. Waldron asked for the approval of the minutes of the April 24, 2014 Board meeting, included in the Board Docket. Upon motion duly made by Ms. Pope and seconded by Ms. Saathoff, the minutes were unanimously approved.

Financial Update
Resolution 2014-06-05: Operating Budget, Capital Budget and Academic Year Fee Book

Lawrence Furnstahl presented financial results for the first 11 months of the current fiscal year, as well as the operating and capital budgets for the next fiscal year. He noted that expansion of health insurance coverage in Oregon has happened faster than expected. Other positive trends include grant awards, fundraising, output of science metrics, and the addition of new jobs. Budget highlights include enhanced support for faculty, the inclusion of CLSB operating costs in the budget, control overhead costs held to 2% growth, and the continuation of the OHSU Tuition Promise program. The Radiochemistry Research Center, a major science initiative that is under consideration, is included in the capital budget.

MardiLyn Saathoff asked if the Research Imaging Institute is just $2 million in this budget. Mr. Furnstahl confirmed it is just $2 million in this budget and that the whole program is $32 million; this is just next year’s piece, largely for design.

Dr. Jeanette Mladenovic commented on the tuition and fees, stating that increases in tuition, health insurance, and fees were lower than in prior years.

Poorav Patel inquired about the 7% tuition increase for the dental school vs. the 2% increase for the medical school. Mr. Furnstahl explained that this increase was arrived at after looking at different benchmarks such as other dental school’s tuition rates, debt levels, and initial earning levels of graduates, to put together the package that afforded the new School of Dentistry at the South Waterfront.

Responding to Mr. Patel’s question about the long-term cost of tuition management, Mr. Furnstahl explained that OHSU’s new way of budgeting helps with understanding the true cost of academic activities, and will be further refined by differentiating education and research within the academic piece. Another part of tuition management is raising endowment for student aid. The third part of the
strategy is managing administrative costs. Dr. Mladenovic commented that OHSU has also put additional dollars into scholarship from operational dollars, and that the faculty in the CLSB will now be able to teach across schools and programs, instead of focusing in just one.

Mr. Patel inquired about health insurance for students. Since it is different from what is offered to employees, would it be possible to purchase insurance through the exchange? Dr. Mladenovic explained that she anticipates that insurance costs will go down due to a new insurance program for our students.

Amy Tykeson asked Lawrence Furnstahl about ease of comparing this fiscal year to last fiscal year, given that now there is a new way of budgeting with more transparency. Mr. Furnstahl responded that there will be a transition period where giving a detailed comparison of this year with a prior year will be more difficult, but there is no problem on the aggregate performance of OHSU.

Hearing no further questions or comments on the financial report, Mr. Waldron called for a motion on Resolution 2014-06-05, which approves and adopts the FY 14-15 Operating Budget, including the tuition and fees for the academic year 2014-15 as shown in the OHSU Academic Year Fee Book, and the FY14-15 Capital Budget. Upon motion duly made by Mr. Yaden and seconded by Ms. Pope, the resolution was unanimously approved.

**State Achievement Compact**

*Resolution 2014-06-06: Achievement Compact with Oregon Education Investment Board*

Mr. Waldron introduced David Robinson, Executive Vice-Provost, to present on State Achievement Compacts.

Dr. Robinson went into detail about the history of the State Achievement Compacts, the goals, and how OHSU is managing those goals.

Ms. Tykeson asked Dr. Robinson if the numbers increase from the KPIs from the State from 70% to 50% as we move forward. Dr. Robinson replied that they do not.

Mr. Yaden commented on two aspects of the Achievement Compacts. Until now, they have been mostly projections of what we already know rather than true achievement targets. In addition, until they are linked to funding mechanisms and budgets are set, it remains uncertain if they are just projections or true achievement compacts related to the budgets.

Ms. Saathoff inquired if the intent of the legislation was to set hard targets and attach dollars to those targets. Mr. Yaden explained that the targets would link to a new output-based funding mechanism for the state.
Resolution 2014-06-06 enters OHSU into the Achievement Compact with the Oregon Education Investment Board. Upon motion duly made by Dr. Toda and seconded by Ms. Saathoff, the resolution was unanimously approved.

**Commissioning of Firearms for University Police Officers**

*Resolution 2014-06-07: Commissioning university police officers to carry firearms*

Mr. Waldron introduced Greg Moawad, Director of Public Safety, to present on arming of OHSU public safety officers.

Mr. Moawad provided a recap of the process OHSU has undertaken over a period of years regarding the pros and cons of arming our officers. He highlighted the collaborative effort used to bring various factions together to weigh all sides of this issue.

Ms. Saathoff asked if the requirements to get into the training program that Mr. Moawad described are the same as for other government law enforcement officers. Mr. Moawad assured her that they are the same.

Ms. Tykeson asked if the OHSU officers are police officers first, with the additional training on top of that. Mr. Moawad indicated that that is correct.

Dr. Robertson thanked Mr. Moawad for his efforts on this front. He also said that this initiative was undertaken in the spirit of OHSU’s mission statement, which is to improve the health and well-being of all Oregonians.

Ms. Tykeson asked Mr. Moawad if he is being sought out as a best practices entity now that this program has been developed. Mr. Moawad replied that he is.

Mr. Yaden commended Mr. Moawad on the attention he’s given to training around mental health issues, and the situation this puts public safety officers in.

Mr. Allen remarked that it is important for OHSU to recruit the right kind of officer, and to get the word out that our officers are police officers; perhaps the department should be known as a police department instead of the Department of Public Safety.

