Oregon Health Workforce Project

Nurse Practitioner Profile, 2000

Descriptive Report Series

Area Health Education Centers Program

OHSU

Where Healing, Teaching and Discovery Come Together

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Comments and questions regarding this report and requests for additional data/information should be directed to Beth Morris, Research Associate, OHSU-AHEC Program, 503-494-9647, morrisbe@ohsu.edu.

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ACKNOWLEDGEMENTS

We gratefully acknowledge the contributions of those who reviewed this report or provided administrative or technical support and extend a special thanks to those who sat on the Workforce Interest Group as well as the organizations they represent:

Nancy Abrams, Becki Anderson, Brad Angle, David Asaro, Jo Bell, JoAnn Bones, Joan Bouchard, Deborah Burton, Joy Conklin, Nora Cromley, Lisa Dodson, Diana Dolstra, Karen Eden, Tina Edlund, Eldon Edmundson, Don Feldman, Deborah Fisher, Don Girard, Dan Harris, Pam Hellings, Grant Higginson, Gary House, David Jones, Susan King, Rebecca Landau, John Mahaffy, Scott Manchester, Karen Normandin, Coleen Parra, Bob Ritson, Ted Ruback, Somnath Saha, Susan Sanzi-Schaedel, Louise Shores, Graham Slater, Julie Steding, Beverly Taylor, Martin Taylor, James Wallace, Karen Whitaker, Multnomah County School/Community Dental Health, Office of Community Colleges, Office of the Oregon Health Plan Policy and Research, Oregon Association of Hospital and Health Systems, Oregon Board of Dentistry, Oregon Board of Medical Examiners, Oregon Dental Association, Oregon Dental Hygienists' Association, Oregon Department of Education, Oregon Employment Department, Oregon Health Division, Oregon Health Policy Institute, OHSU Department of Family Medicine, OHSU Physician Assistant Program, OHSU School of Dentistry, OHSU School of Medicine, OHSU School of Nursing, Oregon Medical Association, Oregon Nurses Association, Oregon Office of Rural Health, Oregon Society of Physician Assistants, Oregon State Board of Nursing, Oregon State Department of Labor, and Salem Hospital.

We would also like to thank those organizations that provided funding for this project:

The Northwest Health Foundation, the Office of Rural Health, the Oregon Board of Dentistry, the Oregon Board of Medical Examiners, the Oregon Health Division, and the Oregon State Board of Nursing.

INTRODUCTION

"Nurse shortage looms." "Impending oversupply of physicians in United States." "Department of Health and Human Services eyes pharmacist shortage." Headlines like these appear frequently in today's news. They suggest that potential health workforce crises are beginning to emerge nationwide, and the issue has become the subject of much professional and political debate. But the headlines expose the ambiguities surrounding this complex issue. Some experts maintain that the nation is quickly approaching crises in the availability of workers across a variety of health professions, including nursing, dentistry, pharmacy, and primary care. Others contend that there are adequate numbers of trained health professionals—the problem lies in how and where they are deployed. In the face of this uncertainty, one thing is apparent. We must develop a clear and accurate understanding of the issue in order to respond effectively and appropriately to local and regional health workforce requirements.

The reality is that the supply of and demand for health professionals fluctuates over time. We sometimes do not have enough health care professionals when and where they are needed, while at other times or in other places supply exceeds demand and/or need. Many factors interact to account for these conditions, including economics, education, advances in technology, demographics, politics, and providers' preferences and motivations. An under- or over-supply of resources directly affects the demand for and quality of care and the distribution, education, and deployment of the health workforce. Striking the right balance between supply, demand and need is a difficult task and is dependent, in part, on the availability of reliable and detailed information needed for evidence-based decision-making. The Oregon Health Workforce Project represents an attempt to address this need.

PROJECT OVERVIEW AND SCOPE

Access to health care lies at the heart of the Area Health Education Centers (AHEC) mission. Oregon's AHEC program provides educational programs designed to ensure that appropriately-trained health care providers will be available when and where they are needed. That is why the Oregon Statewide AHEC Program, along with its partners, took on the challenge of exploring factors related to Oregon's health workforce.

The Oregon Health Workforce Project represents a first-of-its-kind effort in this state to quantify the supply side of the health care delivery equation. With funding from the Northwest Health Foundation, a demonstration project was conducted by Oregon Health Sciences University's Oregon AHEC Program in conjunction with key stakeholders representing a variety of constituencies interested in issues surrounding health workforce requirements. The mission of the project was to demonstrate the feasibility of conducting comprehensive, coordinated surveys of six health professions within Oregon. Data collected as a result of this effort has yielded a rich source of information that describes these six professions. Thus this report, the second in a series of publications designed to profile a subset of health care providers in Oregon.

As a first step toward carrying out the project's mission, the Statewide AHEC Program convened a Health Workforce Interest Group in December 1998. Representatives from key organizations, agencies, educational institutions and health professions licensing boards were invited to

participate in a series of discussions to test the notion that there is a need for more and better health workforce information than are currently available and explore the prospect of developing a means for addressing that need.

Ultimately, key stakeholders agreed that a real need does, in fact, exist. The next step—creating a health workforce information system—proved a time- and resource-intensive effort. Members of the interest group developed surveys to collect data relative to six specific health professions—physicians, physician assistants, nurse practitioners, registered nurses, dentists, and dental hygienists. The survey was designed to answer questions such as:

- What does Oregon's health workforce "look like"?
- What is the demographic profile of Oregon's health workforce?
- What is the educational background of health care providers working in Oregon?
- Where do providers practice?
- In what types of organizations do health care professionals work?
- What roles do providers fill?
- What portion of provider time is allocated to patient care?
- What patients do health care professionals serve?
- How accessible are providers to the patient population?
- Are health care professionals satisfied with their careers?
- What career changes are providers planning?

The motivation behind answering these and similar questions was to generate a profile of Oregon's health professionals. In addition, key stakeholders hoped that by combining data from the new repository with companion data sets would lead to an improved understanding of Oregon's health workforce needs, projections of future demand, and estimates of anticipated workforce shortfalls or excesses. As the demonstration project moved forward, however, matters of sustainability and capacity emerged which led AHEC to move away from this rather ambitious goal toward a more attainable one—collecting data from targeted health professionals with the primary aim of describing Oregon's current health workforce.

GENERAL METHODOLOGY AND NURSE PRACTITIONER REPORT CONTENT

A mailing list containing the names of 1,569 nurse practitioners licensed in Oregon was obtained from the Oregon State Board of Nursing in the early part of 2000. The mailing list was reviewed and 86 licensees with addresses outside of the immediate geographic region were excluded from the mailing. An additional 24 surveys were excluded as they were returned undeliverable. Thus, 1,459 nurse practitioners licensed in Oregon were surveyed. A total of 912 completed surveys were returned for a response rate of 63%.

Ninety-one percent (91%) of all respondents indicated they currently practice in Oregon; data presented here are based on self-reports from these nurse practitioners (with the exception of the graph shown on page 7 which illustrates the employment status of nurse practitioners licensed in

Oregon). Data pertaining to practice location refers to primary place of work in all cases. Analyses of data relative to secondary place of work are not included in this report. Unless otherwise noted, calculations exclude missing and unknown values.

Results are first displayed in the aggregate and are followed by regional and specialty profiles. The report focuses on selected variables believed to be of greatest relevance to a diverse audience. Appendix D contains a list of all variables contained in the nurse practitioner data repository.

HOW TO USE THIS REPORT

Given that it was impossible for us to respond to the specific needs and interests of all individuals and constituencies interested in issues surrounding Oregon's health workforce within the scope of a single report, we determined that the purpose of this report should be to familiarize the reader with the Oregon Health Workforce Project and the data that has been collected as a result of this effort. This report begins by illustrating aggregate results of the nurse practitioner survey. A second section shows results by geographic region and specialty category. We suggest that the reader review this report in its entirety as many questions that arise upon initial examination of the data may be answered as the report progresses.

We caution readers to consider that survey results are subject to bias. While the entire population of nurse practitioners licensed in Oregon was surveyed, 63% of those surveyed actually responded. While this is considered to be a relatively high response rate, respondent bias remains an important consideration.

One method used to examine the magnitude of respondent bias is to compare the characteristics of respondents and non-respondents. Because the research design employed for this study did not allow us to identify non-respondents, application of this verification method was not possible. However, we did compare the demographic profile and geographic and specialty distributions of survey respondents against several external benchmarks for Oregon's overall nurse practitioner population. Results of this comparison indicate that the regional distribution of respondents and active licensees is similar. However, there appear to be differences in age, gender, race/ethnicity, and specialty mix. Survey respondents appear to be younger, are more likely to be female, and are less ethnically diverse compared to benchmark indicators for Oregon's nurse practitioner population. Respondents also represent a smaller percentage of Family Nurse Practitioners (25%) compared to Oregon Board of Nursing estimates (32%). The reader is advised to remain mindful of these factors when drawing conclusions about the universe of nurse practitioners. The magnitude of these limitations increases where data have been stratified by geographic region or specialty category.

