

Provider Need and Shortage Analysis

Grant County Service Area

Community Health Improvement Partnership

December, 2012





Introduction

- Access and Provider Productivity
 - How many hours per week
 - How many patients per year
 - How long does it take to get an appointment
 - Payer Mix
- Surplus or Shortage
 - Population based supply model
 - How many providers are currently practicing, how many appointments are there/should they be supplying
 - How many providers are needed to meet population's demand
- There was a 87.5% response rate to this provider survey



Provider Hours and Visits

Grant County Service Area- Primary Care

- Average Hours per Week 29.14
- Average Annual Office Visits 2,004

Oregon Average – Primary Care¹

- Average Hours per Week 33.73
- Average Annual Office Visits 3,585

National Average – Primary Care

- Average Hours per Week² 35.5
- Average Annual Office Visits³ 3,521

1 Oregon Medical Association Preliminary Report of The 2003 Physician Workforce Assessment, *Oregon Medical Association House of Delegates Executive Committee Report F*, April, 2003

2 Wassenarr, PhD, John D; Thran, Sara L.; ed. (2003) "Table 14: Office Visits per Week, 2001" Physician Socioeconomic Statistics, 2003 Edition. American Medical Association, 49.

3 Hing E, Schappert SM. Generalist and specialty physicians: Supply and access, 2009-2010. NCHS data brief, no 105. Hyattsville, MD: National Center for Health Statistics. 2012.

Wait in Days to get an Appointment Grant County Service Area



- Existing Patients..... 5 Days
 - Range – 1 to 7 days
- New Patients..... 16 Days
 - Range – 2 to 21 days
- Emergency..... Same Day
 - Range – 0 to 1.5 days