Dr. Toda told Mr. Moawad that he himself has 30 years in security, disaster preparedness, and the military. He is very impressed with how Mr. Moawad handled the questions he posed to him offline.

Resolution 2014-06-07 authorizes the President or the President’s designee to authorize commissioned university police officers to carry firearms at any time on and after September 15, 2014, subject to completion by such officers of appropriate training approved by the OHSU Director of Public Safety.
Upon motion duly made by Mr. Allen and seconded by Ms. Saathoff, the resolution was unanimously approved.

**OHSU Healthcare Quality and Safety Report**
Mr. Waldron then introduced Dr. Chick Kilo, Vice President and Chief Medical Officer, to present on the OHSU Healthcare Quality and Safety Report.

Dr. Kilo spoke of the ongoing effort in the clinical enterprise area on performance improvement targets, and what has been achieved over the last two years. He spoke of OPEX, the OHSU Performance Excellence Systems.

Mr. Waldron asked Dr. Kilo what OPEX means to a patient, and what effect can the Board have on OPEX. Dr. Kilo answered that he believes patients rate OHSU on how well they are treated, and it should be reflective of the safety, quality, service and affordability of the experience. As for what effect the Board can have on OPEX, Dr. Kilo answered that he would invite the Board’s involvement so that they would be better sponsors of the program.

Mr. Yaden cautioned that if one really wants to get more involved, be prepared to learn a whole dictionary of acronyms.

Mr. Patel asked if NYU or Emory have particular programs that allow them to be successful in the UHC top performers rating. Dr. Kilo responded that most on that list have been working on it for six to eight years. He mentioned that folks from OHSU are visiting several of the schools on the list to better learn what they are doing.

Ms. Saathoff stated that Dr. Kilo had mentioned that OHSU is basically at the second stage, and that OHSU will start to see some results when it gets to the third stage--a stage where the system is in place, and there is more alignment. Dr. Kilo agreed.

Ms. Pope asked if Dr. Kilo could bring an example to the Board and walk them through it. Dr. Kilo said he would.

Mr. Yaden added that a more enlightening experience would be not just getting a briefing from Dr. Kilo, but actually attending one of the huddles they have with the people who are actually living this day by day.

Ms. Tykeson added that that is a cross-functional huddle, kind of this service profit chain, which leads to all kinds of good things. It’s a cultural shift when you are on this continuum.

**Adjournment**
Hearing no further business, Mr. Waldron adjourned the meeting at 2:50 p.m.
Respectfully submitted,

____________________________________

Connie Seeley
Board Secretary
ONPRC mission

To use scientific discovery, and, in particular, nonhuman primate (NHP) models, to accelerate progress in understanding human diseases, leading to better health

- Conduct state-of-the-art research for which nonhuman primates are uniquely suited for solutions of human health problems
- Provide a national resource to conduct interdisciplinary biomedical research, especially as it relates to nonhuman primates
- Pursue the highest standards of humane and responsible animal care
- Provide research training and experience for those preparing to enter research and biological teaching careers
Value of NHP models is increasing

- NHP models provide a crucial link between preclinical and clinical studies (mechanisms, proof-of-concept)

- Similarities between NHP and human physiology and pathophysiology allow robust extrapolation to human disease

- Comprehensive analyses of systems, including noninvasive imaging, has enhanced the value of the models and increased interdisciplinary research

- Models for specific diseases are a reality and more are in development, particularly targeting neurological conditions and cancer

- Maintains over 4,700 pathogen-free rhesus monkeys; sub-population of Japanese macaques, baboons, cynomolgus macaques
  - Aging colony
  - ID/AIDS research colony
  - Obese resource
  - Fertile females

- 15 Veterinarians and > 130 animal care staff
  - Surgery, pathology, behavioral units
  - Primate genetics program
  - MRI, other state-of-the-art imaging

- Contributes to the nationwide consortium of purpose-bred primates
Strategic recruitment to catalyze interdisciplinary opportunities: 8 new early stage faculty

Pathobiology & Immunology: Scott Wong
- HIV/AIDS and other vaccines
- Multiple sclerosis infection model
- Cytomegalovirus models and vectors

Reproductive & Developmental Science: Jon Hennebold
- Contraception
- Stem cell biology
- Oncofertility

Neuroscience: Kathy Grant
- Neurodegeneration
- Macular degeneration
- Addiction (alcohol, nicotine)

Diabetes, Obesity, & Metabolism: Kevin Grove
- Metabolic diseases
- Obesity-induced diabetes
- Cardiovascular disease

Five interdisciplinary research groups
- Early Childhood Health & Development
- Healthy Aging
- Stem Cell & Developmental Biology
- Genetics
- Addiction
Primate research accelerates product development:
Go/No-Go decisions for drugs, vaccines, and therapies

OHSU CENTER FOR EMBRYONIC CELL AND GENE THERAPY
Groundbreaking research in stem cell therapy
Induced pluripotent cells
Mitochondrial gene therapy
Shoukhrat Mitalipovs, Ph.D. & Shawn Chavez, Ph.D.