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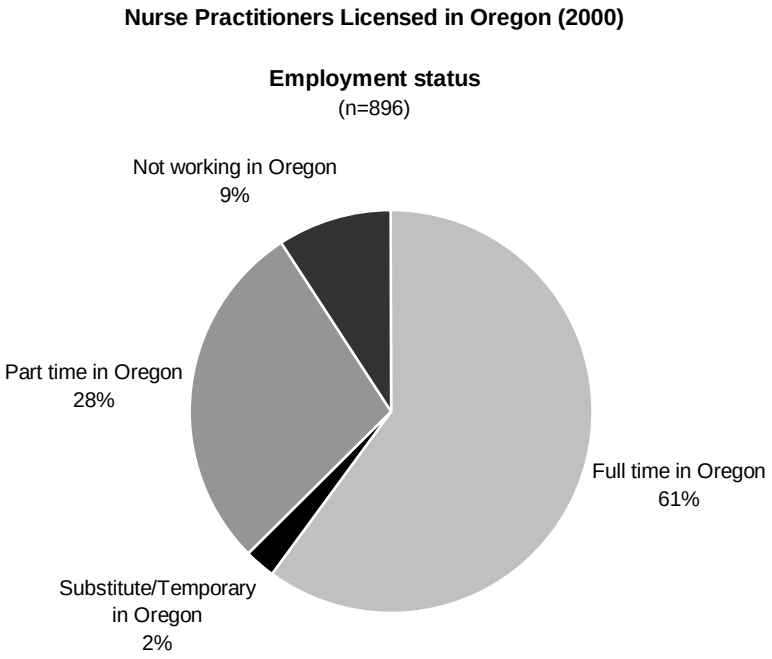
Profile of Survey Respondents
Aggregate Results

QUESTION

Are survey respondents who are licensed in Oregon practicing in Oregon?

• • •



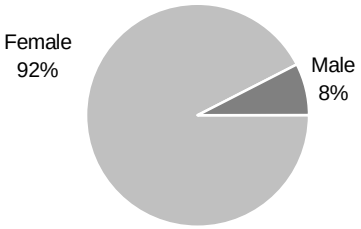
QUESTION

What is the demographic profile of survey respondents?

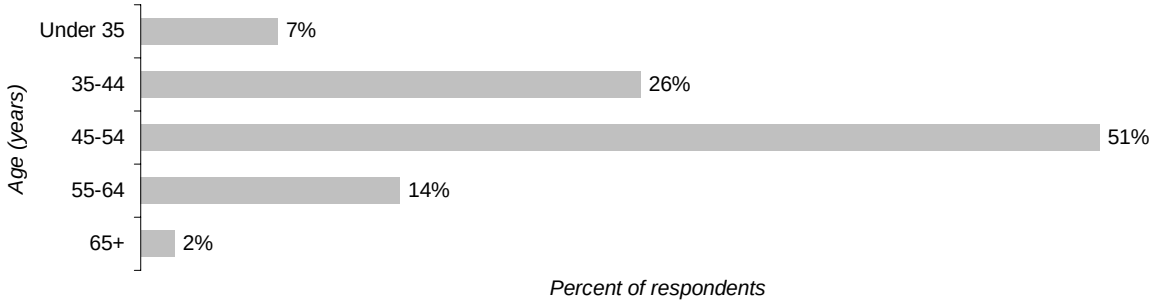
• • •

Nurse Practitioners Practicing in Oregon (2000)

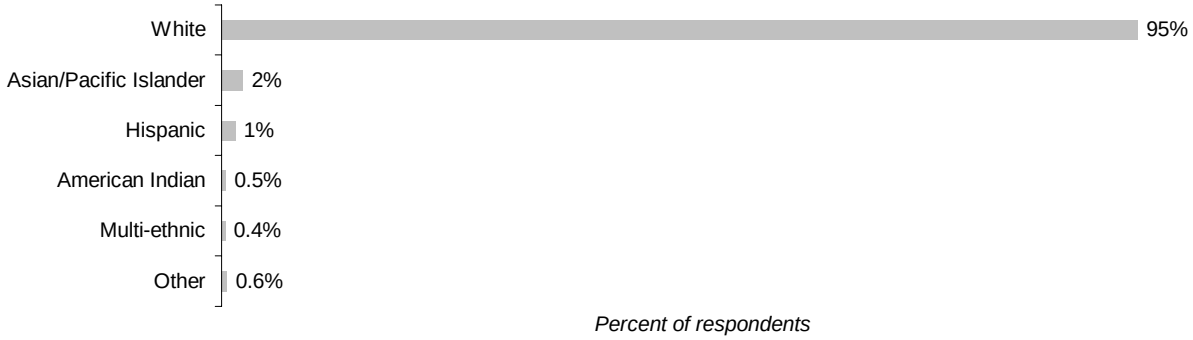
Gender
(n=807)



Age
(n=786)



Race/Ethnicity
(n=810)



QUESTION

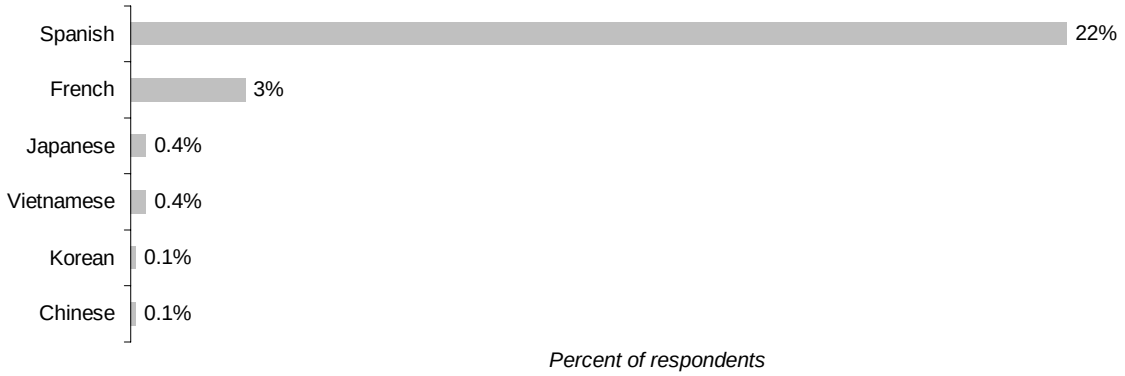
What languages do survey respondents speak?

• • •

Nurse Practitioners Practicing in Oregon (2000)

Languages spoken adequately for clinical purposes (other than English)

(n=813)



QUESTION

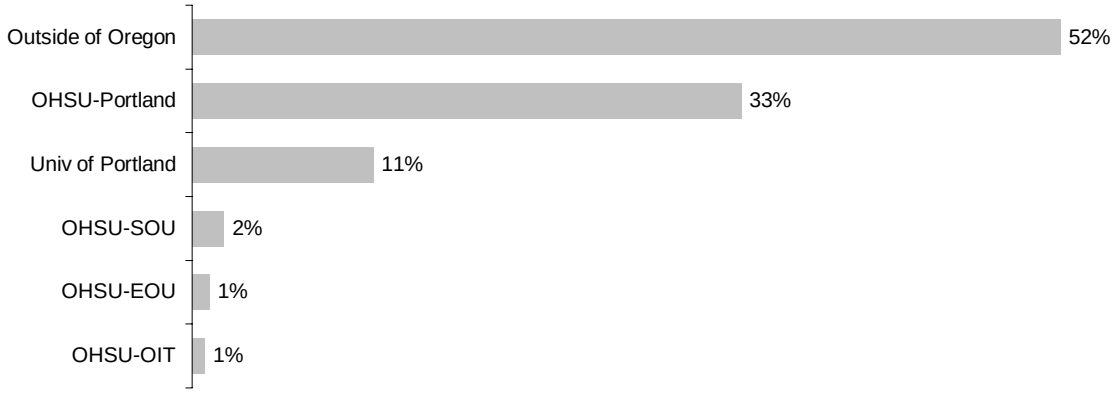
What is the educational background of survey respondents?

