Morrow County Service Area

Health Utilization Data

November 2010

OREGON ORH OFFICE OF RURAL HEALTH

Economic Impact of Health Care in the Community

- The Flow of Money
- Recapturing Dollars
- Community Economic Infrastructure
- Follow the Jobs – Types of Jobs
- Direct and Indirect Spending
- Forward and Backward Linkages through Hospital
- Follow the Spending of Health Care Organizations and their Employees
- Local Control
- Social Value / Peace of Mind

Where do People Go for Hospital Care?—Market Share Methodology

- Comp Data is a comprehensive (state-mandated) hospital reporting system.
- Data shows origin of patient by zip code, hospital admitted to, reason for admission, and payor source among other data.
- Local Utilization is critical to health system survival
- OR hospital inpatient data is from 6/09—6/10
- OR outpatient surgery data is from 6/09—6/10
- WA hospital inpatient data is from 6/08—6/09

Where do the Predictions Come From?

- Normative data for hospital inpatients, inpatient procedures, outpatient procedures, emergency room visits all come form the most recent annual surveys conducted by the National Center for Health Statistics (NCHS) and published in *National Health Statistics Reports* (NHSR). These are national norms based on actuarial experiences.
- *NCHS has calculated that people in the **WEST** use health services **19.6% LESS** than the average for the country as a whole*.

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Inpatients

Irrigon Service Area

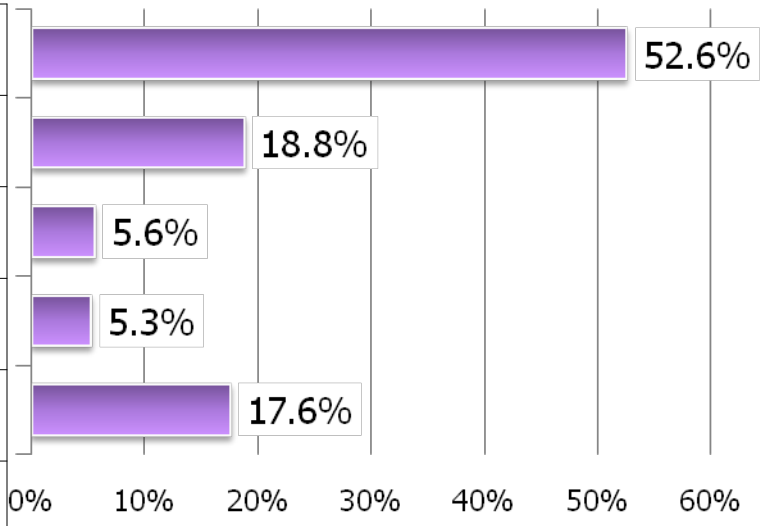
		< 15	15-44	45-64	65+			
	Population:	1,011	1,706	1,074	501	4292		
	ICD-9-CM	**< 15**	**15-44**	**45-64**	**65+**	**Total**	Actual OR	Actual WA
Infectious and Parasitic Diseases	001-139	2	3	4	7	**15**	6	5
Neoplasms	140-239	1	3	9	10	**23**	7	3
Endocrine, Nutritional, Immunity	240-279	3	5	7	9	**23**	7	5
Diseases of the Blood and Blood Forming Organs	280-289	1	1	1	3	**6**	2	1
Mental Disorders	290-319	-	18	10	3	**32**	0	3
Diseases of the Nervous System and Sense Organs	320-389	1	2	2	3	**9**	0	1
Diseases of the Circulatory System	390-459	0	6	27	51	**85**	16	22
Diseases of the Respiratory System	460-519	10	5	12	23	**50**	31	4
Diseases of the Digestive System	520-579	4	12	16	18	**49**	28	10
Diseases of the Genitounnary System	580-629	1	7	8	12	**27**	13	8
Complications of Pregnancy, Childbirth	630-676		7			**7**	44	7
Diseases of the Skin and Subcutaneous Tissue	680-709		3	3	3	**9**	5	2
Diseases of the Musculoskeletal System & Connective Tissue	710-739	1	4	10	12	**27**	20	6
Congenital Anomalies	740-759	2	0	0	0	**3**	1	1
Conditions Orginating in the Perinatal Period	760-779	3				**3**	0	3
Symptoms, Signs, and Ill-Defined Conditions	780-799	1	1	1	1	**3**	3	3
Injury and Poisoning	800-999	4	11	11	15	**41**	24	6
Supplementary Classifications	V01-V82	1	58	4	6	**69**	33	10
					TOTAL Inpatients	**482**	240	100

2006 National Hospital Discharge Survey, National Health Statistics Reports *No. 5* , July 30, 2008

Source: CompData (6/30/2008 - 6/30/2010)

Irrigon Service Area Inpatient Discharges

Used Good Shepherd	179
Used Kadlec Medical	64
Used OHSU	19
Used St. Anthony	18
Other Hospitals (<3% ea.)	60
Actual # of Discharges	**340**
Predicted # of Discharges	482
- Western Adjustment (-19.6%)	388
Difference between actual	48



- Market Share is the percentage of all discharges from the primary service area that are captured in the local hospital.