NOVO-NORDISK/OHSU/MONASH PARTNERSHIP
Target discovery for therapeutics for obesity
Research funding for NHP research is growing (in millions)

Trends in NIH funding for primate research

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Total Projects</th>
<th>Total Funding</th>
<th>% change 08-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>1,010</td>
<td>$383.2</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>1,135</td>
<td>$464.9</td>
<td>21.3%</td>
</tr>
<tr>
<td>2010</td>
<td>1,086</td>
<td>$496.2</td>
<td>6.7%</td>
</tr>
<tr>
<td>2011</td>
<td>981</td>
<td>$433.8</td>
<td>-12.6%</td>
</tr>
<tr>
<td>2012</td>
<td>1,032</td>
<td>$586.2</td>
<td>35.1%</td>
</tr>
<tr>
<td>2013</td>
<td>997</td>
<td>$572.1</td>
<td>-2.4% 49%</td>
</tr>
</tbody>
</table>

Top Primate Research by Institution

Cumulative 2008-2013

- Emory: 152.8
- OHSU: 150.9
- Pittsburgh: 91.9
- Washington: 74.1
- Duke: 70.6
- Wake Forest: 70.2
- Mass Gen Hosp: 68.4
- Baylor: 66.9
- Johns Hopkins: 64.7
- Wisconsin, Madison: 62.3
- UC, Davis: 60.1

Source: NIH Reporter, Excludes P51 Core grants
Infrastructure investment will benefit OHSU

- Had available capacity to grow +30% since 2008
- Currently at capacity and holding at $46M since 2012
- 2020 award growth target and infrastructure needs are in process via ongoing Strategic Planning

30% growth = $59.8M  
15% growth = $52.9M  
10% growth = $50.6M

PB = Primate Breeding Space  
LR = Lab Research Space  
PR = Primate Research Space
FY14 Preliminary Financial Results

- Preliminary FY14 OHSU operating income is $90 million or 4% on $2.3 billion of revenue, $25 million over target on stronger than budgeted patient care payment rates across managed care, Medicaid and Medicare.

- Payer mix shows a marked decrease in uninsured activity since January, shifting to Medicaid with coverage expansion under the Affordable Care Act.

- New grant awards—a leading indicator of future revenues—ended FY14 up nearly 5% despite flat federal funding for NIH.

- There is a possible upward adjustment to net patient revenue pending that we should resolve in the next week.

- KMPG will update the Finance & Audit Committee on their year-end audit work at the October 10th meeting, and present their report to the full Board on October 23rd.
Consolidated net worth is up $201 million or 9%, from operating earnings, investment returns and major gifts, offset in part by writing off unamortized issuance costs from past bond issues, required by new GASB accounting rules.

Through December, OHSU cash & investments were down $(33) million, a decline that has now been reversed, reflecting $37 million of positive cash flow in January – June, despite a significant slowdown in collections from a change in billing vendors.

Reducing patient A/R and increasing cash is a prime focus for the first half of FY15.

In addition, we implemented an accounting presentation change, moving the $17 million of outstanding checks at June 30th from a liability to a deduction from cash balances, to reflect current best practice.
<table>
<thead>
<tr>
<th>June YTD (12 months)</th>
<th>FY13 Actual</th>
<th>FY14 Budget</th>
<th>FY14 Prelim</th>
<th>Prelim - Budget</th>
<th>Prelim / Last Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net patient revenue</td>
<td>$1,520</td>
<td>$1,606</td>
<td>$1,640</td>
<td>$34</td>
<td>8%</td>
</tr>
<tr>
<td>Grants &amp; contracts</td>
<td>366</td>
<td>354</td>
<td>371</td>
<td>16</td>
<td>1%</td>
</tr>
<tr>
<td>Gifts applied to operations</td>
<td>65</td>
<td>72</td>
<td>67</td>
<td>(5)</td>
<td>3%</td>
</tr>
<tr>
<td>Tuition &amp; fees</td>
<td>59</td>
<td>63</td>
<td>63</td>
<td>0</td>
<td>7%</td>
</tr>
<tr>
<td>State appropriations</td>
<td>30</td>
<td>32</td>
<td>35</td>
<td>3</td>
<td>17%</td>
</tr>
<tr>
<td>Other revenue</td>
<td>92</td>
<td>96</td>
<td>96</td>
<td>1</td>
<td>5%</td>
</tr>
<tr>
<td><strong>Operating revenues</strong></td>
<td><strong>2,132</strong></td>
<td><strong>2,223</strong></td>
<td><strong>2,273</strong></td>
<td><strong>49</strong></td>
<td><strong>7%</strong></td>
</tr>
<tr>
<td>Salaries &amp; benefits</td>
<td>1,247</td>
<td>1,326</td>
<td>1,343</td>
<td>18</td>
<td>8%</td>
</tr>
<tr>
<td>Services &amp; supplies</td>
<td>592</td>
<td>627</td>
<td>633</td>
<td>5</td>
<td>7%</td>
</tr>
<tr>
<td>Medicaid provider tax</td>
<td>54</td>
<td>67</td>
<td>69</td>
<td>1</td>
<td>27%</td>
</tr>
<tr>
<td>Depreciation</td>
<td>112</td>
<td>113</td>
<td>115</td>
<td>2</td>
<td>3%</td>
</tr>
<tr>
<td>Interest</td>
<td>29</td>
<td>25</td>
<td>23</td>
<td>(2)</td>
<td>-20%</td>
</tr>
<tr>
<td><strong>Operating expenses</strong></td>
<td><strong>2,034</strong></td>
<td><strong>2,158</strong></td>
<td><strong>2,183</strong></td>
<td><strong>24</strong></td>
<td><strong>7%</strong></td>
</tr>
<tr>
<td>Operating income</td>
<td>$99</td>
<td>$65</td>
<td>$90</td>
<td>$25</td>
<td>-9%</td>
</tr>
</tbody>
</table>
## A/R & Presentation Change Affect FY14 Cash