• • •

Nurse Practitioners Practicing in Oregon (2000)

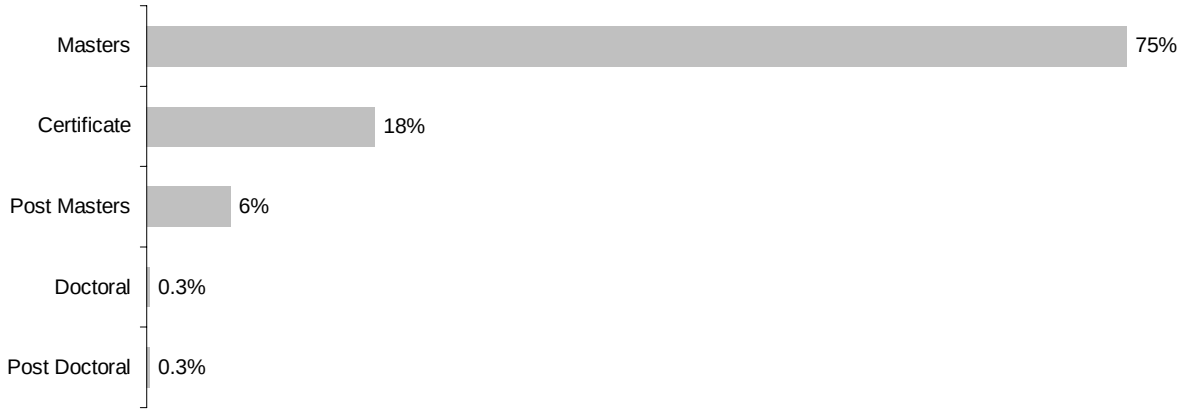
Professional education

Location of Nurse Practitioner program
(n=780)



Percent of respondents

Type of Nurse Practitioner program
(n=762)

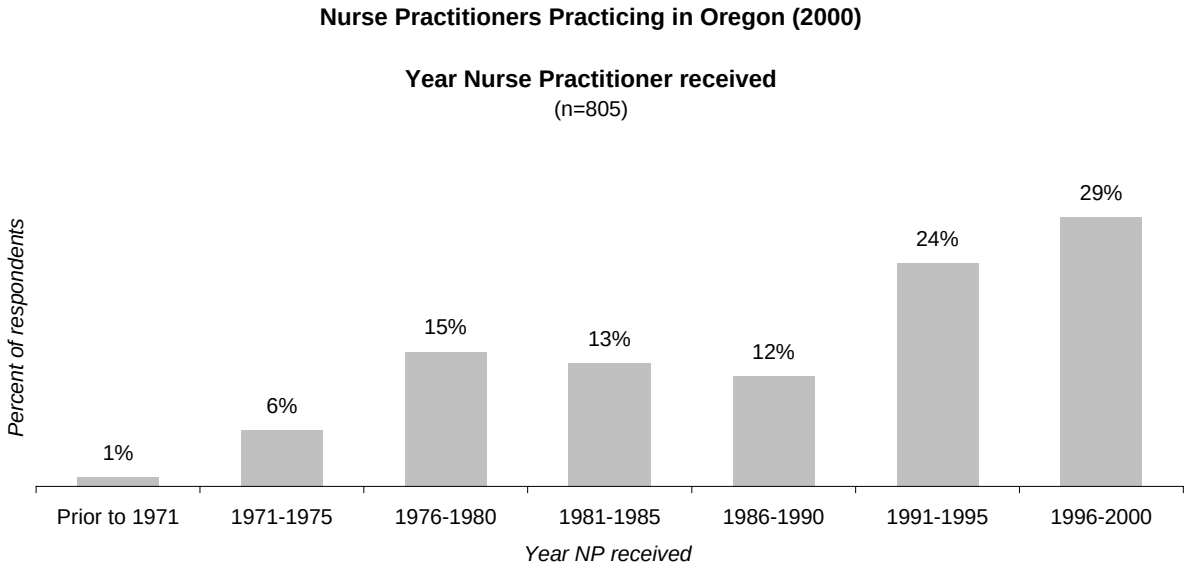


Percent of respondents

QUESTION

When did survey respondents complete nurse practitioner training?

• • •

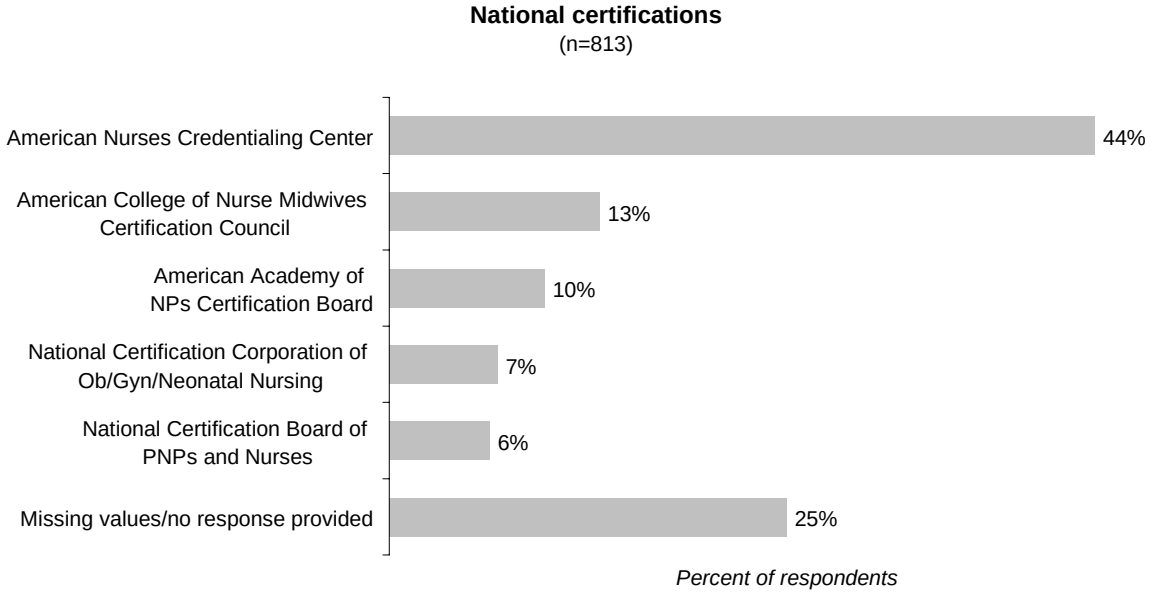


QUESTION

What national certifications do survey respondents hold?

• • •

Nurse Practitioners Practicing in Oregon (2000)



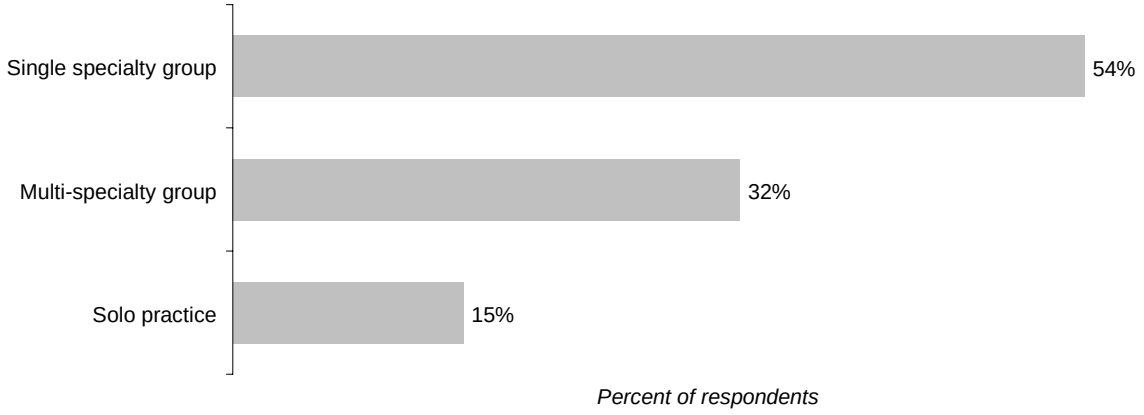
QUESTION

In what types of organizational settings do survey respondents practice?

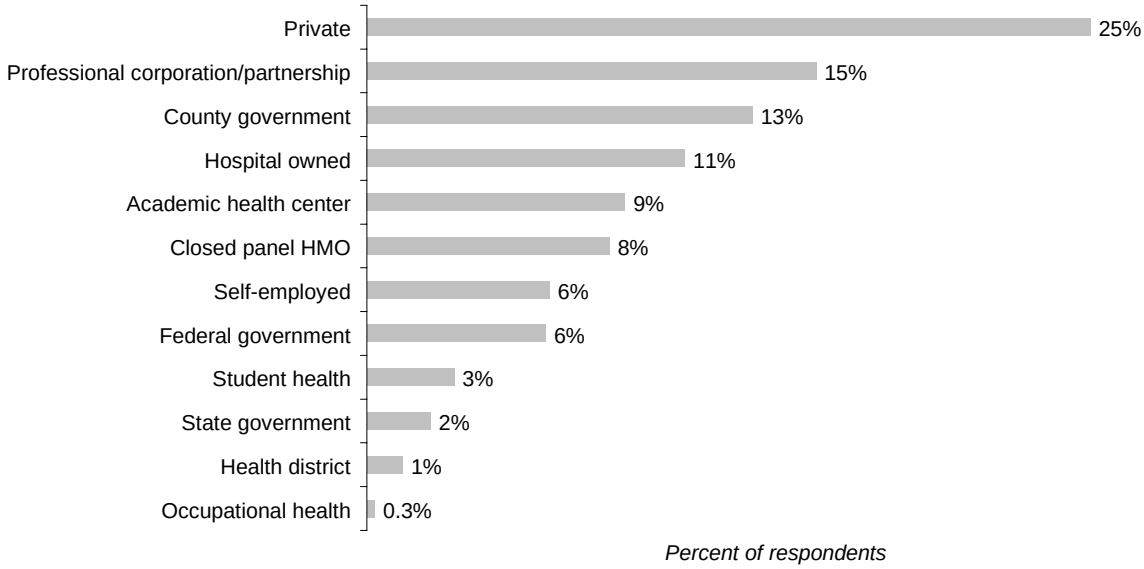
• • •

Nurse Practitioners Practicing in Oregon (2000)

Clinical practice type, primary place of work
(n=724)



Organizational structure of clinical practice, primary place of work
(n=738)



QUESTION

Where do survey respondents practice?

