

Provider Need and Shortage Analysis

Burns Service Area

Community Health Improvement Partnership

May 28, 2009





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 they/should they be supplying
 - How many providers are needed to meet population's demand
- **There was a 85% response rate to this provider survey**

Provider Hours and Visits Burns Service Area



Burns Service Area- Primary Care

- Average Hours per Week 26.14
- Average Annual Office Visits 3376

Oregon Average – Primary Care¹

- Average Hours per Week 33.73
- Average Annual Office Visits 3585

National Average – Primary Care

- Average Hours per Week² 35.5
- Average Annual Office Visits³ 3396

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, 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.

Wait in Days to get an Appointment Burns Service Area



- Existing Patients..... 5 Days
 - Range – 0 to 9 days
- New Patients..... 7 Days
 - Range – 0 to 18 days
- Emergency..... Same Day
 - Range – 0 to 1.5 days

Time for Provider Appointments in Days State of Oregon

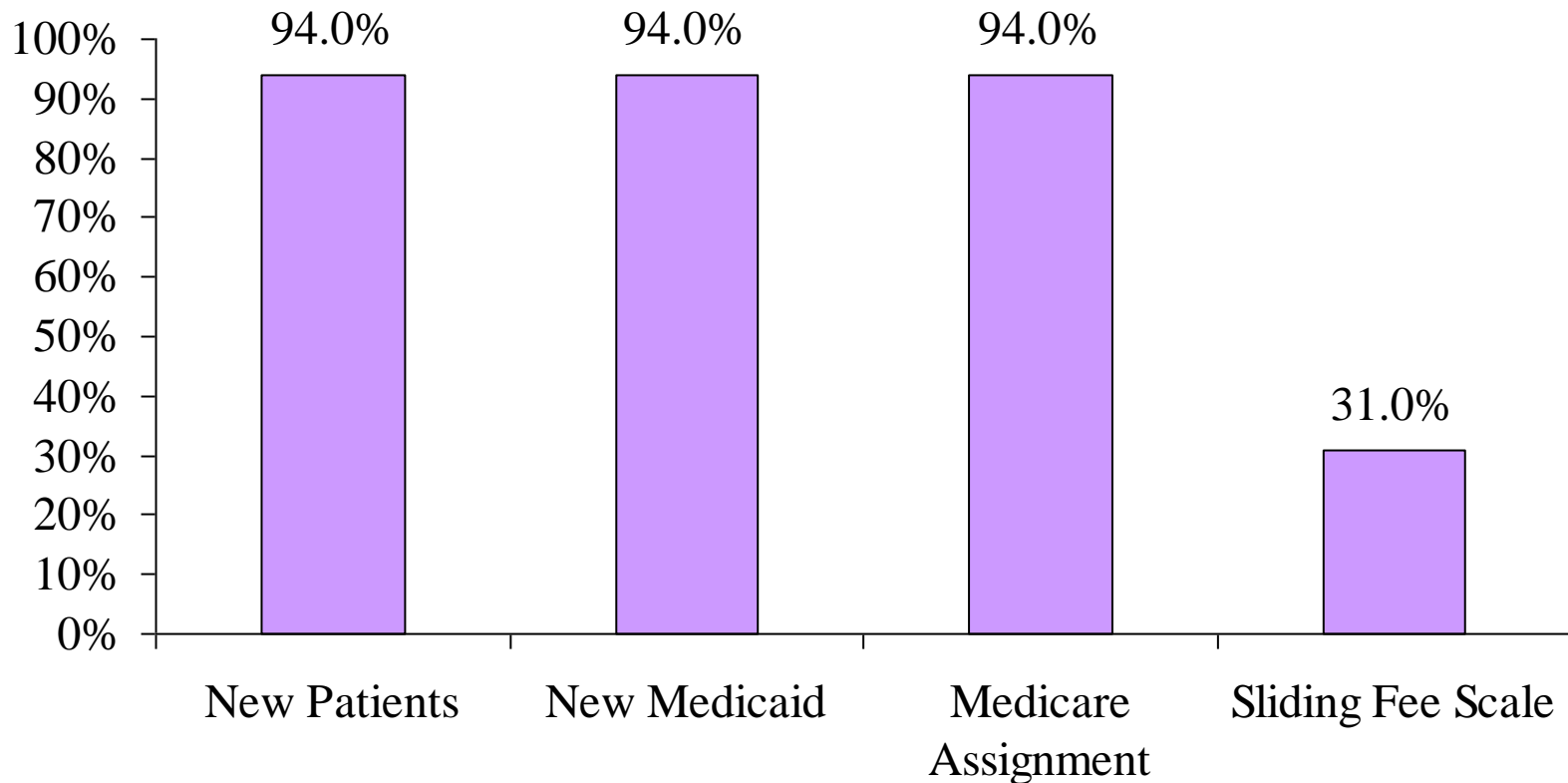


- Existing Patients.....11.17 Days
 - Range >30 days to 1 day
- New Patients.....19.58 Days
 - Range >30 days to 1 day

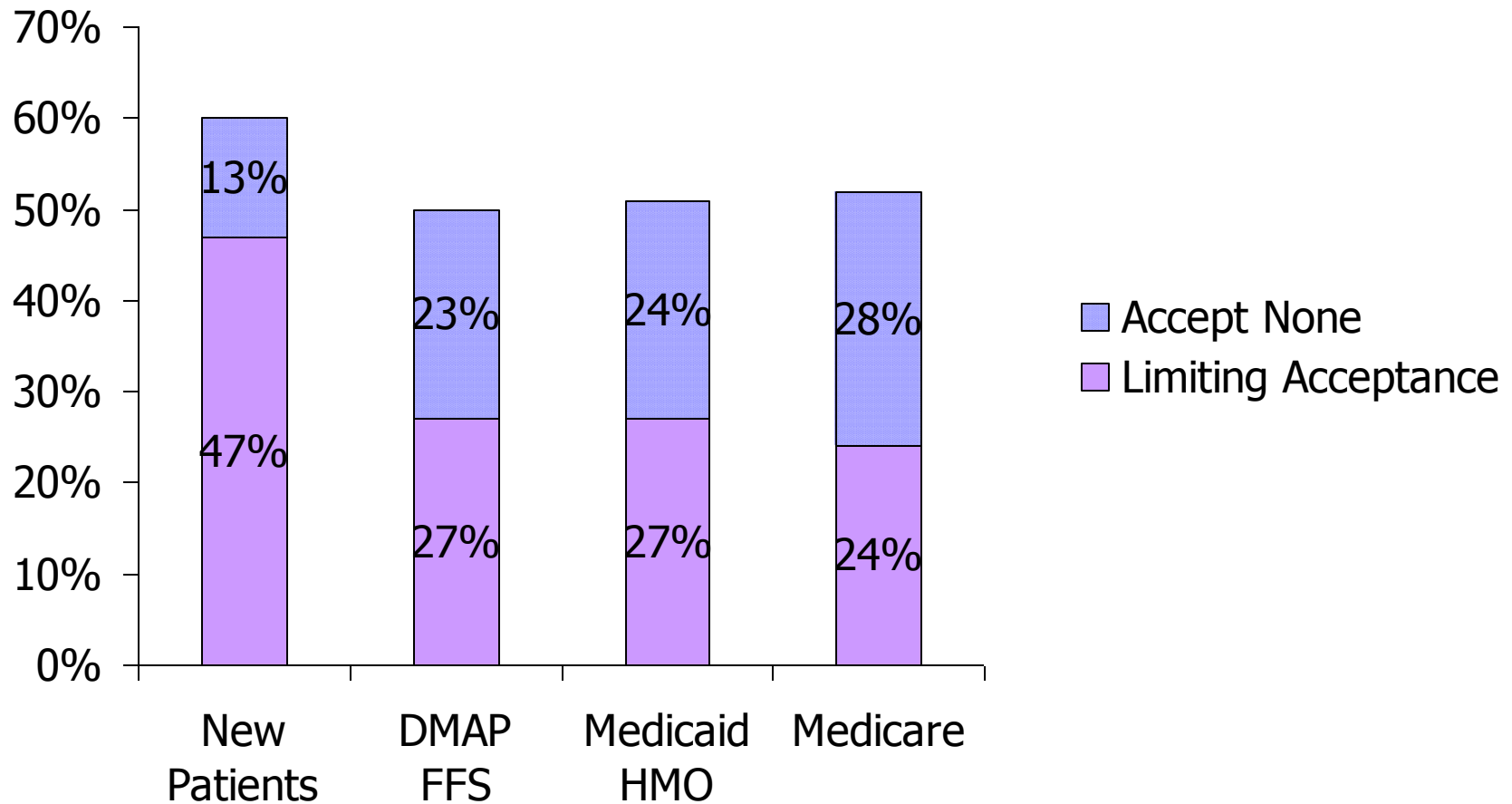
Oregon Medical Association Preliminary Report of The 2003 Physician Workforce Assessment, *Oregon Medical Association House of Delegates Executive Committee Report F*, April, 2003