<table>
<thead>
<tr>
<th></th>
<th>6/30/13 (millions)</th>
<th>6/30/14 (millions)</th>
<th>Change (millions)</th>
<th>June YTD (millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating cash &amp; investments</td>
<td>$592</td>
<td>$587</td>
<td>$(5)</td>
<td>Operating income</td>
</tr>
<tr>
<td>Outstanding check reclass</td>
<td>17</td>
<td>0</td>
<td>(17)</td>
<td>Depreciation</td>
</tr>
<tr>
<td>Quasi-endowment funds</td>
<td>83</td>
<td>92</td>
<td>10</td>
<td>OHSU investment return</td>
</tr>
<tr>
<td></td>
<td>692</td>
<td>679</td>
<td>(13)</td>
<td>CLSB project funds applied</td>
</tr>
<tr>
<td>Trustee-held bond funds</td>
<td>28</td>
<td>29</td>
<td>1</td>
<td>Sources of cash</td>
</tr>
<tr>
<td>CLSB project funds</td>
<td>51</td>
<td>17</td>
<td>(34)</td>
<td>Principal repaid</td>
</tr>
<tr>
<td>Total cash &amp; investments</td>
<td>771</td>
<td>725</td>
<td>(46)</td>
<td>Capital spending</td>
</tr>
<tr>
<td>Net physical plant</td>
<td>1,413</td>
<td>1,517</td>
<td>103</td>
<td>Patient accounts receivable</td>
</tr>
<tr>
<td>Interest in Foundations</td>
<td>765</td>
<td>829</td>
<td>64</td>
<td>Outstanding check reclass</td>
</tr>
<tr>
<td>Long-term debt</td>
<td>(771)</td>
<td>(758)</td>
<td>13</td>
<td>Working capital &amp; other, net</td>
</tr>
<tr>
<td>Working capital &amp; other, net</td>
<td>(8)</td>
<td>59</td>
<td>68</td>
<td>Uses of cash</td>
</tr>
<tr>
<td>OHSU net worth</td>
<td>2,170</td>
<td>2,371</td>
<td>201</td>
<td>Sources less uses of cash</td>
</tr>
</tbody>
</table>

- Operating income: $90
- Depreciation: $115
- OHSU investment return: $34
- Capital gifts applied: $27
- CLSB project funds applied: $34
- Sources of cash: $301
- Principal repaid: (13)
- Capital spending: (219)
- Patient accounts receivable: (49)
- Outstanding check reclass: (17)
- Working capital & other, net: (16)
- Uses of cash: (314)
- Sources less uses of cash: (13)

- 6/30/13 balance: $692
- 6/30/14 balance: $679
- Total change in net worth: $201
Days Cash on Hand Flat with Gift Funds

Consolidated Unrestricted Days Cash on Hand (includes Foundations)
## Activity Shifts to Outpatient with Strong Mix

<table>
<thead>
<tr>
<th>June YTD (12 months)</th>
<th>FY13 Actual</th>
<th>FY14 Budget</th>
<th>FY14 Actual</th>
<th>Actual / Budget</th>
<th>Actual / Last Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inpatient admissions</td>
<td>29,748</td>
<td>30,824</td>
<td>28,535</td>
<td>-7%</td>
<td>-4%</td>
</tr>
<tr>
<td>Average length of stay</td>
<td>5.6</td>
<td>5.5</td>
<td>5.8</td>
<td>5%</td>
<td>3%</td>
</tr>
<tr>
<td>Average daily census</td>
<td>446</td>
<td>455</td>
<td>442</td>
<td>-3%</td>
<td>-1%</td>
</tr>
<tr>
<td>Day/observation patients</td>
<td>31,752</td>
<td>32,777</td>
<td>34,096</td>
<td>4%</td>
<td>7%</td>
</tr>
<tr>
<td>Emergency visits</td>
<td>46,991</td>
<td>46,067</td>
<td>45,611</td>
<td>-1%</td>
<td>-3%</td>
</tr>
<tr>
<td>Ambulatory visits</td>
<td>766,912</td>
<td>811,703</td>
<td>766,918</td>
<td>-6%</td>
<td>0%</td>
</tr>
<tr>
<td>Surgical cases</td>
<td>30,450</td>
<td>31,279</td>
<td>30,414</td>
<td>-3%</td>
<td>0%</td>
</tr>
<tr>
<td>Casemix index</td>
<td>1.97</td>
<td>1.96</td>
<td>1.97</td>
<td>1%</td>
<td>0%</td>
</tr>
<tr>
<td>Outpatient share of activity</td>
<td>43.2%</td>
<td>44.2%</td>
<td>45.2%</td>
<td>2%</td>
<td>5%</td>
</tr>
<tr>
<td>CMI/OP adjusted admissions</td>
<td>103,149</td>
<td>108,184</td>
<td>102,512</td>
<td>-5%</td>
<td>-1%</td>
</tr>
</tbody>
</table>