• • •

Nurse Practitioners Practicing in Oregon (2000)
Location of primary place of work by county

County	Percent of respondents	Number of respondents
Baker	0.0	0
Benton	2.6	21
Clackamas	9.2	73
Clatsop	1.3	10
Columbia	0.6	5
Coos	1.1	9
Crook	0.1	1
Curry	0.6	5
Deschutes	1.5	12
Douglas	2.5	20
Gilliam	0.0	0
Grant	0.0	0
Harney	0.3	2
Hood River	0.5	4
Jackson	6.4	51
Jefferson	0.0	0
Josephine	1.9	15
Klamath	1.4	11
Lake	0.3	2
Lane	6.9	55
Lincoln	1.1	9
Linn	2.1	17
Malheur	0.8	6
Marion	7.0	56
Morrow	0.1	1
Multnomah	37.1	295
Polk	0.6	5
Sherman	0.1	1
Tillamook	0.9	7
Umatilla	0.9	7
Union	0.5	4
Wallowa	0.3	2
Wasco	0.3	2
Washington	8.9	71
Wheeler	0.0	0
Yamhill	2.1	17

QUESTION

How does the number of survey respondents compare to estimated counts of practicing nurse practitioners?

• • •

County	Number of surveys mailed [1]	Count of survey respondents [2]	Estimated count of practicing NPs [3]	Presumed response rate [4] (Percent)
Baker	2	0	2	0.0
Benton	41	21	40	52.5
Clackamas	173	73	170	42.9
Clatsop	17	10	15	66.7
Columbia	8	5	9	55.6
Coos	10	9	13	69.2
Crook	2	1	2	50.0
Curry	7	5	8	62.5
Deschutes	43	12	43	27.9
Douglas	36	20	37	54.1
Gilliam	0	0	0	0.0
Grant	2	0	1	0.0
Harney	4	2	4	50.0
Hood River	3	4	3	133.3
Jackson	91	51	93	54.8
Jefferson	6	0	4	0.0
Josephine	27	15	25	60.0
Klamath	27	11	27	40.7
Lake	3	2	3	66.7
Lane	98	55	104	52.9
Lincoln	16	9	19	47.4
Linn	17	17	17	100.0
Malheur	14	6	14	42.9
Marion	67	56	71	78.9
Morrow	2	1	1	100.0
Multnomah	437	295	433	68.1
Polk	22	5	21	23.8
Sherman	2	1	1	100.0
Tillamook	8	7	7	100.0
Umatilla	14	7	13	53.8
Union	22	4	23	17.4
Wallowa	5	2	5	40.0
Wasco	5	2	4	50.0
Washington	179	71	180	39.4
Wheeler	1	0	2	0.0
Yamhill	17	17	18	94.4

1. County was derived from mailing address (zip code), Oregon Board of Nursing data, 2000.

2. Count of survey respondents practicing in Oregon based on self-reported primary place of work.

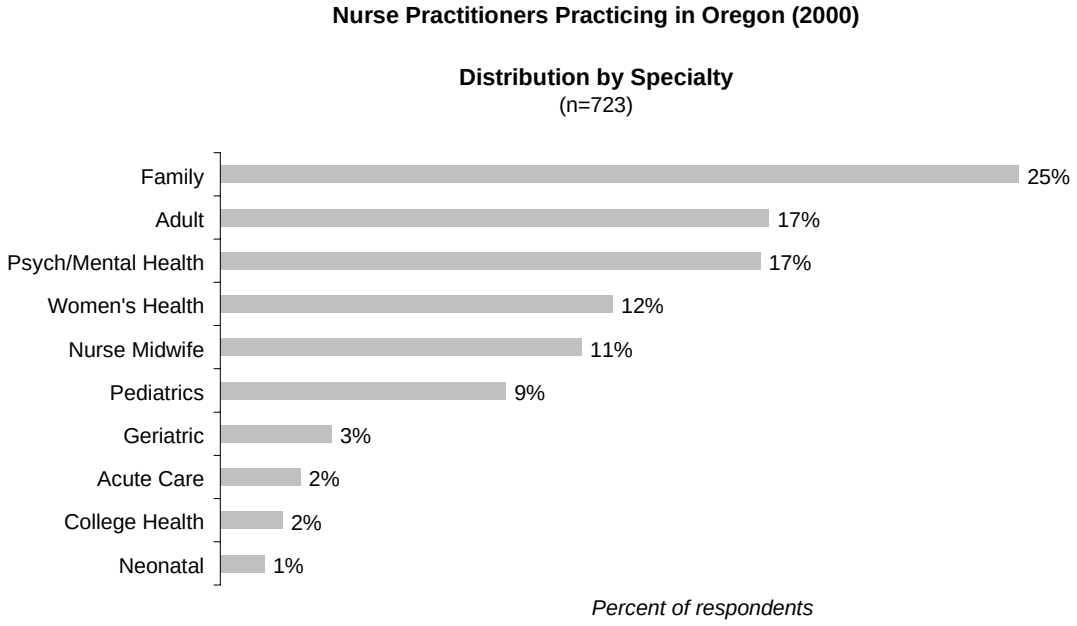
3. Count of practicing nurse practitioners as estimated by the Oregon Board of Nursing, 2000.

4. Presumed response rates were calculated by dividing the count of survey respondents within county by the estimated count of practicing nurse practitioners within county.

QUESTION

How are survey respondents distributed across specialties?

• • •



QUESTION

What were response rates by specialty?

• • •

Specialty at primary place of work	Count of survey respondents	Percent of survey respondents	Estimated count of Nurse Practitioners[1]	Presumed response rate[2]
Family	179	24.8	455	39.3
Adult	123	17.0	261	47.1
Psych/Mental Health	121	16.7	222	54.5
Women's Health	88	12.2	125	70.0
Nurse Midwife	81	11.2	176	46.0
Pediatrics	64	8.9	132	48.5
Geriatric	25	3.5	24	104.2
Acute Care	18	2.5	11	163.6
College Health	14	1.9	2	700.0
Neonatal	10	1.4	26	38.5

1. Count of nurse practitioners as estimated by the Oregon Board of Nursing, 2000.

2. Presumed response rates were calculated by dividing the count of survey respondents within specialty by the estimated count of nurse practitioners within specialty.

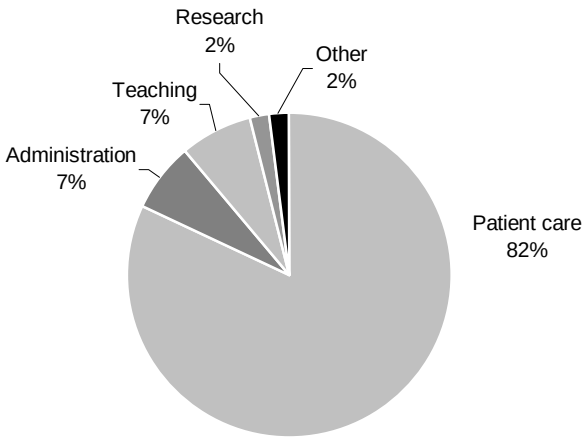
QUESTION

What professional activities are survey respondents engaged in?