Source: CompData (6/30/2008 - 6/30/2010), CDC

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Inpatients

Boardman Service Area

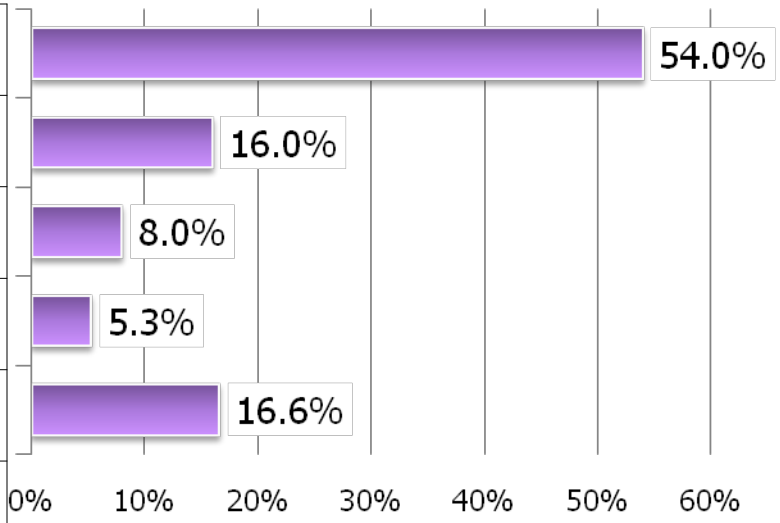
		< 15	15-44	45-64	65+			
	Population:	1,136	1,765	966	339	4206		
	ICD-9-CM	**< 15**	**15-44**	**45-64**	**65+**	**Total**	Actual OR	Actual WA
Infectious and Parasitic Diseases	001-139	3	3	3	5	**13**	3	2
Neoplasms	140-239	1	4	8	7	**19**	12	3
Endocrine, Nutritional, Immunity	240-279	3	5	6	6	**20**	8	2
Diseases of the Blood and Blood Forming Organs	280-289	1	1	1	2	**5**	3	0
Mental Disorders	290-319	-	19	9	2	**30**	4	5
Diseases of the Nervous System and Sense Organs	320-389	2	2	2	2	**8**	3	0
Diseases of the Circulatory System	390-459	1	6	24	35	**66**	11	10
Diseases of the Respiratory System	460-519	11	5	10	16	**42**	15	3
Diseases of the Digestive System	520-579	4	12	14	12	**43**	34	5
Diseases of the Genitounnary System	580-629	1	7	7	8	**23**	14	8
Complications of Pregnancy, Childbirth	630-676		7			**7**	62	12
Diseases of the Skin and Subcutaneous Tissue	680-709		3	3	2	**8**	1	2
Diseases of the Musculoskeletal System & Connective Tissue	710-739	1	4	9	8	**23**	5	5
Congenital Anomalies	740-759	2	0	0	0	**3**	1	1
Conditions Orginating in the Perinatal Period	760-779	4				**4**	3	3
Symptoms, Signs, and Ill-Defined Conditions	780-799	1	1	1	0	**3**	3	2
Injury and Poisoning	800-999	4	12	10	10	**36**	22	8
Supplementary Classifications	V01-V82	1	60	3	4	**68**	52	10
					TOTAL Inpatients	**422**	256	81

2006 National Hospital Discharge Survey, National Health Statistics Reports *No. 5* , July 30, 2008

Source: CompData (6/30/2008 - 6/30/2010)

Boardman Service Area Inpatient Discharges

Used Good Shepherd	182
Used Kadlec Medical	54
Used St. Anthony	27
Used OHSU	18
Other Hospitals (<3% ea.)	56
Actual # of Discharges	**337**
Predicted # of Discharges	422
- Western Adjustment (-19.6%)	339
Difference between actual	2