Time for Provider Appointments in Days: State of Oregon

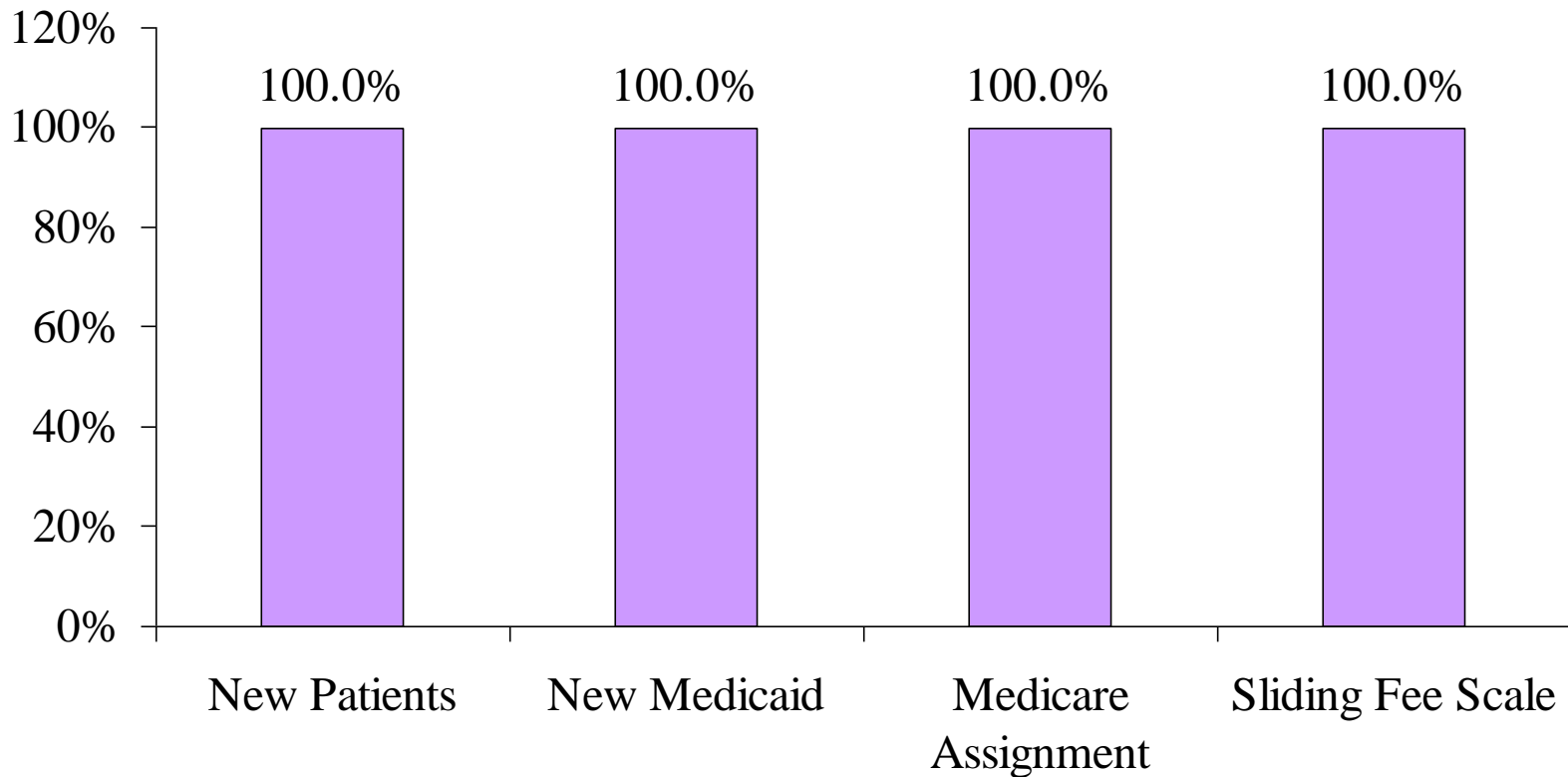


- Existing Patients.....11.17 Days
 - Range >30 days to 1 day
- New Patients.....19.58 Days
 - Range >30 days to 1 day

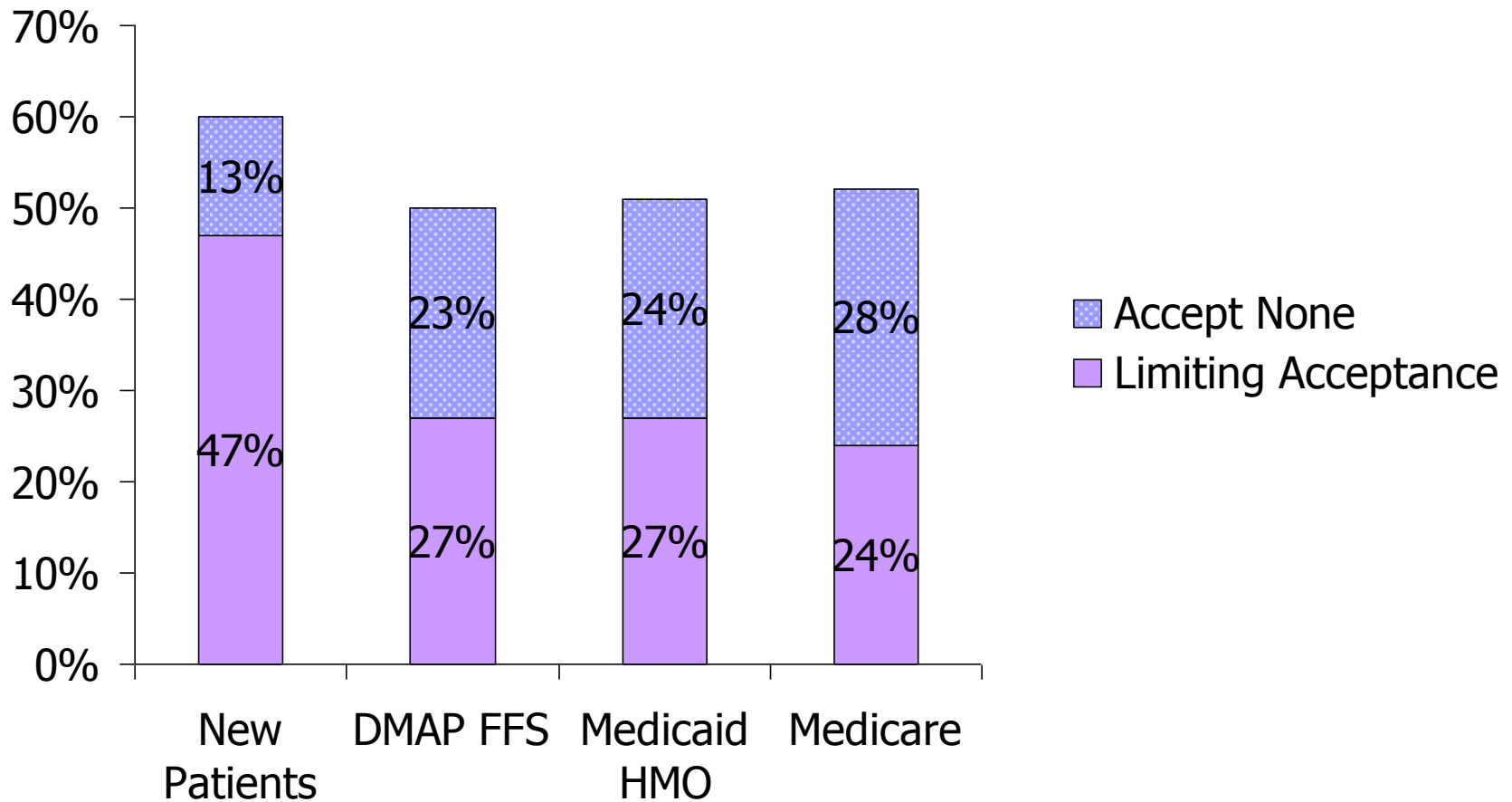
Oregon Medical Association Preliminary Report of The 2003 Physician Workforce Assessment, *Oregon Medical Association House of Delegates Executive Committee Report F*, April, 2003

