Introduction

Background
The Oregon Center for Nursing (OCN) and its many partner organizations have been made increasingly aware of perceived difficulties among newly-licensed nurses in securing their first job as a registered nurse in Oregon. The number of graduates of Oregon–based undergraduate nursing programs has increased by 66% over the past decade (OCN, 2014), while the projected growth of new job openings for registered nurses is approximately 22% from 2008-2018 (Turner, 2010). Moreover, and from OCN’s 2010 estimates, both the vacancy and turnover rates in existing registered nurse positions have decreased in hospitals and long-term care facilities where a majority of newly-licensed nurse seek employment (OCN, 2011). Hence, there is a potential supply-demand surplus for newly-licensed registered nurses in Oregon.

Recent insights from Arizona and California paint a general picture of improvement in employment among newly-licensed nurses, and also highlight important differences in rates of employment comparing baccalaureate degree with associate degree nurses (Randolph, 2014; California Institute for Nursing & Health Care, 2015). Although the slight majority of Oregon nurses hold a baccalaureate degree or higher (53%), there are a sizeable number of registered nurses who hold an associate’s degree (40%) (Oregon Health Authority, 2015). Thus, new insights into the employment of newly-licensed nurses in Oregon in general, and by level of education, would help develop evidence-based guidance for new graduates, provide guidance to employers who may be seeking newly-licensed nurses, help align recommendations about entry-level nursing work settings and practice areas from undergraduate programs with the current work environment, and help forecast the need for registered nurse-to-baccalaureate of science in nursing programs.

Design
In 2015, OCN established a New Graduate Study Advisory Committee consisting of practice, academic and research partners from around the state of Oregon. Leveraging the expertise of the advisory committee and harmonizing data collection to be consistent with similar endeavors in regional states, OCN designed and administered a survey of newly-licensed Oregon nurses.

The survey was designed to capture demographic and educational characteristics, discover detailed information on search strategies and newly-licensed nurses’ first job post licensure, or ongoing search strategies for those not currently employed as registered nurses. There was a maximum of 28 items for employed newly-licensed nurses, and a maximum of 25 items for those not yet employed as registered nurses. The survey was estimated to take no more than 15 minutes to complete.

Email addresses of all nurses licensed by examination between September 1, 2014 and August 31, 2015 were obtained from the Oregon State Board of Nursing; the list included those licensed by examination in Oregon who were educated in a foreign country. The anonymous survey was administered via SurveyMonkey® and launched on September 1, 2015. A total of 1338 newly-licensed nurses had valid email addresses.
Results

Demographics
A total of 579 newly licensed nurses responded to the survey (43.3% response rate). The average age of newly licensed nurses was 30.4±8.0 years (range = 20 to 59 years), and the vast majority of respondents (85.0%) were female. Males made up 13.8% of the sample and an additional 1.2% identified as “Other”. Most newly licensed nurses (85.1%) self-identified as being Non-Hispanic and Caucasian. 3.9% of respondents identified as being Hispanic; 9.7% identified as being Asian, 3.5% identified as being American Indian or Alaskan Native, and 1.9% identified as being Black or African American.

Geography
Newly-licensed nurses were living and working/apply for work all across Oregon (FIGURE 1), with the exceptions of Gilliam, Grant, Harney, Morrow, Sherman, Wallowa and Wheeler—counties where the fewest registered nurses are working in general (Oregon Health Authority, 2013).
Nursing School Information

A majority of newly licensed Oregon nurses graduated from nursing school in 2015 (70.8%) or 2014 (22.3%) (FIGURE 2). 73.6% of newly licensed nurses attended Oregon-based nursing programs, whereas others attended nursing programs outside of Oregon (20.4%) or a nursing program in a foreign country (6.0%). At the time of the survey, 43.2% of respondents had an associate’s degree in nursing (ADN), 56.2% had a baccalaureate degree in Nursing (BSN) and the remaining 0.7% had a master’s degree in nursing (MSN) (FIGURE 3).

Employment Overview

Overall, (81.1%) of newly-licensed nurses (n=463) were currently employed as registered nurses (FIGURE 4). There were no significant differences in age, gender, ethnicity or degree (BSN = 81.4% and ADN = 81.2%) comparing respondents who were currently employed as nurses with those who were not. There were considerable differences in design and definitions comparing these results with similar work conducted in other states; but the newly-licensed nurse employment rate in Oregon was generally lower than Arizona (88.0%; Randolph, 2014) and higher than California (65.1%; California Institute for Nursing & Health Care, 2015). The newly-licensed nurse employment rate in Oregon was higher than the 2012 (77%; American Association of Colleges of Nursing, 2012) and the 2014 employment rate among newly-licensed nurses in the western states (68%; Feeg, 2015). Finally, the newly-licensed nurse employment rate in Oregon was slightly lower than the 2015 four to six month employment rate among newly-licensed nurses in the western states (83%; American Association of Colleges of Nursing, 2015).