Source: CompData (6/30/2008 - 6/30/2010), CDC

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Inpatients

Heppner Service Area

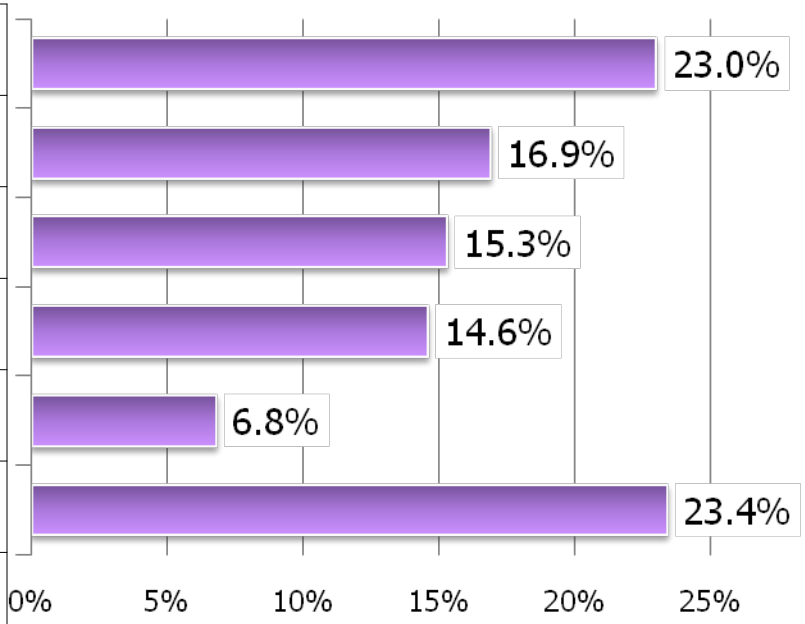
		< 15	15-44	45-64	65+			
	Population:	549	1,067	1,063	607	3286		
	ICD-9-CM	**< 15**	**15-44**	**45-64**	**65+**	**Total**	Actual OR	Actual WA
Infectious and Parasitic Diseases	001-139	1	2	4	8	**15**	6	4
Neoplasms	140-239	0	2	9	12	**23**	15	7
Endocrine, Nutritional, Immunity	240-279	1	3	7	11	**22**	5	3
Diseases of the Blood and Blood Forming Organs	280-289	0	1	1	3	**6**	1	0
Mental Disorders	290-319	-	11	10	4	**25**	1	3
Diseases of the Nervous System and Sense Organs	320-389	1	1	2	4	**8**	6	0
Diseases of the Circulatory System	390-459	0	4	27	62	**93**	31	13
Diseases of the Respiratory System	460-519	5	3	11	28	**48**	26	5
Diseases of the Digestive System	520-579	2	7	16	22	**47**	22	2
Diseases of the Genitounnary System	580-629	1	4	7	14	**27**	15	4
Complications of Pregnancy, Childbirth	630-676		4			**4**	24	10
Diseases of the Skin and Subcutaneous Tissue	680-709		2	3	4	**9**	11	0
Diseases of the Musculoskeletal System & Connective Tissue	710-739	0	3	10	15	**28**	25	4
Congenital Anomalies	740-759	1	0	0	0	**2**	0	1
Conditions Orginating in the Perinatal Period	760-779	2				**2**	0	0
Symptoms, Signs, and Ill-Defined Conditions	780-799	0	1	1	1	**2**	8	0
Injury and Poisoning	800-999	2	7	11	19	**39**	15	6
Supplementary Classifications	V01-V82	1	36	3	7	**48**	24	11
					TOTAL Inpatients	**447**	235	73

2006 National Hospital Discharge Survey, National Health Statistics Reports *No. 5* , July 30, 2008

Source: CompData (6/30/2008 - 6/30/2010)

Heppner Service Area Inpatient Discharges

Used **Pioneer Memorial Heppner**	71
Used Good Shepherd	52
Used Kadlec	47
Used St Anthony	45
Used OHSU	21
Other Hospitals (<3% ea.)	72
Actual # of Discharges	**308**
Predicted # of Discharges	447
- Western Adjustment (-19.6%)	359
Difference between actual	51



Source: CompData (6/30/2008 - 6/30/2010), CDC

Inpatient Procedures

- Once someone is admitted to a hospital, they may have one or several types of procedure(s) done on them. The following slides estimate numbers of principal inpatient procedures for our planning units.

- NOT all procedures are surgeries, ie. obstetrical procedures/births, transfusions, angiocardiographies, diagnostic procedures

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of ALL (principal and non-principal) Inpatient Procedures