### Payer mix (% of charges):

<table>
<thead>
<tr>
<th></th>
<th>FY13</th>
<th>FY14</th>
<th>FY14</th>
<th>Actual / Budget</th>
<th>Actual / Last Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial</td>
<td>43.8%</td>
<td>42.7%</td>
<td>43.2%</td>
<td>0.5%</td>
<td>-0.6%</td>
</tr>
<tr>
<td>Medicare</td>
<td>31.6%</td>
<td>32.3%</td>
<td>31.3%</td>
<td>-1.0%</td>
<td>-0.3%</td>
</tr>
<tr>
<td>Medicaid</td>
<td>19.8%</td>
<td>20.1%</td>
<td>22.3%</td>
<td>2.2%</td>
<td>2.5%</td>
</tr>
<tr>
<td>Non-sponsored</td>
<td>4.8%</td>
<td>4.9%</td>
<td>3.2%</td>
<td>-1.7%</td>
<td>-1.6%</td>
</tr>
<tr>
<td>Total</td>
<td>100.0%</td>
<td>100.0%</td>
<td>100.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
</tbody>
</table>
Uninsured Covered by Medicaid with ACA

Shift in Uninsured Share Within OHSU Payer Mix Since Start of ACA

FY12  | FY13  | FY14 H1 | FY14 H2
---|---|---|---
Non-sponsored: 4.7%  | 4.8%  | 5.1%  | 1.4%
Medicaid: 44.4%  | 43.8%  | 43.9%  | 42.4%
Medicare: 20.4%  | 19.8%  | 19.8%  | 24.8%
Commercial: 30.5%  | 31.6%  | 31.2%  | 31.4%
ACA Coverage Funded Half by Payment Cuts

Original coverage goals of Affordable Care Act in round numbers

300 million U.S. population

\[ \times 15\% \text{ uninsured} \]

45 million uninsured in U.S.

15 million new private insurance

15 million new Medicaid

15 million still uninsured

10% more coverage

- guaranteed issuance (pre-existing conditions)
- mandated participation

$1$ trillion cost / 10 years

50% higher taxes

50% lower payments

10 million undocumented

5 million other
Grant Awards 4.6% Above Last Year

Because grants are generally spent over a three year period, grant awards are a leading indicator of future grant revenues on the income statement.
2,100 Jobs Created Since Financial Crisis

Trend in Total OHSU Headcount


May-09 12,529

Jul-14 14,627
FY14 Results with Foundations Consolidated

- OHSU’s audited financial statements include consolidating tables that add the financial results of the OHSU Foundation and Doernbecher Children’s Hospital Foundation to the OHSU total university or public corporation results reported here.

- These consolidated financials include eliminating entries between the university and the Foundations, as well as reclassifying State appropriations to non-operating items, consistent with government accounting (GASB GAAP).

- Operating income at the Foundations swings widely from year to year, as very large gifts (such as the Knight Cancer and Cardiovascular Institute pledges) are received in one period, then transferred up to the University for expenditure in subsequent years.

- In addition, consolidated investment income (which is marked to market) varies significantly with general movement of the stock and bond markets.

- The table on the following page shows these components for the consolidated bottom line for the past 3 years. Net income in FY13 included the benefit of the Knight Cardiovascular Institute gift, while FY14 includes the benefit of a strong stock market.
## Foundation-Consolidated Net Income $192M

<table>
<thead>
<tr>
<th></th>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
</tr>
</thead>
<tbody>
<tr>
<td>OHSU operating income</td>
<td>$83</td>
<td>$99</td>
<td>$90</td>
</tr>
<tr>
<td>Foundations operating income</td>
<td>(36)</td>
<td>57</td>
<td>(7)</td>
</tr>
<tr>
<td>Restricted capital elimination</td>
<td>(4)</td>
<td>(1)</td>
<td>16</td>
</tr>
<tr>
<td>Reclass of State appropriations</td>
<td>(35)</td>
<td>(30)</td>
<td>(35)</td>
</tr>
<tr>
<td><strong>Consolidated operating income</strong></td>
<td><strong>8</strong></td>
<td><strong>125</strong></td>
<td><strong>63</strong></td>
</tr>
<tr>
<td>State appropriations</td>
<td>35</td>
<td>30</td>
<td>35</td>
</tr>
<tr>
<td>Investment &amp; other nonoperating</td>
<td>20</td>
<td>51</td>
<td>94</td>
</tr>
<tr>
<td><strong>Consolidated net income</strong></td>
<td><strong>$63</strong></td>
<td><strong>$207</strong></td>
<td><strong>$192</strong></td>
</tr>
</tbody>
</table>
FY15 July Results

- The next page summarizes operating income from the first month of FY15, following the new presentation of “patient care” and “research & education”, rather than the prior “hospital” and “other university” columns.

- On strong volume, income from patient care is running $1 million above target, while research & education is $(2) million off, for a net $(1) million gap to expected run-rate.

- This is not unusual during the early months of the year, with slow grant and tuition revenues during the summer and typical delays in drawing gift funds from the Foundations.

- In addition, the School of Dentistry incurred one-time costs from their move into the CLSB/Skourtes Tower and a change in providing equipment to students.