Of the 249 respondents with an associate’s degree in nursing, 95.9% indicated they planned to attend an RN-to-BSN completion program within the next five years, and an additional 1.6% indicated they planned to attend an RN-to-BSN completion program within six to 10 years. Only 2.4% indicated they did not plan to attend an RN-to-BSN completion program. This result is higher than national averages, where 63% of ADN graduates indicate they plan to attend RN-to-BSN completion programs (Feeg, 2015).
There were significant differences, however, in the rates of employment as a nurse by year of graduation ($\chi^2 = 25.2, p<0.001$) (FIGURE 5); the highest rate of employment as a newly-licensed nurse was observed among 2014 graduates (94.6%) and the lowest rates of employment as a nurse were observed among those who graduated nursing programs prior to or during 2012 (60.9%). There also were significant differences in the rates of employment as a nurse by location of nursing program attended ($\chi^2 = 9.0, p=0.011$) (FIGURE 6); the highest rate of employment as a newly-licensed nurse was observed among those who attended Oregon-based programs (83.1%), and the lowest rate of employment as a nurse was observed among respondents who attended nursing programs in foreign countries (62.9%).

More employed newly-licensed nurses in the tri-county area (i.e. Clackamas, Multnomah and Washington counties) were BSN-prepared, and more employed newly-licensed nurses outside of the tri-county area were ADN-prepared ($\chi^2 = 34.3, p<0.001$) (FIGURE 7). These findings are consistent with the distribution of programs across Oregon with more BSN programs in the tri-county area and more ADN programs outside of the tri-county area. Finally, a greater proportion of unemployed newly-licensed nurses lived in the tri-county area compared with other regions of Oregon ($\chi^2 = 13.94, p<0.001$) (FIGURE 8).
Employed Newly-Licensed Nurses

The vast majority (83.1%) of newly-licensed nurses who were employed secured an offer within one to three months, and another 10.6% secured an employment offer within four to six months of obtaining licensure (FIGURE 9). Overall, 76.0% of all newly-licensed Oregon nurses secured employment within six months of obtaining licensure (FIGURE 10).

Among respondents who were currently employed as nurses, 68.6% submitted 10 or fewer job applications, and another 12.1% submitted between 11 and 20 applications before securing employment (FIGURE 11). 82.8% of employed newly-licensed nurses were working full-time, 6.9% were working part-time and 10.3% were working per diem or on-call. 87.3% of employed newly-licensed nurses had positions that offered benefits such as medical/dental insurance, sick leave and/or 401K.

Newly-licensed nurses used many strategies to help secure employment; 88.5% indicated that they used hospital/health facility websites, and fewer than half of respondents using other strategies (FIGURE 12).
Work Setting and Practice Area

With respect to the work setting of first nursing jobs post licensure, 68.1% of newly-licensed nurses secured employment in a hospital, 11.6% worked in nursing home/extended care/assisted living, 4.9% worked in community health, 4.2% worked in ambulatory care and 2.0% worked in home health. Nationally, 77.4% of newly-licensed nurses work in hospitals, 7.8% work in nursing homes, 1.7% work in community health, and 2.6% work in ambulatory care settings (Kovner, 2011). There were many differences between the work settings of first nursing jobs comparing BSN- and ADN-prepared nurses. For example, more newly-licensed nurses working in hospitals were BSN-prepared, and more newly-licensed nurses working in nursing home/extended care/assisted living were ADN-prepared ($\chi^2 = 18.4$, $p=0.031$) (FIGURE 13). These data are consistent with national findings that 72% of BSN graduates are employed in hospitals compared to 61% of ADN graduates (Auerbach, 2015).

80.4% of employed newly-licensed nurses indicated that a hospital would be their ideal work setting while only 68.1% were currently working in a hospital (FIGURE 14). In contrast, only 0.5% of employed newly-licensed nurses indicated that working in a nursing home/extended care/assisted living setting would be ideal while 11.6% were currently working in these settings. Less than 2.5% indicated that either their first or ideal nursing job was in an academic setting (educational/research), school health service, public health, or correctional facility. Overall, 64.6% of newly-licensed nurses were working in the setting they consider to be ideal.