OFFICE OF RURAL HEALTH

Percentage of Grant County Providers Accepting the Following Payment Methods

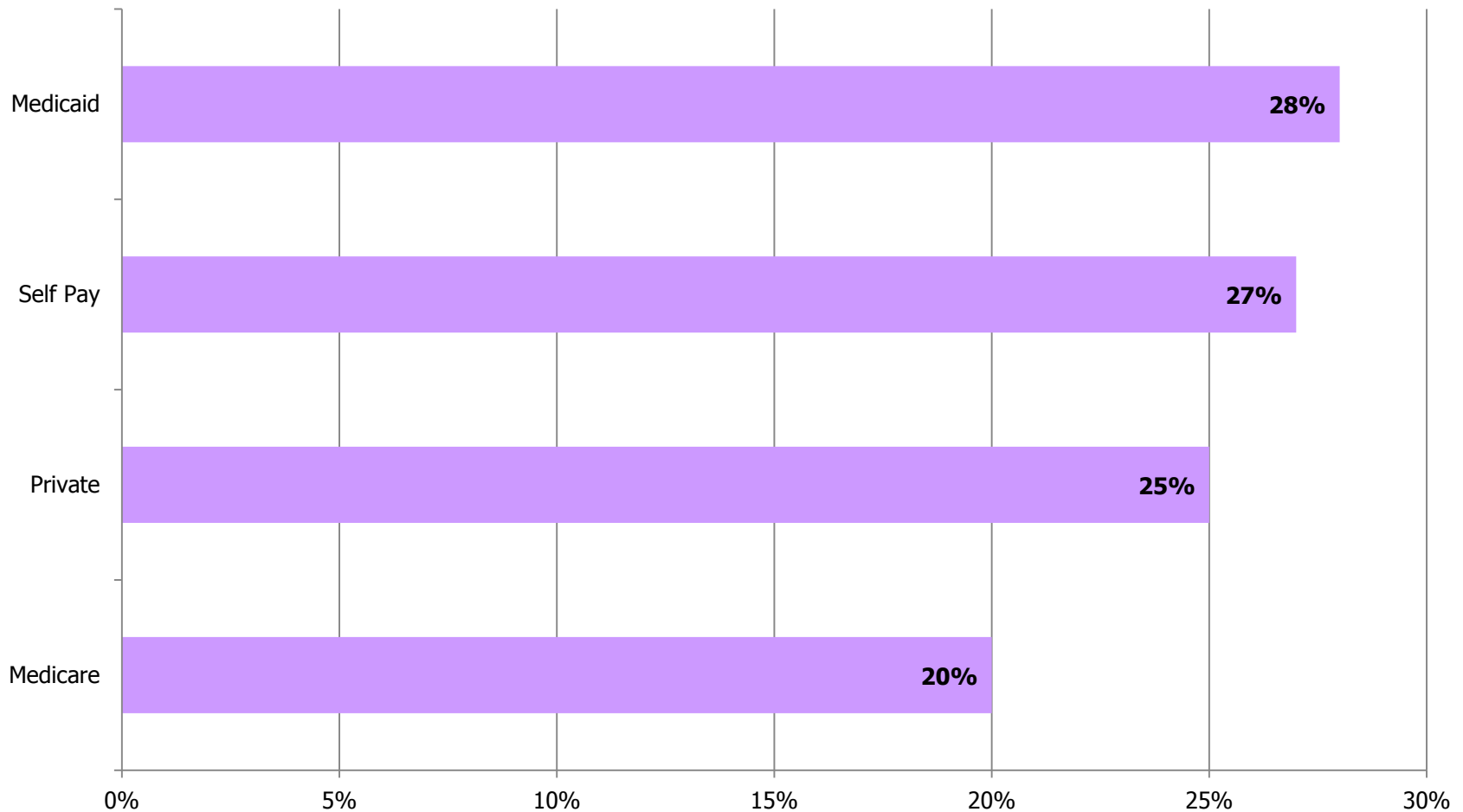


Oregon Primary Care Providers Accepting the Following:



Oregon Medical Association Preliminary Report of The 2003 Physician Workforce Assessment, *Oregon Medical Association House of Delegates Executive Committee Report F*, April, 2003

Payers by Percentage for Grant County Service Area Primary Care Providers





Payers Compared to National Data

Grant County Service Area

- Private (includes HMO, PPO and others) 25 %
- Medicare 20 %
- Medicaid 28 %
- Self Pay 27 %

National Data

- Private (includes HMO, PPO and others) 61%
- Medicare 17%
- Medicaid 13%
- Self Pay 4%
- Others 5%

Hing E, Uddin S. Visits to primary care delivery sites: United States, 2008. NCHS data brief, no 47. Hyattsville, MD: National Center for Health Statistics. 2010.



Provider Need and Shortage Analysis

- Population Based Method – How Many Providers are Needed for the Current Population
 - Use current population
 - Need Ratios based on providers per 1000 people
 - Estimates of providers needed based on the service area population multiplied by the need ratios
 - Shortage(Surplus) calculated as needed supply estimates minus current physician supply
 - Need Ratios broken out by specialty
 - Only looks at number of providers, does not consider how many visits are being supplied or demand for visits based on population age



Grant County Area Population

- The Grant County service area has 7,421 people in it.

Sources of Physician per 1,000 Population Need Ratios



- Sources of Physician Need Ratios come from Medicus Partners as of June 1, 2002. This information is based upon 10 different sources.
 - GMENAC (Graduate Medical Education National Advisory Committee)
 - Health Manpower Report (Amended Figures)
 - Medical Economics
 - Inforum
 - Current National Ratio
 - AMA
 - Mulhausen Staff Model HMO
 - Journal of American Medicine
 - Hicks & Glenn
 - Average (discard high & low number and average remainder)
- Numbers assume local use, there may/will be out-migration for services
- Ratios are Useful to Get Estimate of Provider Need

Grant County Service Area

	Population:			Difference
	7,421	Current	Local	Compared to
		Average	FTE	Current Average
<i>Primary Care</i>	Family Practice	1.80	4.50	2.70
	Internal Medicine	1.52		-1.52
	Pediatrics	0.80		-0.80
	OB/GYN	0.76		-0.76
	TOTAL Primary Care	4.88	4.50	-0.38
<i>Medical Specialties</i>	Allergy	0.07		-0.07
	Cardiology	0.23	0.13	-0.11
	Dermatology	0.16		-0.16
	Nephrology	0.07		-0.07
	Neurology	0.16		-0.16
	Oncology	0.22		-0.22
	Physical Medicine	0.10		-0.10
	Psychiatry	0.74		-0.74
	Pulmonary Medicine	0.10		-0.10
	TOTAL Medical	1.85	0.13	-1.72
<i>Surgical Specialties</i>	Gastroenterology	0.16		-0.16
	General Surgery	0.62	1.00	0.38
	Neurosurgery	0.09		-0.09
	Ophthalmology	0.35		-0.35
	Orthopedic Surgery	0.47	0.19	-0.28
	Otolaryngology	0.19		-0.19
	Plastic Surgery	0.07		-0.07
	Thoracic Surgery	0.06		-0.06
	Urology	0.20	0.06	-0.14
	TOTAL Surgical	2.20	1.25	-0.95
<i>Hospital Based Specialties</i>	Anesthesiology	0.48		-0.48
	Emergency Medicine	0.29		-0.29
	Pathology	0.37		-0.37
	Radiology	0.42		-0.42
	TOTAL Hospital-Based	1.56	0.00	-1.56

Primary Care Shortage in Grant County Service Area by Population Ratio Method



	Current Supply / Local FTE	Current Need	Surplus or (Shortage)
Grant County	4.5	4.88	-0.38



Office Visit Methodology

- Number of provider office visits is the key factor for this method (supply)
- Also use national production averages to estimate total potential office visits (supply)
- Use age-adjusted population numbers to estimate how many visits are needed (demand)
- Compare both actual and potential office visit supply to population based demand to determine shortage or surplus

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Physician Visits Needed by Population and by Physician Specialty