• • •

Nurse Practitioners Practicing in Oregon (2000)

Professional time allocation at primary place of work by activity category
(n=773)



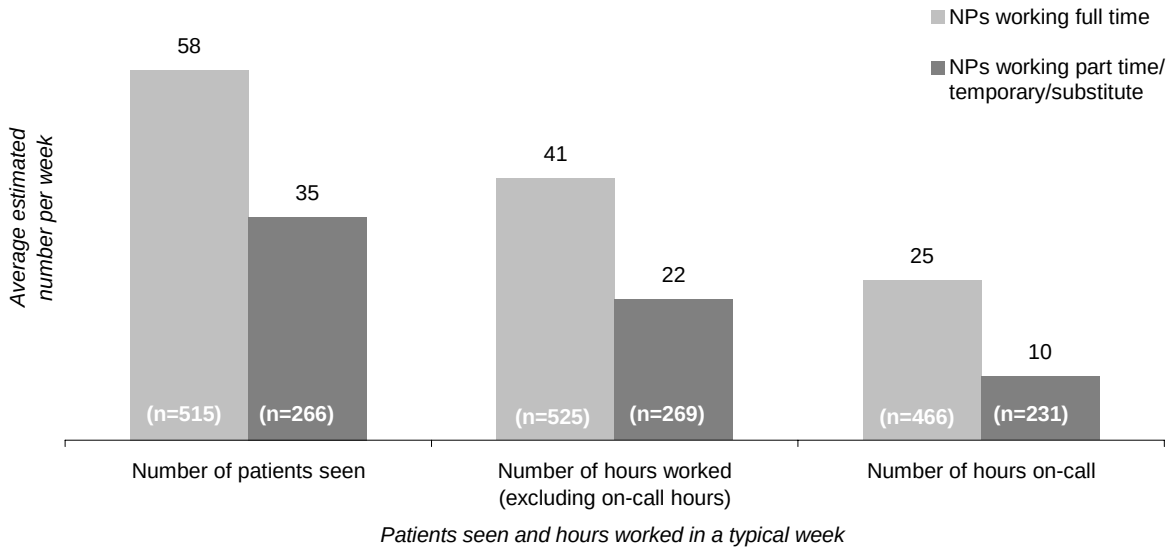
QUESTION

What services do survey respondents provide each week?

• • •

Nurse Practitioners Practicing in Oregon (2000)

Patients seen and hours worked in a typical week during the past twelve months*



Patients seen and hours worked in a typical week

**Based on respondents' estimates of inpatients & outpatients seen and hours worked in a typical week.*

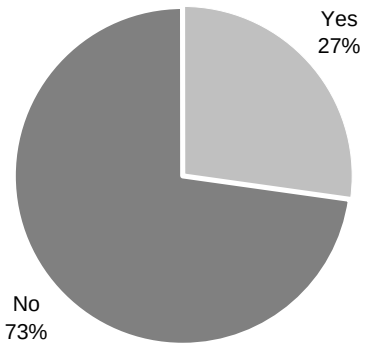
QUESTION

Do survey respondents have hospital privileges?

• • •

Nurse Practitioners Practicing in Oregon (2000)

Hospital privileges
(n=798)



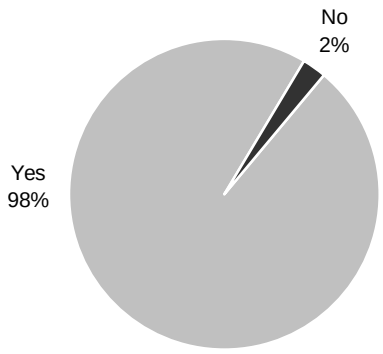
QUESTION

Do survey respondents have prescription authority?

• • •

Nurse Practitioners Practicing in Oregon (2000)

Prescription authority in Oregon
(n=801)



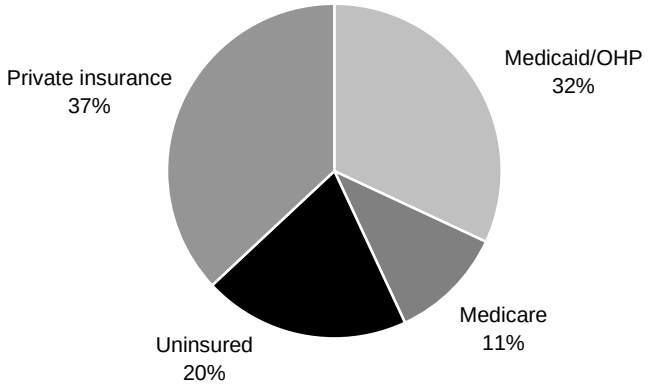
QUESTION

Who insures patients seen by survey respondents?

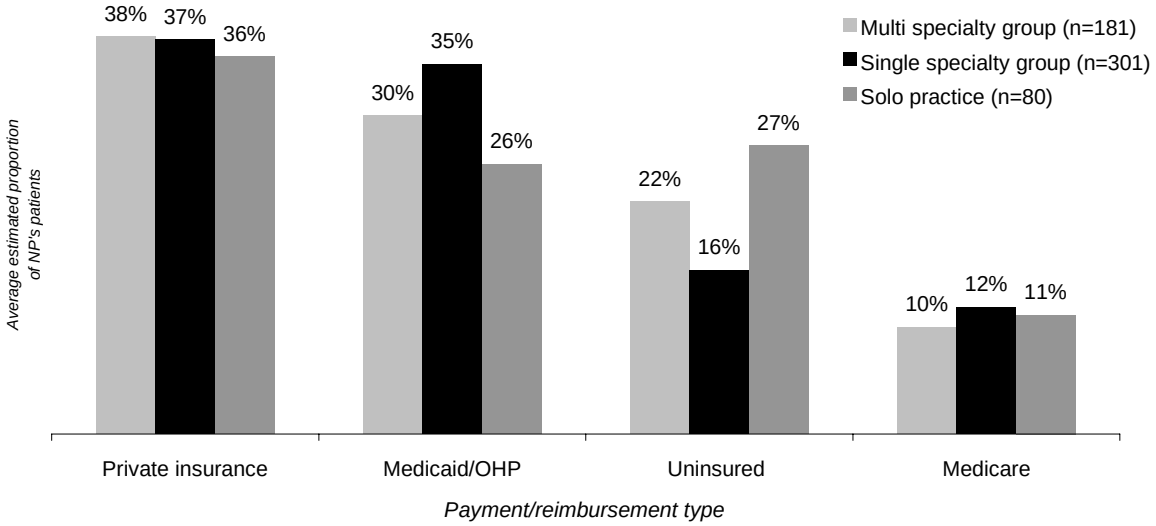
• • •

Nurse Practitioners Practicing in Oregon (2000)

Average estimated proportion of nurse practioner's patients by payment/reimbursement type
(n=615)



Average estimated proportion of patients* by payment/reimbursement type and type of clinical practice



**Based on responses to the question, "Please estimate the percent of all your patients with the following payment/reimbursement:".*

QUESTION

How satisfied are survey respondents with their profession?

• • •

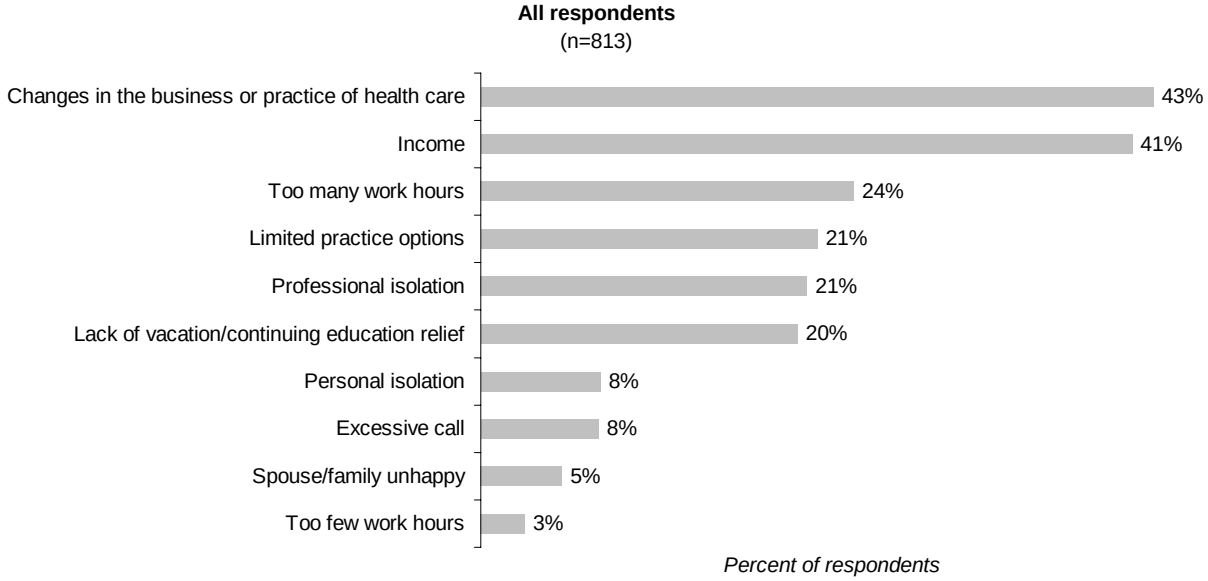
QUESTION

What factors contribute to professional dissatisfaction among survey respondents?