FIGURE 13
First Post-Licensure Work Setting Comparing BSN and ADN Newly-Licensed Nurses

<table>
<thead>
<tr>
<th>Work Setting</th>
<th>BSN (%)</th>
<th>ADN (%)</th>
<th>Total (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospital</td>
<td>60.5</td>
<td>74.2</td>
<td>68.1</td>
</tr>
<tr>
<td>Nursing Home/Extended Care</td>
<td>16.8</td>
<td>7.9</td>
<td>11.6</td>
</tr>
<tr>
<td>Community Health</td>
<td>4.8</td>
<td>4.8</td>
<td>4.9</td>
</tr>
<tr>
<td>Other</td>
<td>5.3</td>
<td>4.4</td>
<td>4.7</td>
</tr>
<tr>
<td>Ambulatory Care</td>
<td>6.3</td>
<td>4.0</td>
<td>4.7</td>
</tr>
<tr>
<td>Home Health</td>
<td>3.2</td>
<td>1.2</td>
<td>2.0</td>
</tr>
</tbody>
</table>

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Regarding the practice area of first job post licensure, a majority of newly-licensed nurses either worked in medical surgical nursing (27.5%) or acute/critical care (24.2%). Less than 1.5% worked in occupational health, school health, trauma, palliative care or public health (FIGURE 15).

More newly-licensed nurses reported wanting to work in acute/critical care, maternal-child health, pediatrics/neonatal, women’s health, oncology and community health compared with those who are currently working in those specialty area. In contrast, more newly-licensed nurses are working in medical surgical nursing and in geriatrics/gerontology than the number of newly-licensed nurses who indicate these
practice areas as being ideal. Less than 2.5% indicated that either their first or ideal job was in the practice area of public health, palliative care, occupational health, rehabilitation, school health, adult health/family health, or home health.

In sum, 40.6% of newly-licensed nurses were working in what they considered to be their ideal practice area (FIGURE 16). Information on first versus ideal work settings and practice areas is important because turnover is more likely among nurses not working in areas they consider to be ideal (Beecroft, 2008).

Employed newly-licensed nurses chose their first job post licensure for a variety of reasons, including the type of unit/setting (64.7%), location (47.3%) and availability of openings (43.1%) among many other factors (FIGURE 17).

Even though work settings and practice areas were not ideal for all respondents, the vast majority (91.0%) of newly-licensed nurses were either satisfied or highly satisfied with their first nursing job post licensure (FIGURE 18).
Unemployed Newly-Licensed Nurses

Overall, 18.9% of newly-licensed nurses (n=108) were not currently employed as a nurse (FIGURE 19). Among newly-licensed nurses who were not employed, a vast majority (89.9%) were currently looking for work as a registered nurse, and 45.8% were employed either in a healthcare job (29.2%) or non-healthcare job (16.7%); 54.2% were not employed (FIGURE 20).

Among newly-licensed nurses who were not employed, a majority (64.6%) were currently engaged in continuing education, and 42.7% were volunteering in a health related services/programs. Newly-licensed nurses who were not employed submitted considerably more job applications for nursing positions compared with employed newly-licensed nurses (z=6.2, p<0.001) (FIGURE 21). More than one-third have applied for 10 or fewer nursing jobs; hence, applying for more than 10 nursing jobs may be part of the solution to finding employment for some newly-licensed nurses.

Almost all newly-licensed nurses who were not employed (99.0%) used hospital/health facility websites as a method of finding employment, 56.3% used general job advertisements, and slightly more than half used referrals as a method of finding employment (FIGURE 22).
The vast majority of unemployed newly-licensed nurses (95.8%) applied for nursing positions in hospitals, whereas fewer than 38.0% applied for nursing positions in other work settings (FIGURE 23). Only 68.1% of newly-licensed nurses in this survey secured employment in a hospital. Thus, seeking employment outside of the hospital setting may enhance newly-licensed nurses’ success in securing employment in a nursing job.

The majority of unemployed newly-licensed nurses applied for nursing positions in medical surgical or acute/critical care, whereas fewer than half applied for nursing positions in other practice areas (FIGURE 24). Only 27.5% of newly-licensed nurses in this survey worked in medical surgical nursing and only 24.2% worked in or acute/critical care. Hence, seeking employment in alternative practice areas may enhance newly-licensed nurses’ success in securing employment.

Unemployed newly-licensed nurses reported being willing to accept nursing jobs entailing a variety of shifts/work hours; 38.5% of unemployed newly-licensed nurses reported being willing on-call/per-diem jobs (FIGURE 25).

The number one reason employers have provided for not offering newly-licensed nurses jobs is the lack of experience (76.0%) followed by no positions being available (FIGURE 26). Almost 19% of unemployed newly-licensed nurses had been told by employers that a position requires a baccalaureate degree in nursing.
Transition to Practice/Residency Programs

Participants were asked to respond to several questions related to whether or not they participated in a formal transition to practice or new graduate residency program after graduation. It was left up to the participant to discern if their post-graduation experiences constituted a formal transition to practice/residency program.