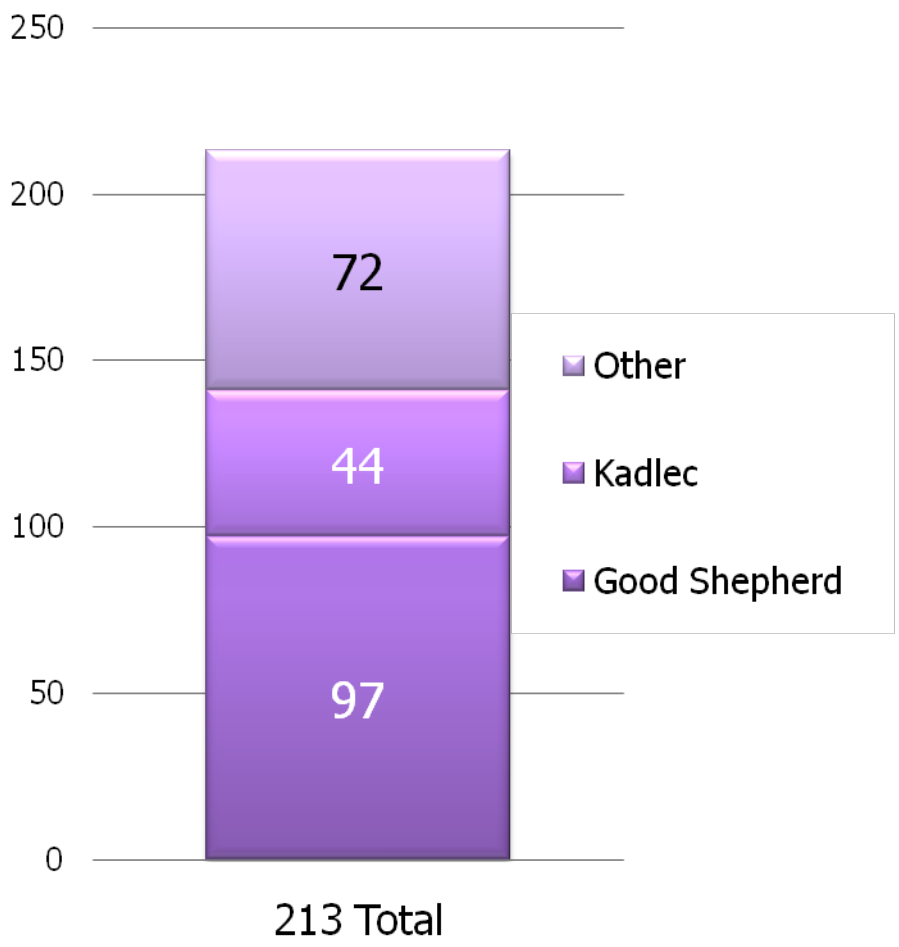
Irrigon Service Area

	< 15	15-44	45-64	65+	
Population:	1011	1,706	1,074	501	4292

	ICD-9-CM	< 15	15-44	45-64	65+	Total
Operations on the Nervous System	01-05	3	5	4	4	**16**
Operations on the Endocrine System	06-07	*	0	1	0	**1**
Operations on the Eye	08-16	0	0	0	0	**1**
Operations on the Ears	18-20	0	0	*	*	**0**
Operations on the Nose, Mouth, and Pharnyx	21-29	1	1	1	1	**4**
Operations on the Respiratory System	30-34	1	3	5	7	**16**
Operations on the Cardiovascular System	35-39	3	10	38	49	**100**
Operations on the Hemic and Lymphatic System	40-41	*	1	2	2	**5**
Operations on the Digestive System	42-54	4	17	25	31	**77**
Operations on the Urinary System	55-59	0	3	5	6	**14**
Operations on the Male Genital Organs	60-64	0	0	1	2	**4**
Operations on the Female Genital Organs	65-71	0	15	9	3	**27**
Obstetrical Procedures	72-75	0	96	*	*	**96**
Operations on the Musculoskeletal System	76-84	3	12	22	22	**59**
Operations on the Integumentary System	85-86	*	7	7	6	**19**
					TOTAL Procedures	**441**

2006 National Hospital Discharge Survey, National Health Statistics Reports *No. 5* , July 30, 2008

Actual Inpatient PRINCIPAL Procedures from Irrigon SA



- 62.6%, or 213 of the 340 total inpatients from Irrigon Service Area had a principal procedure
- 45.5%, or 97 of the principal procedures were done at Good Shepherd.

Source: CompData (6/30/2008 - 6/30/2010)

Top ICD Principal Procedures for Irrigon Service Area Inpatients

Inpatient Procedure in Oregon	Number of Procedures	Average Charge	Average Age
7359 Manual Assisted Delivery	13	$4,726	26
8154 Total Knee Replacement	10	$41,125	65
741 Low Cervical Cesarean	9	$13,184	27
7569 Rep Current OB LAC NEC	8	$4,568	28

Went to Washington State			
0066 PTCA/Atherectomy	6	$39,633	70
5794 Insert Indwell Urin Cath	5	$19,696	71
9904 Packed Cell Transfusion	5	$15,682	65

Source: CompData (6/30/2009 - 6/30/2010)

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of ALL (principal and non-principal) Inpatient Procedures