OFFICE OF RURAL HEALTH

Percentage of Burns Providers Accepting the Following Payment Methods

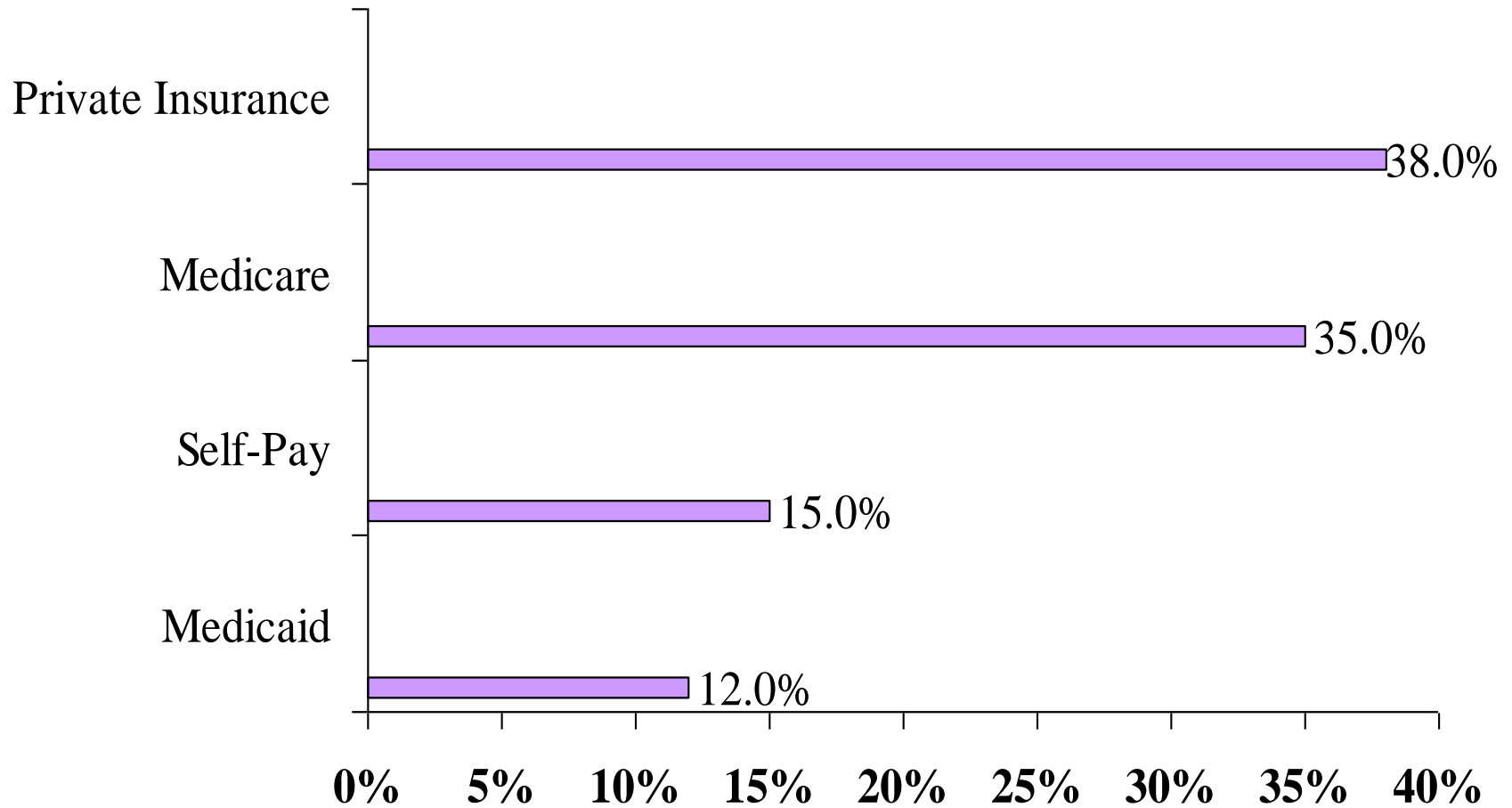


Oregon Primary Care Providers Accepting the Following:



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 Burns Service Area Primary Care Providers





Payers Compared to National Data

Burns Service Area

- Private (includes HMO, PPO and others) 38 %
- Medicare 35 %
- Medicaid 12 %
- Self Pay 15 %

National Data

- Private (includes HMO, PPO and others) 56.0%
- Medicare 22.7%
- Medicaid 9.8%
- Self Pay 9.6%
- Others 3.7%

National Ambulatory Medical Care Survey: 2004 Summary, *Advance Data No. 374*, June 23, 2006



Access and Availability Conclusions

■ Positive Access/Availability Findings :

Daytime hours good, waiting times for appointments are great. 31% of providers in Burns offer a sliding fee scale based on income.

■ Negative Access/Availability Findings :

Large percentage of Self Pay, Medicare and Medicaid patients compared to national average and below average Private Insurance; Limited hours for weekend care and after hour care except ER. No internal medicine or pediatric providers.



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