After graduation, 38.3% of employed newly-licensed nurses participated in transition to practice/residency programs whereas 61.7% did not. Of those who participated in transition to practice/residency programs, 97.1% were paid for participating in these programs and 89.0% indicated that participation in these programs helped them obtain employment. Newly-licensed nurses indicated several incentives influenced their participation in transition to practice/residency programs, including the opportunity to increase skills, the opportunity to gain experience, and the promise of employment pending completion of the program (FIGURE 27).

Among employed nurses, 27.7% of newly-licensed nurses working in the tri-county area participated in transition to practice/residency programs, 45.8% of newly-licensed nurses working outside the tri-county area participated in transition to practice/residency programs, and 38.0% of newly-licensed nurses working outside of Oregon participated in transition to practice/residency programs ($\chi^2 = 13.8, p=0.001$) (FIGURE 28).

After graduation, 3.1% of unemployed newly-licensed nurses participated in a transition to practice or new graduate residency program. Of unemployed newly-licensed nurses, 78.1% nurses indicated that they would be willing to participate in transition to practice/new graduate residency programs offering paid internships, 49.0% indicated that they would be willing to participate in programs that provide opportunities to work in non-acute healthcare facilities, 20.8% indicated that they would be willing to participate in programs offering unpaid internships, and 10.4% indicated that they would be willing to participate in programs that require payment or tuition from them.
Discussion

Upon graduation from a nursing program, newly-licensed nurses are understandably anxious to find jobs and put their skills to good use. Educators and employers also have an interest in engaging this new workforce. This study provides a glimpse of the experiences newly-licensed nurses have following licensure in 2015.

Though findings from this study can be educational for current nursing students, there are additional factors which may change the job market for new licensees in the future. Changes in how and where healthcare is delivered should also be taken into consideration when considering a first post-licensure job. In the future, more care is predicted to take place in community-based settings as opposed to hospitals. While the majority of participants in this study found jobs in hospital settings, the future workforce may not be primarily in the hospital (Vesely, 2014). Students should keep an open mind about where they search for work, and nursing program coursework should prepare students to work in a wide variety of work settings.

Employers also have a role in transitioning newly-licensed nurses into the workplace. Unemployed newly-licensed nurses report the main reason for not successfully obtaining employment is due to lack of experience. Employers can develop and encourage new nurses to utilize transition to practice programs to gain experience needed to fill open positions, particularly in anticipated growth areas such as long term care, public health, and other community-based settings.

Additional iterations of this study will illuminate if the job outlook for newly-licensed nurses change in the future, and if the changes follow predictions related to healthcare transformation. The following recommendations can be considered to support and engage the newly-licensed nurse workforce.

Main Recommendations

For newly-licensed nurses:
1. Utilize a variety of job seeking methods including using hospital/health facility websites, past clinical experiences, general job advertisements and referrals as a method of finding employment.
2. Seek work in a variety of practice settings outside of hospitals including nursing home/extended care/assisted living, community health, ambulatory care and home health.
3. Seek work in a variety of practice areas including acute care/critical care, adult health/family health, community health, geriatrics/gerontology, home health, maternal-child health, medical surgical, oncology, pediatrics/neonatal, public health, rehabilitation and women’s health.
4. Utilize job placement resources offered by nursing programs and/or educational institutions.
5. As the vast majority of newly-licensed nurses who are employed are satisfied with their job even if it is not an ideal environment, keep an open mind when exploring job opportunities.

For Employers:
1. Develop and publicize formal transition-to-practice programs to encourage and support newly-licensed nurses to seek employment.
2. Partner with undergraduate nursing programs to provide increased opportunities for students to experience a variety of settings and practice areas.
3. Post job openings on hospital/health facility websites and in general job advertisements; this is where newly-licensed nurses are looking for work.

For Nursing Programs:
1. Strongly encourage graduates to seek work in a variety of settings and practice areas; not all newly-licensed nurses will be able to find work in a hospital on a medical-surgical unit.
2. Partner with employers to facilitate opportunities for students to experience a variety of settings and practice areas.
3. Continue to assess the availability of in-state RN-to-BSN programs.
4. Develop tools for newly licensed nurses to identify and evaluate online RN-to-BSN programs for quality and personal learning styles and goals.
Study Team

Christopher S. Lee, PhD, RN, FAHA, FAAN
Oregon Health & Science University School of Nursing

Jana Bitton, MPA
Executive Director, Oregon Center for Nursing

Kelley Illic, BA
Operations Manager, Oregon Center for Nursing

Claire Bream, RN, BSN
Bay Area Hospital

Bev Epeneter, EdD, MN, BSN
Linfield College School of Nursing

Troy Larkin, MN, RN
Providence Health & Services

Tricia Tully, RN, MS
Lane Community College

Kaye Wilson-Anderson, DNS, MSN, BSN
University of Portland

Peggy Wros, PhD, RN
Oregon Health & Science University School of Nursing
References