Grant County Service Area

Age	Population		# of Visits per Person	Total Visits		Primary Care Adjuster	Primary Care Visits	Distribution by Specialty		
MALES										
<15	581	x	2.9	1685	x	60%	1011	Family Practice	6,625	22.9%
15-24	459	x	1.4	643	x	60%	386	Internal Medicine	4,195	14.5%
25-44	617	x	1.6	987	x	60%	592	Pediatrics	3,819	13.2%
45-64	1271	x	3.2	4067	x	60%	2440	OB/GYN	2,170	7.5%
65-74	458	x	6.6	3023	x	60%	1814	Ophthalmology	1,707	5.9%
>75	307	x	8.0	2456	x	60%	1474	Orthopedics	1,504	5.2%
								Cardiology	1,302	4.5%
								Dermatology	955	3.3%
FEMALES										
<15	574	x	2.7	1550	x	60%	930	Psychiatry	955	3.3%
15-24	388	x	2.5	970	x	60%	582	Urology	579	2.0%
25-44	642	x	3.3	2119	x	60%	1271	Otolaryngology	579	2.0%
45-64	1295	x	4.3	5569	x	60%	3341	Oncology	550	1.9%
65-74	453	x	6.8	3080	x	60%	1848	General Surg	521	1.8%
>75	376	x	7.4	2782	x	60%	1669	Neurology	463	1.6%
								All Others	3,067	10.6%
TOTALS	7,421			28,930			17,358			
										100.2%

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Physician Visits Needed by Population and by Physician Specialty

Grant County Service Area

Age	Population		# of Visits per Person	Total Visits		Primary Care Adjuster	Primary Care Visits	Distribution by Specialty		
MALES										
<15	581	x	2.9	1685	x	80%	1348	Family Practice	6,625	22.9%
15-24	459	x	1.4	643	x	80%	514	Internal Medicine	4,195	14.5%
25-44	617	x	1.6	987	x	80%	790	Pediatrics	3,819	13.2%
45-64	1271	x	3.2	4067	x	80%	3254	OB/GYN	2,170	7.5%
65-74	458	x	6.6	3023	x	80%	2418	Ophthalmology	1,707	5.9%
>75	307	x	8.0	2456	x	80%	1965	Orthopedics	1,504	5.2%
								Cardiology	1,302	4.5%
								Dermatology	955	3.3%
FEMALES										
<15	574	x	2.7	1550	x	80%	1240	Psychiatry	955	3.3%
15-24	388	x	2.5	970	x	80%	776	Urology	579	2.0%
25-44	642	x	3.3	2119	x	80%	1695	Otolaryngology	579	2.0%
45-64	1295	x	4.3	5569	x	80%	4455	Oncology	550	1.9%
65-74	453	x	6.8	3080	x	80%	2464	General Surg	521	1.8%
>75	376	x	7.4	2782	x	80%	2226	Neurology	463	1.6%
								All Others	3,067	10.6%
TOTALS	7,421			28,930			23,144			
										100.2%



Service Area Demand

- Primary Care
 - Grant County Area Demand 17,358

- All Provider Types
 - Grant County Area Demand 28,930

Total Number of Reported Office Visits Supplied Annually:



Grant County Area:

- Primary Care 14,028

Reported Annual Supply vs. Demand Primary Care



	Reported Supply	Population Demand	Surplus or (Shortage)
Grant County	14,028	17,358	-3,330



Grant County Primary Care Provider Supply

Office Visits Accommodated by Local Primary Care Practitioners

Grant County Service Area

Type of Provider	Number of this Type of Provider in Your Service Area	Multiply By	Patient Visits per Year ^{1,2}	TOTAL Potential Office Visits
Family Physician	4.5	X	3,254	14,643
Internal Medicine	0	X	2,663	-
Pediatrician	0	X	3,460	-
OB / GYN	0	X	2,723	-
Physician Assistant/ Nurse Practitioner	1	X	2,550	2,550

**Total
Primary
Care
Capacity** **17,193**

¹Hing E, Burt CW. Characteristics of office-based physicians and their practices: United States, 2003-04. Series 13, No. 164. Hyattsville, MD: National Center for Health Statistics. 2007.

²The average of the the figures derived by CMS (Centers for Medicare and Medicaid Services [formerly HCFA]): Form HCFA-222-92, "Visits and Overhead Cost for RHC/FQHC," Worksheet B--and a study done by the Idaho Rural Health Education Center: Pryzbilla, J. (1996). A Step-by-Step Training Guide to Primary Care Provider Recruitment and Retention, 22-23.

National Productivity Standard Supply vs. Demand for Primary Care



	Supply	Demand	Surplus or (Shortage)
Grant County	17,193	17,358	-165



Additional Survey information

- 14% of primary care respondents reported they are NOT as busy as they would like.



Strawberry Wilderness Hours

- Monday – Thursday: 8am – 5pm
- Friday: 8am – 3:00pm



Grant County Health Department Hours

- Monday–Friday: 8:00am-12:00 noon;
1:00pm-5:00pm