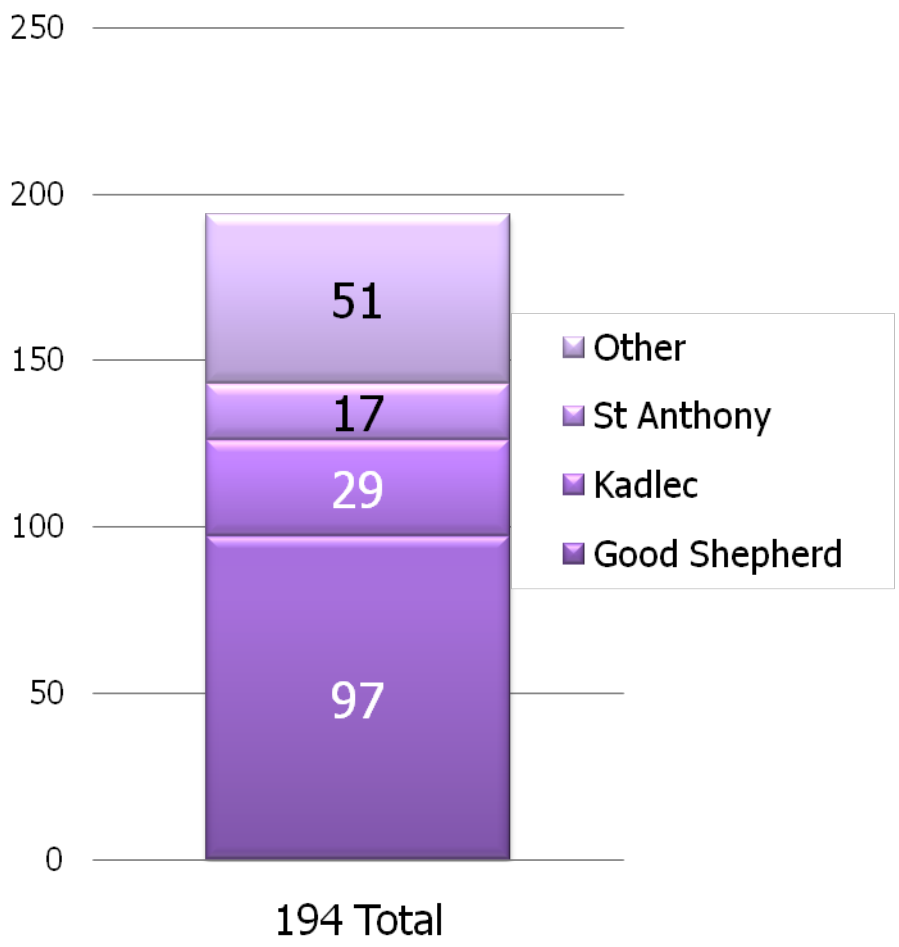
Boardman Service Area

	< 15	15-44	45-64	65+	
Population:	1136	1,765	966	339	4206

	ICD-9-CM	< 15	15-44	45-64	65+	Total
Operations on the Nervous System	01-05	3	5	4	3	**15**
Operations on the Endocrine System	06-07	*	0	0	0	**1**
Operations on the Eye	08-16	0	0	0	0	**1**
Operations on the Ears	18-20	0	0	*	*	**0**
Operations on the Nose, Mouth, and Pharnyx	21-29	1	1	1	1	**4**
Operations on the Respiratory System	30-34	1	3	5	5	**14**
Operations on the Cardiovascular System	35-39	4	10	34	33	**82**
Operations on the Hemic and Lymphatic System	40-41	*	1	2	1	**4**
Operations on the Digestive System	42-54	5	18	23	21	**66**
Operations on the Urinary System	55-59	0	3	5	4	**12**
Operations on the Male Genital Organs	60-64	1	0	1	1	**3**
Operations on the Female Genital Organs	65-71	0	15	8	2	**26**
Obstetrical Procedures	72-75	0	99	*	*	**99**
Operations on the Musculoskeletal System	76-84	3	13	20	15	**51**
Operations on the Integumentary System	85-86	*	7	6	4	**17**
					TOTAL Procedures	**394**

2006 National Hospital Discharge Survey, National Health Statistics Reports *No. 5* , July 30, 2008

Actual Inpatient PRINCIPAL Procedures from Boardman SA



- 57.6%, or 194 of the 337 total inpatients from Boardman Service Area had a principal procedure
- 50%, or 97 of the principal procedures were done at Good Shepherd.

Source: CompData (6/30/2008 - 6/30/2010)

Top ICD Principal Procedures for Boardman Service Area Inpatients

Inpatient Procedure in Oregon	Number of Procedures	Average Charge	Average Age
7359 Manual Assisted Delivery	23	$4,615	29
741 Low Cervical Cesarean	18	$11,906	29
4709 Other appendectomy	9	$13,679	22

Went to Washington State			
741 Low Cervical Cesarean	4	$11,571	33

Source: CompData (6/30/2009 - 6/30/2010)

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of ALL (principal and non-principal) Inpatient Procedures