- Finally, we are working to improve productivity and performance in the Department of Pediatrics, which has been running off budget for a number of months.
**FY15 July Results $(1)M Off Target**

<table>
<thead>
<tr>
<th>FY15 July Results (1 month)</th>
<th>Patient Care</th>
<th>Research &amp; Education</th>
<th>Total OHSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>(millions)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FY15 Annual Budget:**

<table>
<thead>
<tr>
<th></th>
<th>Patient Care</th>
<th>Research &amp; Education</th>
<th>Total OHSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td>$1,784</td>
<td>$602</td>
<td>$2,386</td>
</tr>
<tr>
<td>Expense</td>
<td>1,734</td>
<td>582</td>
<td>2,316</td>
</tr>
<tr>
<td>Operating income</td>
<td>50</td>
<td>20</td>
<td>70</td>
</tr>
</tbody>
</table>

**FY15 Monthly Budget:**

<table>
<thead>
<tr>
<th></th>
<th>Patient Care</th>
<th>Research &amp; Education</th>
<th>Total OHSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td>148.7</td>
<td>50.2</td>
<td>198.8</td>
</tr>
<tr>
<td>Expense</td>
<td>144.5</td>
<td>48.5</td>
<td>193.0</td>
</tr>
<tr>
<td>Operating income</td>
<td>4.2</td>
<td>1.7</td>
<td>5.8</td>
</tr>
</tbody>
</table>

**FY15 July Actual:**

<table>
<thead>
<tr>
<th></th>
<th>Patient Care</th>
<th>Research &amp; Education</th>
<th>Total OHSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td>150.9</td>
<td>41.1</td>
<td>192.0</td>
</tr>
<tr>
<td>Expense</td>
<td>145.7</td>
<td>41.6</td>
<td>187.3</td>
</tr>
<tr>
<td>Operating income</td>
<td>5.2</td>
<td>(0.5)</td>
<td>4.7</td>
</tr>
</tbody>
</table>

**Variance from Monthly:**

<table>
<thead>
<tr>
<th></th>
<th>Patient Care</th>
<th>Research &amp; Education</th>
<th>Total OHSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td>2.2</td>
<td>(9.0)</td>
<td>(6.8)</td>
</tr>
<tr>
<td>Expense</td>
<td>1.2</td>
<td>(6.9)</td>
<td>(5.7)</td>
</tr>
<tr>
<td>Operating income</td>
<td>$1.0</td>
<td>$(2.1)</td>
<td>$(1.1)</td>
</tr>
</tbody>
</table>
FY14 Investment Performance

- For the first time, consolidated cash & investments exceeded $1.5 billion, with $725 million directly on OHSU’s books and $780 million at the Foundations, mostly endowment and unexpended gift funds.

- The $725 million of OHSU cash & investments returned 4% or $29 million, slightly above benchmark.

- Solid returns were helped by repositioning during the year of fixed income investment management to JP Morgan, as well as the balanced mutual fund positions established in FY12.

- In particular, the $50+ million in the Vanguard 60% stock / 40% bond index fund returned 16.5%, with daily liquidity and very low fees.

- We are now turning attention to optimizing the smaller pools, including capital and debt service reserve funds, and projecting better our daily cash needs, where currently we secure a higher return on compensating balances applied to bank fees than from short-term interest rates.
Consolidated Investments Top $1.5B

Consolidated Cash & Investments at June 30, 2014
(OHSU $725m + Foundation $780m = Total $1,505m)

- Operating Funds: $107
- Fixed Income: $251
- Balanced Mutual Funds: $111
- Self-Insurance Fund: $89
- Project/Bond Funds: $75
- Quasi-Endowment: $92
- Foundation Current Funds: $294
- Foundation Life Income: $61
- Foundation Endowment: $425
OHSU-Held Cash & Investments at $725M

OHSU Cash & Investments by Fund Manager at June 30, 2014
(Total = $725m)

- US Bank Operating $107
- Fixed Income (moved from Union to JPM) $251
- OHSUF Quasi-Endowment $92
- Union/US Bank CLSB/Bond $75
- Wells Capital Self-Insurance $89
- PIMCO Balanced $52
- Vanguard Balanced $59
Repositioning of Asset Mix During FY14

Change in Asset Classes from June 30, 2013 to June 30, 2014

6/30/13 Total = $771

- Quasi-Endowment: $83, 11%
- Balanced Mutual Funds: $97, 13%
- Corporate/Other bonds: $128, 17%
- Treasury/US Agency: $185, 24%
- Commercial Paper/CDs: $138, 18%
- Cash: $120, 16%
- Asset-Backed/Other: $20, 3%

6/30/14 Total = $725

- Quasi-Endowment: $92, 13%
- Balanced Mutual Funds: $111, 15%
- Corporate/Other bonds: $133, 18%
- Treasury/US Agency: $144, 20%
- Commercial Paper/CDs: $57, 8%
- Cash: $129, 18%
- Asset-Backed/Other: $59, 8%
Repositioning of Maturities During FY14

Change in Maturities from June 30, 2013 to June 30, 2014

6/30/13 Total = $771

- 5+ Years $54 7%
- 3 - 5 Years $33 4%
- 1 - 3 Years $206 27%
- 90 Days - 1 Year $182 24%
- 0 - 90 Days $296 38%

6/30/14 Total = $725

- 5+ Years $51 6%
- 3 - 5 Years $114 16%
- 1 - 3 Years $216 30%
- 90 Days - 1 Year $64 9%
- 0 - 90 Days $280 39%

6/30/13 - 6/30/14

- 5+ Years $7
- 3 - 5 Years $81
- 1 - 3 Years $16
- 90 Days - 1 Year $2
- 0 - 90 Days $14

6/30/13 Total = $771
6/30/14 Total = $725
Cumulative Dollar Returns in FY14

Cumulative Dollar Returns by OHSU Fund Group - 12 Months Ending June 30, 2014 (000)
Cumulative Percentage Returns in FY14

Cumulative Percentage Returns by OHSU Fund Group - 12 Months Ending June 30, 2014

- Quasi-Endowment
- Vanguard
- PIMCO
- Fixed Income
- Self-Insurance
- Project/bond funds
- Operating Funds
OHSU and The End of AIDS:
“Bench to Bedside” Development of Effective Preventative and Therapeutic HIV Vaccine at OHSU’s Vaccine and Gene Therapy Institute

Louis J. Picker, M.D.
Vaccine and Gene Therapy Institute
Oregon Health & Science University
Even in the era of effective anti-retroviral therapy, there were still 2.1 million new HIV infections, and ~1.5 million AIDS deaths in 2013 . . .