Burns Service Area Population

- The Burns Service area has 7,299 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

Harney County Service Area		Population: 7,299	Current Average	Local FTE	Difference Compared to Current Average
<i>Primary Care</i>	Family Practice		1.77	3.63	1.86
	Internal Medicine		1.50		-1.50
	Pediatrics		0.79		-0.79
	OB/GYN		0.75		-0.75
TOTAL Primary Care			4.80	3.63	-1.18
<i>Medical Specialties</i>	Allergy		0.07		-0.07
	Cardiology		0.23	0.04	-0.19
	Dermatology		0.15		-0.15
	Nephrology		0.07		-0.07
	Neurology		0.16	0.14	-0.02
	Oncology		0.21		-0.21
	Physical Medicine		0.09		-0.09
	Psychiatry		0.73		-0.73
	Pulmonary Medicine		0.09		-0.09
TOTAL Medical			1.82	0.18	-1.64
<i>Surgical Specialties</i>	Gastroenterology		0.15		-0.15
	General Surgery		0.61	0.64	0.03
	Neurosurgery		0.09		-0.09
	Ophthalmology		0.34		-0.34
	Orthopedic Surgery		0.46	0.10	-0.36
	Otolaryngology		0.18		-0.18
	Plastic Surgery		0.07		-0.07
	Thoracic Surgery		0.06		-0.06
	Urology		0.20	0.02	-0.18
TOTAL Surgical			2.16	0.76	-1.40
<i>Hospital Based Specialties</i>	Anesthesiology		0.47		-0.47
	Emergency Medicine		0.28	3.25	2.97
	Pathology		0.36		-0.36
	Radiology		0.41	1.53	1.12
TOTAL Hospital-Based			1.53	4.78	3.25