• • •

Nurse Practitioners Practicing in Oregon (2000)

Reasons for dissatisfaction with current practice



**Respondents indicating they are "neither satisfied nor dissatisfied," "dissatisfied," or "very dissatisfied" with their current practice/position.*

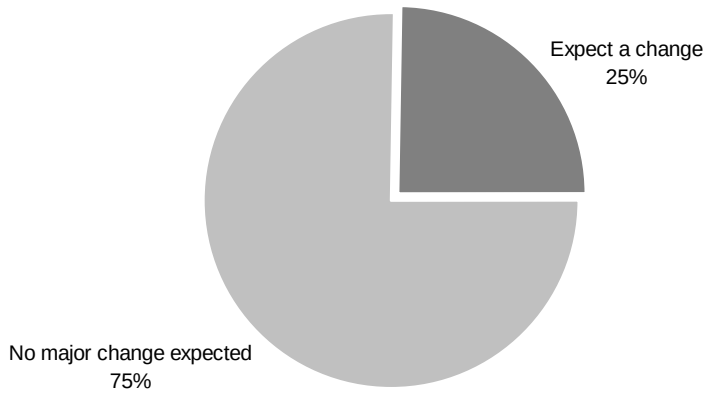
QUESTION

What work-related changes are survey respondents planning to make within the next two years?

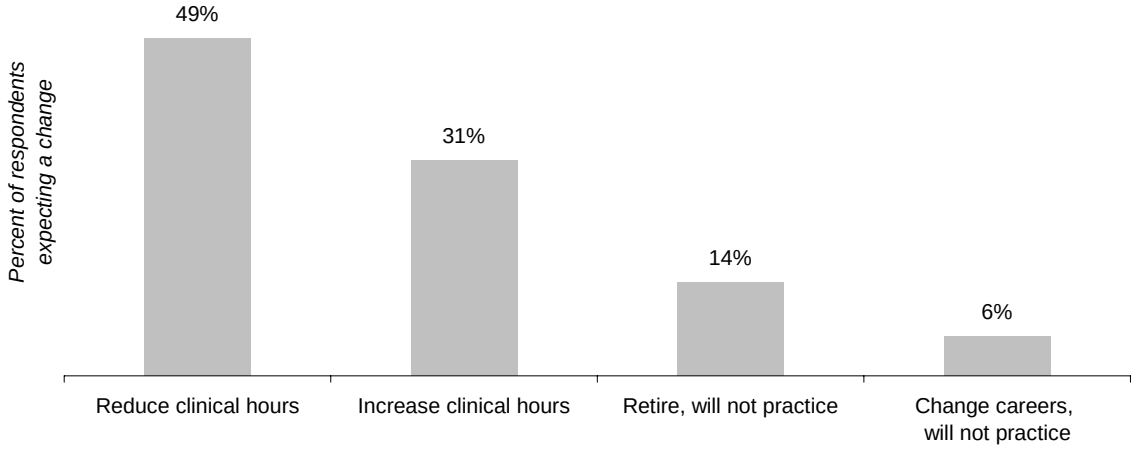
• • •

Nurse Practitioners Practicing in Oregon (2000)

Expected change in work/practice within next two years
(n=772)



Of respondents expecting a practice change, they will…
(n=191)



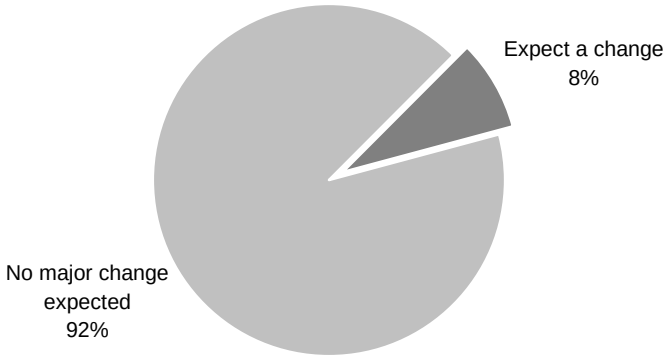
QUESTION

What changes in worksite location are survey respondents planning to make within the next two years?

• • •

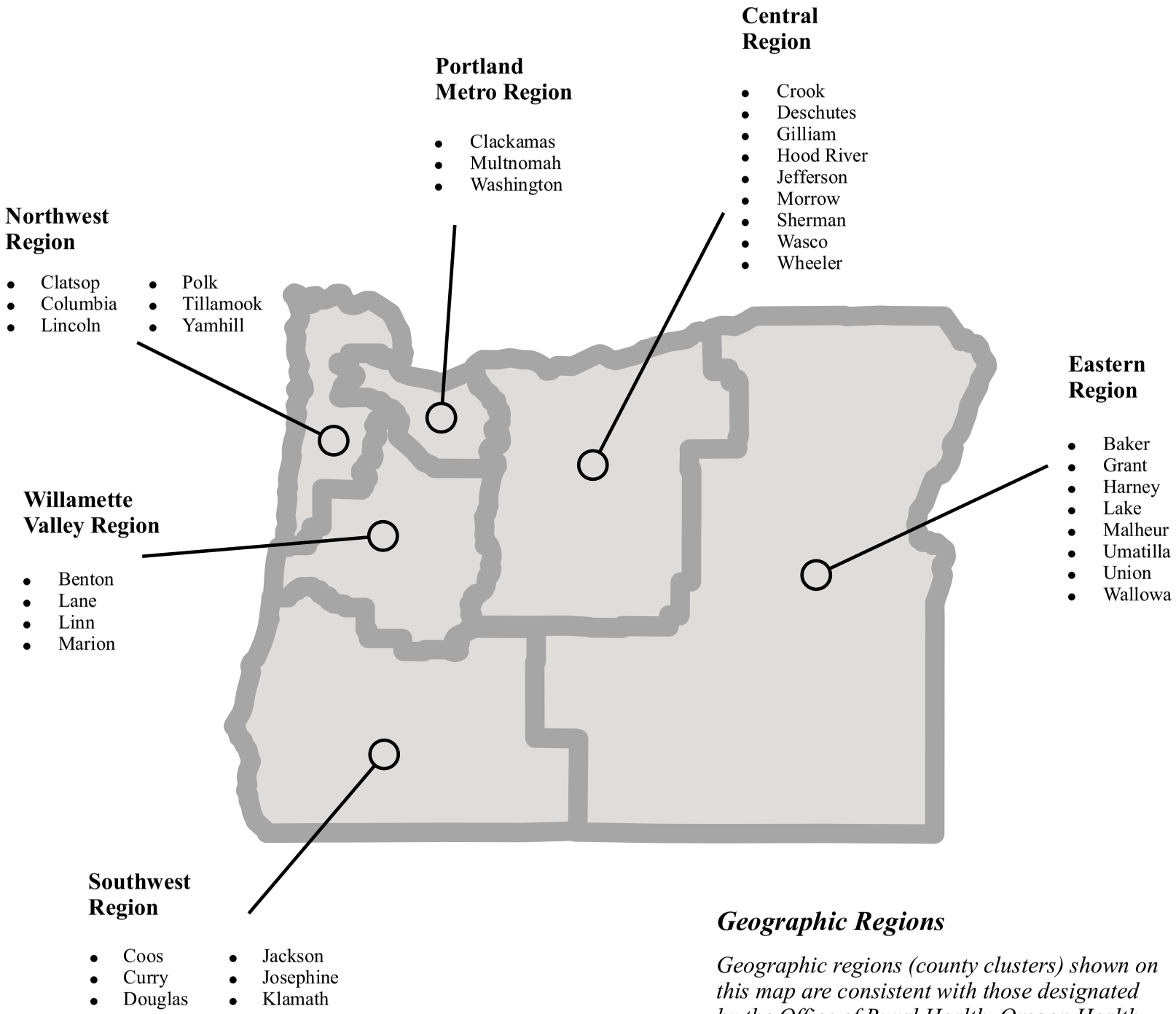
Nurse Practitioners Practicing in Oregon (2000)

Expected change in worksite location within next two years
(n=783)



Of respondents expecting a change, they will...
(n=65)

Profile of Survey Respondents
by Geographic Region and by Specialty



Geographic Regions

Geographic regions (county clusters) shown on this map are consistent with those designated by the Office of Rural Health, Oregon Health Sciences University.

QUESTION

How do survey respondents compare across geographic regions?