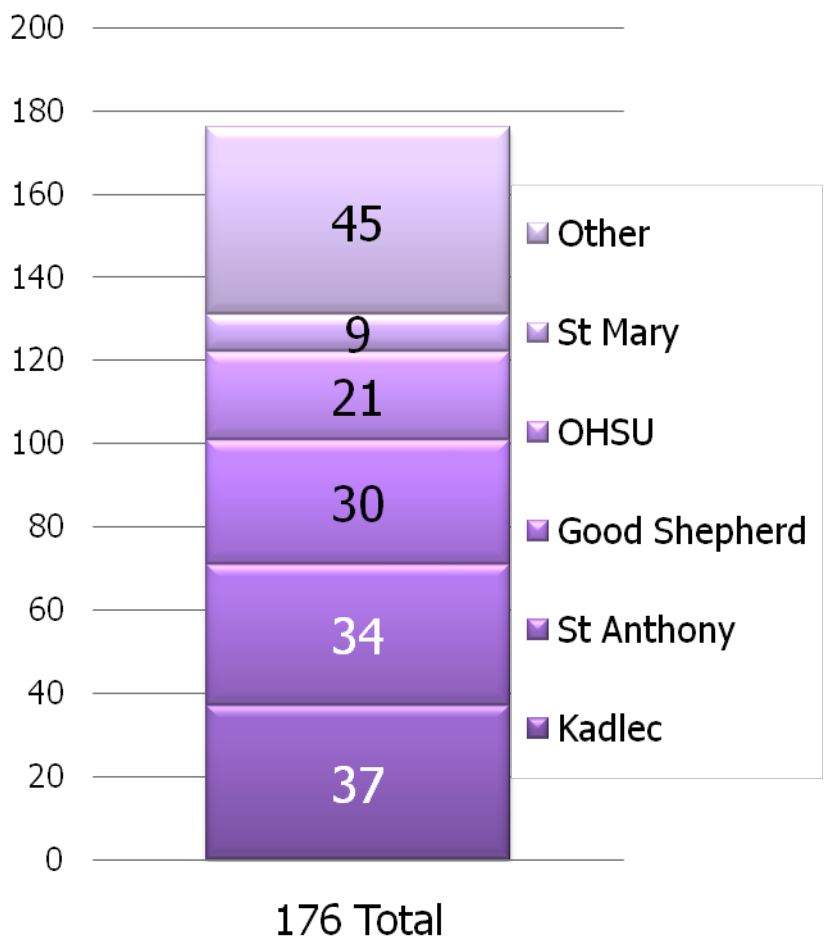
Heppner Service Area

	< 15	15-44	45-64	65+	
Population:	549	1,067	1,063	607	3286

	ICD-9-CM	< 15	15-44	45-64	65+	Total
Operations on the Nervous System	01-05	2	3	4	5	**14**
Operations on the Endocrine System	06-07	*	0	1	0	**1**
Operations on the Eye	08-16	0	0	0	0	**1**
Operations on the Ears	18-20	0	0	*	*	**0**
Operations on the Nose, Mouth, and Pharnyx	21-29	1	1	1	1	**4**
Operations on the Respiratory System	30-34	1	2	5	9	**16**
Operations on the Cardiovascular System	35-39	2	6	37	60	**105**
Operations on the Hemic and Lymphatic System	40-41	*	0	2	2	**5**
Operations on the Digestive System	42-54	2	11	25	38	**76**
Operations on the Urinary System	55-59	0	2	5	7	**14**
Operations on the Male Genital Organs	60-64	0	0	1	2	**4**
Operations on the Female Genital Organs	65-71	0	9	9	4	**22**
Obstetrical Procedures	72-75	0	60	*	*	**60**
Operations on the Musculoskeletal System	76-84	1	8	22	27	**58**
Operations on the Integumentary System	85-86	*	4	7	7	**18**
					TOTAL Procedures	**397**

2006 National Hospital Discharge Survey, National Health Statistics Reports *No. 5* , July 30, 2008

Actual Inpatient PRINCIPAL Procedures from Heppner SA



- 57.1%, or 176 of the 308 total inpatients from Heppner Service Area had a principal procedure
- Procedures were spread out among several different provider facilities.

Source: CompData (6/30/2008 - 6/30/2010)

Top ICD Principal Procedures for Heppner Service Area Inpatients

Inpatient Procedure in Oregon	Number of Procedures	Average Charge	Average Age
7359 Manual Assisted Delivery	12	$6,913	29
8154 Total Knee Replacement	11	$37,116	66
8151 Total Hip Replacement	5	$48,314	63

Went to Washington State			
741 Low Cervical Cesarean	3	$9,642	34

Source: CompData (6/30/2009 - 6/30/2010)

Low Intensity Diagnostic Related Groupings

- Study Used to Estimate Usage of Limited Service Hospitals
- Conducted by Rural Health Research Center – University of Minnesota
- Title: Service Limitation Options for Limited Service Rural Hospitals, March 1993