Primary Care Shortage in Burns Service Area by Population Ratio Method



	Current Supply / Local FTE	Current Need	Surplus or (Shortage)
Burns	3.63	4.8	-1.18



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

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Estimates of Physician Visits Needed by Population and by Physician Specialty

Burns Service Area

Age	Population		# of Visits per Person	Total Visits		Primary Care Adjuster	Primary Care Visits	Distribution by Specialty			
MALES											
<15	710	X	2.6	1846	X	60%	1108	Family Practice	5,720	23.1%	
15-24	491	X	1.1	540	X	60%	324	Internal Medicine	3,442	13.9%	
25-44	716	X	1.6	1146	X	60%	687	Pediatrics	3,368	13.6%	
45-64	1188	X	3.0	3564	X	60%	2138	OB/GYN	1,907	7.7%	
65-74	356	X	5.5	1958	X	60%	1175	Ophthalmology	1,585	6.4%	
>75	271	X	7.1	1924	X	60%	1154	Orthopedics	1,312	5.3%	
								Cardiology	718	2.9%	
FEMALES											
<15	587	X	2.6	1526	X	60%	916	Dermatology	693	2.8%	
15-24	438	X	2.4	1051	X	60%	631	Psychiatry	693	2.8%	
25-44	703	X	3.0	2109	X	60%	1265	Urology	495	2.0%	
45-64	1123	X	3.9	4380	X	60%	2628	Otolaryngology	471	1.9%	
65-74	390	X	6.0	2340	X	60%	1404	Oncology	396	1.6%	
>75	326	X	7.3	2380	X	60%	1428	General Surg	396	1.6%	
								Neurology	347	1.4%	
								All Others	3,219	13.0%	
TOTALS	7,299			24,764			14,858				
										100.0%	

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								All Others	3,219	13.0%
TOTALS	7,299			24,764			19,811			
										100.0%



Service Area Demand

- Primary Care
 - Burns Service Area Demand 19,811

- All Provider Types
 - Burns Service Area Demand 24,764

Total Number of Reported Office Visits Available Annually:



Burns Service Area:

- Primary Care 23,638
- All Provider Types 24,985

Reported Annual Supply vs. Demand Primary Care



	Reported Supply	Population Demand	Surplus or (Shortage)
Burns	23,638	19,811	3,827

Reported Annual Supply vs. Demand Non-Primary Care Providers



	Supply	Demand	Surplus or (Shortage)
Burns	1,347	4,953	-3,606



Burns Primary Care Provider Supply

Office Visits Accommodated by Local Primary Care Practitioners Harney County Service Area

Type of Provider	Number of this Type of Provider in Your Service Area (FTE)			TOTAL Potential Office Visits
	Area (FTE)	Multiply By	Patient Visits per Year ^{1,2}	
Family Physician	3.63	X	3,254	11,812
Internal Medicine	0	X	2,663	-
Pediatrician	0	X	3,460	-
OB / GYN	0	X	2,723	-
Physician Assistant/ Nurse Practitioner	2.09	X	2,550	5,330
Total Primary Care Capacity				17,142

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 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)
Burns	17,142	19,811	-2,669



Additional Survey information

- 100% of primary care respondents reported they are as busy as they would like.
- For the Burns service area, the average number of years a clinician has been in practice is 8.125 years
- This data is useful when considering recruitment efforts
- Data from ORH Recruiter indicates there is a wait time of at least 24 months to recruit a new provider

Need and Shortage Analysis

Conclusions for Burns Service Area



- Population to Physician Ratio Method
 - Total number of primary care is short (does not include Mid-levels)
 - Broken out – short Pediatrics and Internal Medicine
 - Lack of specialty care –more part time providers can be supported
- Provider Supply/Population Demand Method
 - Predicted demand is less than actual supply (more actual visits were served than demand model indicates.)
 - Predicted demand exceeds supply for specialty care visits.