And there are almost as many people currently living with HIV (35 million) as have died from HIV since the start of the epidemic (39 million)
A New Concept in Vaccine Development: Development of “Effector Memory” Vaccines with Cytomegalovirus (CMV) Vectors

Louis Picker  Jay Nelson  Klaus Früh  Scott Hansen  Mike Axthelm

Patrizia Caposio  Dan Streblow  Jonah Sacha

Oregon National Primate Research Center
Starting in the late 1990’s, a comparative analysis of immune responses to different human viruses led me to conclude that one virus, Cytomegalovirus (CMV) was very different from the others.

The T cells elicited by CMV were extraordinarily high frequency, widely distributed in both lymphoid and non-lymphoid tissues, effector differentiated, and maintained for life . . .

In effect, these large populations of CMV-specific T cells were perpetually “armed and ready” to confront their targets . . . And thus able to mediate continuous, efficient immune surveillance!

In theory, these characteristics would be ideal for a vaccine against pathogens that have evolved to evade slowly developing conventional immune responses . . . in particular HIV and its simian counterpart SIV.
Starting with a single R01 grant from the NIH in 2004...

We used the SIV-rhesus macaque model to emphatically prove our point:

Effector memory T cell responses are associated with protection of rhesus monkeys from mucosal simian immunodeficiency virus challenge

LETTER

Profound early control of highly pathogenic SIV by an effector memory T-cell vaccine

And with this breakthrough, our group, through 2014, has obtained more than 20 government and Foundation grants based on the CMV vector/effector memory T cell vaccine concept, which together include over $100,000,000 in total awarded funds!
Culminating in the $25,000,000 award from the Gates Foundation 2 weeks ago . . .

Clinical Development Pathway (preventative HIV vaccine)

- Pre-clinical prototype vector validation
- Prototype vector manufacture
- Phase 1 assessment of prototype vector (safety/immunogenicity) (9/2016)
- Pre-clinical 2nd gen. vector validation
- 2nd gen. vector manufacture
- Phase 1 assessment of 2nd gen. vector(s) (safety/immunogenicity) (2019)
- Phase 2/3 assessment of 2nd gen. vector(s) (safety/immunogenicity and efficacy*) (2021-2124)
- Phase 2/3 clinical trial planning
- Licensure

OHSU scientist awarded $25 million grant to further HIV vaccine research

09/03/14 Portland, Ore.

Grant will bolster research led by Louis Picker on vaccine candidate that successfully fights similar virus in monkeys

Oregon Health & Science University researchers have received a $25 million grant from the Bill & Melinda Gates Foundation to advance work on a promising vaccine candidate that may someday prevent or cure infection with HIV, the virus that causes AIDS.
Perhaps the most remarkable aspect of our work to date is the finding that not only do CMV vector-elicited T cell responses control SIV infection, but they actually eliminate it over time . . .

Long-term protected (RhCMV/SIV vector-vaccinated)

SIV+ Monkeys on Anti-Retroviral Drugs

SIV- Monkeys

Vaccinated Monkeys 3 Years After SIV Challenge
Thus, for the first time, a vaccine-elicited immune response has been able to clear a highly aggressive, AIDS-causing virus!

If CMV vectors can eliminate SIV in the setting of preventative vaccination, it’s possible that these vectors could do the same as a therapeutic vaccine for already SIV+ animals on anti-retroviral therapy . . . and if we can cure SIV+ monkeys . . .

Why not HIV+ people?

We believe that our CMV vector technology will be a critical component of an HIV cure, giving us a once in a generation opportunity to make a huge difference to global health: the end of AIDS!

We are thus organizing and hoping to fund . . .

A New Initiative: An HIV Cure Program at OHSU

A 10 year “Manhattan” Project to Develop Curative Therapy for HIV/AIDS
The OHSU Radiochemistry Research Center (RCRC): Vision and Opportunities

William Rooney, PhD
Senior Scientist and Director
Advanced Imaging Research Center
Molecular imaging of Alzheimer’s disease

Maruyama et al, 2013
Molecular Imaging via Positron Emission Tomography (PET)

Volkow N D et al. PNAS 1997;94:2787-2788

©1997 by National Academy of Sciences
Sophisticated Chemistry Enables PET Molecular Imaging

$^{11}$C clorgyline

$^{11}$C methylphenidate

$^{11}$C deprenyl

$^{11}$C raclopride
Cyclotrons have some history
Primary hardware components of the RCRC

Cyclotron - isotope generation

<table>
<thead>
<tr>
<th>Isotope</th>
<th>Half-life (min)</th>
<th>Maximum positron energy (MeV)</th>
<th>Position range in water (FWHM in mm)</th>
<th>Production method</th>
</tr>
</thead>
<tbody>
<tr>
<td>$^{11}\text{C}$</td>
<td>20.3</td>
<td>0.96</td>
<td>1.1</td>
<td>cyclotron</td>
</tr>
<tr>
<td>$^{13}\text{N}$</td>
<td>9.97</td>
<td>1.19</td>
<td>1.4</td>
<td>cyclotron</td>
</tr>
<tr>
<td>$^{15}\text{O}$</td>
<td>2.03</td>
<td>1.70</td>
<td>1.5</td>
<td>cyclotron</td>
</tr>
<tr>
<td>$^{18}\text{F}$</td>
<td>109.8</td>
<td>0.64</td>
<td>1.0</td>
<td>cyclotron</td>
</tr>
</tbody>
</table>