• • •

	Central	Eastern	Northwest	Portland Metro	Southwest	Willamette Valley
Sample size (n)	21	23	53	439	111	149
Estimated number of practicing nurse practitioners, Oregon Board of Nursing	60	65	89	783	203	232
Presumed response rate*	35%	35%	60%	56%	55%	64%

**Presumed response rates were calculated by dividing the number of survey respondents by the Oregon Board of Nursing estimated number of practicing nurse practitioners.*

Demographic factors

	Central	Eastern	Northwest	Portland Metro	Southwest	Willamette Valley
Average Age (yrs)	Insufficient sample size[1]	Insufficient sample size[1]	47.3	46.6	46.9	47.6
Female			92%	94%	89%	92%
Caucasian/white			96%	94%	95%	95%
Speak language(s) other than English			21%	21%	36%	36%

Hospital privileges and Prescription authority

	Central	Eastern	Northwest	Portland Metro	Southwest	Willamette Valley
Have hospital privileges	Insufficient sample size[1]	Insufficient sample size[1]	26%	30%	23%	22%
Have prescription authority			98%	98%	97%	98%

Hours worked in a typical week*

	Central	Eastern	Northwest	Portland Metro	Southwest	Willamette Valley
All Respondents						
Average number of hours worked (excluding on-call hours)	Insufficient sample size[1]	Insufficient sample size[1]	36	34	36	34
Average number of hours on-call			30	14	20	24
Respondents working full-time						
Percent of respondents within region working full-time			72%	64%	71%	65%
Average number of hours worked (excluding on-call hours)			42	41	41	39
Average number of hours on-call			30	18	26	31

**Based on respondents' estimates of total average hours worked in a typical week; refer to Appendices A & B for additional statistics.*

[1] *Data not available for regions with fewer than 35 responses.*

Region comparison (continued)

Estimated proportion of patients by payment/reimbursement type*

	Central	Eastern	Northwest	Portland Metro	Southwest	Willamette Valley
Sample size (n)	Insufficient	Insufficient	47	317	87	117
Medicaid/OHP	sample size[1]	sample size[1]	30%	30%	38%	30%
Medicare			11%	10%	13%	9%
Uninsured			21%	20%	22%	21%
Private insurance			38%	40%	27%	40%

**Based on responses to the question, "Please estimate the percent of all your patients with the following payment/reimbursement:"; refer to Appendix C for additional statistics.*

[1] *Data not available for regions with fewer than 35 responses.*

QUESTION

How do survey respondents compare across specialty categories?

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NOTE: Acute care, College health, Geriatric, and Neonatal specialties were excluded due to small sample sizes, n<35.

	Family	Adult	Psych/Mental Health	Women's Health	Nurse Midwife	Pediatrics
Sample size (n)	179	123	121	88	81	64
Estimated number of practicing NPs, Oregon Board of Nursing	455	261	222	125	176	132
Presumed response rate*	39%	47%	55%	70%	46%	48%

**Presumed response rates were calculated by dividing the number of survey respondents by the Oregon Board of Nursing estimated number of practicing nurse practitioners.*

Demographic factors

	Family	Adult	Psych/Mental Health	Women's Health	Nurse Midwife	Pediatrics
Average Age (yrs)	45.4	46.0	49.9	47.5	46.6	47.7
Female	86%	93%	87%	100%	100%	100%
Caucasian/white	92%	96%	95%	99%	96%	92%
Speak language(s) other than English	35%	12%	7%	33%	49%	36%

Distribution by Region

	Family	Adult	Psych/Mental Health	Women's Health	Nurse Midwife	Pediatrics
Central	56%	0%	11%	22%	11%	0%
Eastern	67%	0%	10%	10%	10%	0%
Northwest	37%	17%	13%	11%	9%	13%
Portland Metro	17%	20%	19%	10%	11%	11%
Southwest	38%	13%	9%	16%	9%	8%
Willamette Valley	22%	14%	20%	14%	16%	5%

Hospital privileges and Prescription authority

	Family	Adult	Psych/Mental Health	Women's Health	Nurse Midwife	Pediatrics
Have hospital privileges	19%	24%	12%	8%	93%	19%
Have prescription authority	100%	98%	93%	97%	100%	100%

Specialty category comparison (continued)

National certifications

	Family	Adult	Psych/Mental Health	Women's Health	Nurse Midwife	Pediatrics
American Academy of NPs Certification Board	24%	11%	1%	5%	0%	0%
American College of Nurse Midwives Certification Council	2%	0%	1%	16%	99%	0%
American Nurses Credentialing Center	65%	63%	53%	17%	5%	14%
National Certification Board of PNPs and Nurses	1%	1%	0%	0%	0%	63%
National Certification Corporation of Ob/Gyn/Neonatal Nursing	1%	0%	0%	42%	0%	2%
Missing values/no response provided	8%	25%	45%	20%	0%	22%

Patients seen and hours worked in a typical week*

	Family	Adult	Psych/Mental Health	Women's Health	Nurse Midwife	Pediatrics
All Respondents						
Average number of patients seen	66	53	32	46	43	54
Average number of hours worked (excluding on-call hours)	37	36	35	30	30	29
Average number of hours on-call	17	11	35	3	58	4
Respondents working full-time						
Percent of respondents within specialty working full-time	73%	74%	77%	48%	63%	Insufficient sample size[1]
Average number of patients seen	75	61	34	58	48	
Average number of hours worked (excluding on-call hours)	42	42	39	39	36	
Average number of hours on-call	21	15	39	4	66	

**Based on respondents' estimates of inpatients & outpatients seen and total average hours worked in a typical week; refer to Appendices A & B for additional statistics.*

Estimated proportion of patients by payment/reimbursement type*

	Family	Adult	Psych/Mental Health	Women's Health	Nurse Midwife	Pediatrics
Sample size (n)	154	82	82	76	70	46
Medicaid/OHP	31%	20%	37%	26%	52%	38%
Medicare	14%	22%	7%	4%	1%	1%
Uninsured	20%	15%	21%	30%	16%	19%
Private insurance	35%	43%	35%	40%	30%	42%

**Based on responses to the question, "Please estimate the percent of all your patients with the following payment/reimbursement:"; refer to Appendix C for additional statistics.*

[1] *Data not available for specialties with fewer than 35 responses.*

QUESTION

Are there differences in levels of career satisfaction among survey respondents across geographic regions or specialties?

• • •

Satisfaction with current practice/position

By region

	Central	Eastern	Northwest	Portland Metro	Southwest	Willamette Valley
Sample size (n)	Insufficient sample size[1]	Insufficient sample size[1]	52	431	109	147
Very satisfied			27%	37%	39%	33%
Satisfied			42%	42%	39%	50%
Neither satisfied nor dissatisfied			19%	12%	14%	9%
Dissatisfied			8%	8%	5%	7%
Very dissatisfied			4%	2%	4%	1%
Satisfied or very satisfied			69%	79%	78%	83%
Dissatisfied or very dissatisfied			12%	10%	9%	8%

[1] *Data not available for regions with fewer than 35 responses.*

By specialty

	Family	Adult	Psych/Mental Health	Women's Health	Nurse Midwife	Pediatrics
Sample size (n)	175	120	118	84	80	64
Very satisfied	31%	27%	42%	44%	35%	39%
Satisfied	53%	48%	42%	36%	43%	45%
Neither satisfied nor dissatisfied	10%	16%	7%	12%	14%	6%
Dissatisfied	5%	9%	8%	5%	9%	3%
Very dissatisfied	2%	1%	2%	4%	0%	6%
Satisfied or very satisfied	84%	75%	84%	80%	78%	84%
Dissatisfied or very dissatisfied	7%	10%	10%	9%	9%	9%

Appendices

Appendix A

Patients seen and hours worked in a typical week, all respondents: measures of central tendency and dispersion

by Region

	Central	Eastern	Northwest	Portland Metro	Southwest	Willamette Valley
Number of patients seen						
Sample size	19	23	53	419	110	144
Mean	Insufficient sample size[1]	Insufficient sample size[1]	57.5	44.8	61.1	51.7
Standard Deviation			28.56	29.78	33.91	28.57
Median			55	40	60	50
Mode			60	20	50	40
Minimum-Maximum			5-129	0-180	2-200	1-160

Based on respondents' estimates of inpatients and outpatients seen in a typical week.

Number of hours worked						
Sample size	20	23	53	426	111	147
Mean	Insufficient sample size[1]	Insufficient sample size[1]	35.6	33.9	35.5	33.7
Standard Deviation			12.15	13.19	12.54	10.85
Median			40	36	40	36
Mode			40	40	40	40
Minimum-Maximum			5-60	1-90	2-62	8-60

Based on respondents' estimates of hours worked in a typical week (excluding on-call hours).

Number of hours on-call						
Sample size	18	19	45	370	100	133
Mean	Insufficient sample size[1]	Insufficient sample size[1]	30.3	14.4	19.6	24.5
Standard Deviation			47.90	32.15	38.28	48.60
Median			4	0	0	0
Mode			0	0	0	0
Minimum-Maximum			0-168	0-168	0-168	0-168

[1]*Statistics not available for regions with fewer than 35 responses.*

Appendix A (cont'd.)

Patients seen and hours worked in a typical week, all respondents: measures of central tendency and dispersion

by Specialty category

NOTE: Acute care, College health, Geriatric, and Neonatal specialties were excluded due to small sample sizes, n<35.

	Family	Adult	Psych/Mental Health	Women's Health	Nurse Midwife	Pediatrics
Number of patients seen						
Sample size	176	121	113	87	78	61
Mean	66.2	53.2	32.0	45.9	42.8	54.2
Standard Deviation	32.74	29.83	20.28	24.75	23.75	34.99
Median	60	50	30	42	39	53
Mode	60	50	30	60	33	60
Minimum-Maximum	3-200	2-130	2-150	0-115	2-125	0-180

Based on respondents' estimates of inpatients and outpatients seen in a typical week.