Low Intensity DRG Criteria

- DRG's Meet the Following Conditions
  - 72 Hour Service
  - No Surgical Cases
  - No Obstetrical Cases
  - Primary Care Providers
  - Basic Laboratory Services
  - No Blood Banking
  - Basic Radiology
  - ie. allergic reactions, poisoning, kidney infections, chest pain, concussion

Economic Impact of Irrigon SA Low-Intensity DRG Out-migration

	Irrigon Service Area
Total Low Intensity DRGs	80 (23.5% of all 340 Irrigon Inpatients)
Served @ Good Shepherd	40 (50% of Low Intensity Inpatients)

	Went instead to Kadlec
1. Number Served at...	13 (16.3% of Low Intensity Inpatients)
2. Avg Length of Stay	3.9 days
3. Avg Charge per Day	$4,092
1 x 2 x 3 =	$207,464
Collectible? @ 65% =	$134,852

Source: CompData (6/30/2008 - 6/30/2010)

Top Low Intensity DRGs for Irrigon Service Area

DRG	Oregon Hospitals	Number of Cases	Average Charge	Average Age
089	Simple Pneumonia >17 w CC	6	$9,780	74
088	Chronic Obstructive Pulmonary Dis	5	$9,058	72
359	Uter&Adnex Proc for Non-malig	5	$16,067	46

DRG	Washington Hospitals			
19 Total Low Intensity Inpatients in 08-09. No DRG had more than 2 cases.				

Source: CompData (6/30/2008 - 6/30/2010)

Economic Impact of Boardman SA Low-Intensity DRG Out-migration

	Boardman Service Area
Total Low Intensity DRGs	73 (21.7% of all 337 Boardman Inpatients)
Served @ Good Shepherd	36 (49.3% of Low Intensity Inpatients)

	Went instead to Kadlec
1. Number Served at...	10 (13.7% of Low Intensity Inpatients)
2. Avg Length of Stay	2.2 days
3. Avg Charge per Day	$4,714
1 x 2 x 3 =	$103,708
Collectible? @ 65% =	$67,410

Source: CompData (6/30/2008 - 6/30/2010)

Top Low Intensity DRGs for Boardman Service Area

DRG	Oregon Hospitals	Number of Cases	Average Charge	Average Age
089	Simple Pneumonia >17 w CC	5	$7,887	50
359	Uter&Adnex Proc for Non-malig	5	$22,725	39
091	Simple Pneumonia Age 0-17	4	$12,937	5
204	Disorders of Pancreas	4	$7,714	52

DRG	Washington Hospitals			
359	Uter&Adnex Proc for Non-malig	3	$15,113	51

Source: CompData (6/30/2008 - 6/30/2010)

Economic Impact of Heppner SA Low-Intensity DRG Out-migration

	Heppner Service Area
Total Low Intensity DRGs	71 (23.1% of all 308 Heppner Inpatients)
Served @ Pioneer Heppner	42 (59.2% of Low Intensity Inpatients)

	Went instead to Good Shepherd
1. Number Served at...	11 (15.5% of Low Intensity Inpatients)
2. Avg Length of Stay	2.2 days
3. Avg Charge per Day	$4,308
1 x 2 x 3 =	$104,254
Collectible? @ 65% =	$67,765

Source: CompData (6/30/2008 - 6/30/2010)

Top Low Intensity DRGs for Heppner Service Area

DRG	Oregon Hospitals	Number of Cases	Average Charge	Average Age
089	Simple Pneumonia >17 w CC	9	$8,409	76
088	Chronic Obstructive Pulmonary Dis	4	$5,316	66
359	Uter&Adnex Proc for Non-malig	4	$18,960	46
274	Cellulitis Age >17 w/o CC	4	$7,028	63