Radiochemistry/Radiopharmacy

$^{18}\text{FDG}$, $^{18}\text{FMISO}$, $^{11}\text{C}$-PBB3

$^{13}\text{NH}_3$, $^{15}\text{OH}_2$

Tracer administration/subject monitoring

Advanced Imaging Technologies

Acquisition, archiving, and processing for clinical, pre-clinical, and other samples
Hardware is important, but people are crucial

Jeanne Link, PhD     Kenneth Krohn, PhD

Areas that will benefit from RCRC capabilities

- Neuroscience, Neurology
- Cardiology
- Cancer
- Endocrinology
- Infectious disease
- Immunology
- Pathology

Assuring a Future in US-Based Nuclear and Radiochemistry Expertise, 2012
OHSU has significant capabilities in advanced imaging technologies

**Advanced Imaging Research Center (AIRC)**
- 7T/90 cm
- 3 T MRI
- 7 T MRI
- 11.75 T MRI
- 8.5 T NMR/MRI
- 3T MRI ONPRC

**OHSU Center for Spatial Systems Biomedicine (OCSSB)**
- Titan Krios
- Helios Nanolab
- Technai
- PALM
OHSU has deployed a range of technologies that support imaging over a tremendous spatial scale.
The RCRC Program

**OPTION 4:**
**NO COMMERCIAL**

- **LEVEL 1:** 4,180 GSF
- **LEVEL B1:** 3,800 GSF
- **TOTAL:** 7,980 GSF

Option 4 eliminates the Commercial Partner function. The remaining program is placed on two levels with a mechanical penthouse. The cyclotron is on level one with the synthesis lab for research. Level two houses the Research Quality Assurance along with general areas. This option results in a smaller footprint in the courtyard due to the removal of the Commercial Partner and one cyclotron.
The RCRC Program
THE KNIGHT CANCER CHALLENGE

HOW MUCH RAISED? More than $431 million*

of the $500 million needed by February 4, 2016, World Cancer Day, to activate an additional $500 million gift from Nike co-founder Phil Knight and his wife, Penny.

HOW MANY DONORS? A lot.
6,296+ donors to date from all 50 states, the District of Columbia and gifts from outside the United States

WHERE FROM? All over.
56 donors from Florida
51 donors from New York
29 donors from Minnesota
25 donors from Texas
8 donors from the United Kingdom
3 donors from Canada
2 donors from Taiwan, Republic of China

HOW MANY $1 MILLION+ GIFTS?
Thirty five.
6 Anonymous
19 from Oregon
4 from Washington
1 from California
1 from Michigan
1 from Minnesota
2 from New York
1 from Wyoming

76% of donors from Oregon
24% from outside Oregon

WHICH ORGANIZATIONS SUPPORT THIS? Here are a few.
American Cancer Society
Dutch Bros Coffee
FEI
Full Sail Brewing Company
Heathman Hotel
Hoffman Construction Company
Hyundai Hope on Wheels

*Includes $200 million from State of Oregon

Portland Winterhawks
Reese Family Foundation
Safeway Foundation
The Standard
United Way
Wieden + Kennedy
Willamette Dental Group
OHSU Philanthropy
(non-challenge) FY 2014 and FY 2015 to date (7/1/13 through 8/31/14)

Giving snapshot:

- How much raised? - $134,721,903
- How many donors? 13,486
  - from all 50 states, the District of Columbia and gifts from outside the United States
  - 72% from Oregon
  - 28% from outside of Oregon
- How many $1 million+ gifts?
  - 22 $1 million+ gifts
    - 14 from Oregon
    - 2 from Washington
    - 2 from California
    - 1 from Illinois
    - 3 anonymous

Giving by designation
(FY14 and FY15 to date)

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research</td>
<td>$50,258,745</td>
</tr>
<tr>
<td>Unrestricted</td>
<td>$38,349,634</td>
</tr>
<tr>
<td>Program Support</td>
<td>$24,520,676</td>
</tr>
<tr>
<td>Student Support / Education</td>
<td>$15,259,317</td>
</tr>
</tbody>
</table>

Top designations for non-Knight Cancer Challenge gifts:

- $25 million HIV Vaccine Research
- $13.9 million Parkinson's Center Support
- $4.8 million Doernbecher Children's Hospital/Pediatrics
- $4.1 million Casey Eye Institute
- $4 million Driskill Translational Research Training Program (SOM/neurology)
- $4 million Casey Eye Institute for Glaucoma, Macular Degeneration and Inpatient Care
- $2.87 million Vaccine and Gene Therapy Institute
- $2.4 million 40% to Neurosciences; 40% to OCELL; 20% OHRC
- $2.4 million CER Oregon State Elks Association Children's Eye Clinic
- $2.25 million Center for Ethics in Health Care
- $2.12 million Endowed Scholarship
- $2 million Endowed Lectureship
- $2 million Surgery Education
- $1.5 million Multiple Sclerosis Research
- $1.5 million Regenerative Medicine - Nerve Regeneration
- $1 million PKAN Forward Research
- $1 million The Campbell Research Laboratory at Casey Eye Institute

* Includes inquest intentions