Number of hours worked						
Sample size	175	122	119	87	79	62
Mean	37.0	36.4	35.0	30.5	30.4	28.7
Standard Deviation	12.16	11.90	11.73	11.47	12.38	12.55
Median	40	40	40	32	30	29
Mode	40	40	40	40	40	40
Minimum-Maximum	8-90	4-60	2-62	2-60	1-64	3-60

Based on respondents' estimates of hours worked in a typical week (excluding on-call hours).

Number of hours on-call						
Sample size	162	102	100	72	76	55
Mean	17.3	11.5	35.3	3.5	58.1	4.2
Standard Deviation	33.76	31.75	57.67	10.18	50.52	9.73
Median	0	0	0	0	41	0
Mode	0	0	0	0	24	0
Minimum-Maximum	0-168	0-168	0-168	0-56	0-168	0-60

Appendix B

Patients seen and hours worked in a typical week by respondents working full-time: measures of central tendency and dispersion

by Region

	Central	Eastern	Northwest	Portland Metro	Southwest	Willamette Valley
Number of patients seen						
Sample size	13	15	38	269	79	92
Mean	Insufficient sample size[1]	Insufficient sample size[1]	64.2	51.3	69.9	59.7
Standard Deviation			27.64	31.15	32.88	28.35
Median			60	48	65	59
Mode			60	60	80	75
Minimum-Maximum			20-129	0-180	10-200	1-160

Based on respondents' estimates of inpatients and outpatients seen in a typical week.

Number of hours worked						
Sample size	14	15	38	273	79	96
Mean	Insufficient sample size[1]	Insufficient sample size[1]	41.7	40.6	41.4	38.9
Standard Deviation			6.86	10.27	7.75	8.32
Median			40	40	40	40
Mode			40	40	40	40
Minimum-Maximum			30-60	5-90	8-62	16-60

Based on respondents' estimates of hours worked in a typical week (excluding on-call hours).

Number of hours on-call						
Sample size	13	14	33	237	72	89
Mean	Insufficient sample size[1]	Insufficient sample size[1]	Insufficient sample size[1]	18.1	26.3	31.0
Standard Deviation				35.87	43.18	54.48
Median				0	6	0
Mode				0	0	0
Minimum-Maximum				0-168	0-168	0-168

[1]*Statistics not available for regions with fewer than 35 responses.*

Appendix B (cont'd.)

Patients seen and hours worked in a typical week by respondents working full-time: measures of central tendency and dispersion

by Specialty category

NOTE: Acute care, College health, Geriatric, and Neonatal specialties were excluded due to small sample sizes, n<35.

	Family	Adult	Psych/Mental Health	Women's Health	Nurse Midwife	Pediatrics
Number of patients seen						
Sample size	128	89	86	41	50	27
Mean	75.1	61.0	34.4	57.8	48.3	Insufficient sample size[1]
Standard Deviation	32.42	28.94	16.67	25.83	21.69	
Median	75	60	30	60	46	
Mode	80	60	30	60	33	
Minimum-Maximum	7-200	7-130	5-100	0-115	12-125	

Based on respondents' estimates of inpatients and outpatients seen in a typical week.

Number of hours worked						
Sample size	129	90	91	41	51	27
Mean	41.6	41.8	39.5	38.9	35.8	Insufficient sample size[1]
Standard Deviation	10.19	6.69	8.53	7.86	10.72	
Median	40	40	40	40	36	
Mode	40	40	40	40	40	
Minimum-Maximum	8-90	30-60	5-62	8-60	16-64	

Based on respondents' estimates of hours worked in a typical week (excluding on-call hours).

Number of hours on-call						
Sample size	120	77	76	35	50	22
Mean	21.4	15.0	39.5	4.5	65.6	Insufficient sample size[1]
Standard Deviation	37.69	35.89	59.95	12.33	50.55	
Median	4	0	0	0	48	
Mode	0	0	0	0	48	
Minimum-Maximum	0-168	0-168	0-168	0-56	0-168	

[1]*Statistics not available for specialties with fewer than 35 responses.*

Appendix C

Respondents' estimates of proportion of patients by payment/reimbursement type: measures of central tendency and dispersion

by Region

	Central	Eastern	Northwest	Portland Metro	Southwest	Willamette Valley
Sample size (n)	19	20	47	317	87	117
Medicaid/OHP						
Mean (percent)	Insufficient sample size[1]	Insufficient sample size[1]	29.9	30.2	38.4	30.0
Standard Deviation			19.40	27.34	24.42	28.33
Median			25	20	35	20
Mode			30	0	20	0
Minimum-Maximum			0-80%	0-100%	0-90%	0-100%
Medicare						
Mean (percent)			11.2	10.1	13.3	9.1
Standard Deviation			13.42	18.44	16.76	16.15
Median			5	1	7	2
Mode			0	0	0	0
Minimum-Maximum			0-60%	0-100%	0-80%	0-80%
Uninsured						
Mean (percent)			21.3	19.9	21.8	21.4
Standard Deviation			21.67	25.47	17.13	27.08
Median			15	10	20	10
Mode			10	0	10	0
Minimum-Maximum			0-75%	0-100%	0-70%	0-100%
Private Insurance						
Mean (percent)			37.6	39.8	26.6	39.6
Standard Deviation			28.52	33.01	21.06	30.96
Median			32	30	20	35
Mode			40	0	10	0
Minimum-Maximum			0-100%	0-100%	0-85%	0-100%

**Based on responses to the question, "Please estimate the percent of all your patients with the following payment/reimbursement:".*

[1]Statistics not available for regions with fewer than 35 responses.

Appendix C (cont'd.)

Respondents' estimates of proportion of patients by payment/ reimbursement type: measures of central tendency and dispersion

by Specialty category

NOTE: Acute care, College health, Geriatric, and Neonatal specialties were excluded due to small sample sizes, n<35.

	Family	Adult	Psych/Mental Health	Women's Health	Nurse Midwife	Pediatrics
Sample size (n)	154	82	82	76	70	46
Medicaid/OHP						
Mean (percent)	30.5	19.8	36.6	25.8	52.2	38.0
Standard Deviation	20.50	18.79	37.09	23.36	22.23	24.60
Median	30	16	25	20	52.5	36
Mode	30	10	0	10	60	50
Minimum-Maximum	0-100%	0-95%	0-100%	0-94%	1-88%	0-90%
Medicare						
Mean (percent)	14.4	22.0	7.1	4.2	1.2	1.3
Standard Deviation	14.37	24.13	11.86	6.34	2.44	6.07
Median	10	12.5	2	1	0	0
Mode	10	0	0	0	0	0
Minimum-Maximum	0-80%	0-90%	0-85%	0-40%	0-15%	0-40%
Uninsured						
Mean (percent)	20.0	15.2	20.8	29.9	16.1	19.0
Standard Deviation	20.07	21.97	24.83	29.53	20.50	20.94
Median	10	10	10	15	10	10
Mode	10	0	0	5	10	10
Minimum-Maximum	0-88%	0-100%	0-100%	0-95%	0-98%	0-100%
Private Insurance						
Mean (percent)	35.1	43.0	35.4	40.2	30.4	41.8
Standard Deviation	27.97	30.96	34.93	34.85	22.22	30.46
Median	30	36.5	26.5	35	25	38.5
Mode	5	0	0	10	10	30
Minimum-Maximum	0-100%	0-100%	0-100%	0-100%	0-90%	0-90%

**Based on responses to the question, "Please estimate the percent of all your patients with the following payment/reimbursement:".*

Appendix D: Variables contained in nurse practitioner data repository

Personal Information

Current professional employment status
Race/ethnicity
Age
Gender
Languages spoken adequately for clinical purposes
Area of clinical focus
National certification(s) (certifying organizations)
Other professions(s) currently licensed to practice in Oregon
Hospital privileges
Prescription authority in Oregon

Professional Education

NP Program (if received in Oregon)
NP Program, state (if not received in Oregon)
Type of NP education
Year NP received
Highest degree completed

Professional Employment/Work Information (in Oregon)

Average number of hours worked per week (excluding on-call hours)
Average number of hours on-call per week
Average number of outpatients seen per week
Average number of inpatients seen per week
Number of weeks worked during the last 12 months
Estimated percent of patients by payment/reimbursement type
Accepting new patients by payment/reimbursement type
Estimated percent of patients who are migrant farm workers
Estimated percent of patients by age group
Age of youngest patient

by primary and secondary worksite

Geographic location of practice, county and zip code
Estimated percent time allocated to various work activities (patient care, administration, teaching, research, and other activities)
Specialty practiced at worksite and associated average number of hours per week
Subspecialty practiced at worksite and associated average number of hours per week
Clinical practice setting
Clinical practice type
Clinical practice organizational structure

Career Information

Expected change in practice/worksite location within the next two years
Expected change in professional practice/work within the next two years
Satisfaction with current practice/position
Reasons for dissatisfaction with current practice