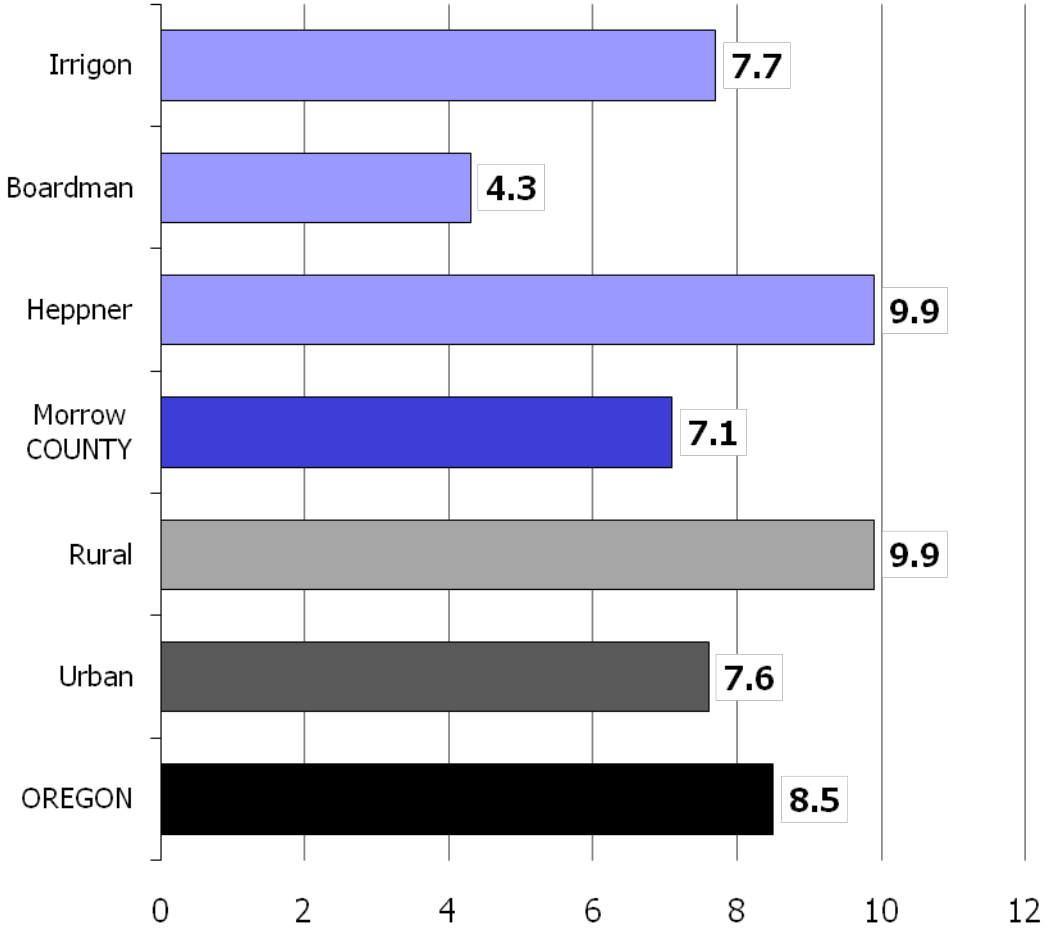
DRG	Washington Hospitals			
359	Uter&Adnex Proc for Non-malig	3	$15,514	45
462	Rehabilitation	3	$27,093	77

Source: CompData (6/30/2008 - 6/30/2010)

Ambulatory Sensitive Conditions

- These are reasons for admission to a hospital which are deemed “avoidable” if the patient had made appropriate use of the primary care system, ie. asthma, diabetes, pneumonia
- Created by John Billings Ph.D. United Hospital Fund of New York

Ambulatory Care Sensitive Conditions per 1000 Population



- 2007-2009 average per year
- People over age 65 are 8 times more likely to have avoidable hospitalizations than those under 65.

Source: CompData, Health Affairs (Mar/Apr 2001)

Top ACSC Principal ICD Diagnoses for Irrigon Service Area

Principal ACSC ICD Diagnosis Oregon	Number of Cases	Average Charge	Average Age
486 Pneumonia Organism NOS	9	$11,376	58
49121 OCB w/Exacerbation	5	$9,058	72

Washington			
There were 6 total ACSC cases that went to WA in 08-09.			

Source: CompData (6/30/2008 - 6/30/2010)

Top ACSC Principal ICD Diagnoses for Boardman Service Area

Principal ACSC ICD Diagnosis Oregon	Number of Cases	Average Charge	Average Age
486 Pneumonia Organism NOS	8	$10,280	32

Washington			
There were 6 total ACSC cases that went to WA in 08-09.			

Source: CompData (6/30/2008 - 6/30/2010)

Top ACSC Principal ICD Diagnoses for Heppner Service Area

Principal ACSC ICD Diagnosis Oregon	Number of Cases	Average Charge	Average Age
486 Pneumonia Organism NOS	10	$13,366	70
6826 Leg Cellulitis	9	$6,777	62

Washington			
There were no ACSC cases that went to WA in 08-09.			

Source: CompData (6/30/2008 - 6/30/2010)

Outpatient Surgery Rates

- This is also known as Ambulatory Surgery, which "refers to surgical and nonsurgical procedures performed on an ambulatory basis in a hospital or freestanding center's operating rooms, and other specialized rooms."
- Nationally, only 57.2% of ambulatory surgery visits are hospital-based
- Western states have 32% fewer visits compared to the country as a whole
- Non-Metro areas have 14.5% fewer visits compared to the country as a whole

Source: National Health Statistic Reports Number 11, Ambulatory Surgery in the United States, 2006

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Ambulatory Surgery Visits

Irrigon Service Area

	< 15	15-44	45-64	65-74	75+	
Population:	1,011	1,706	1,074	306	195	4292

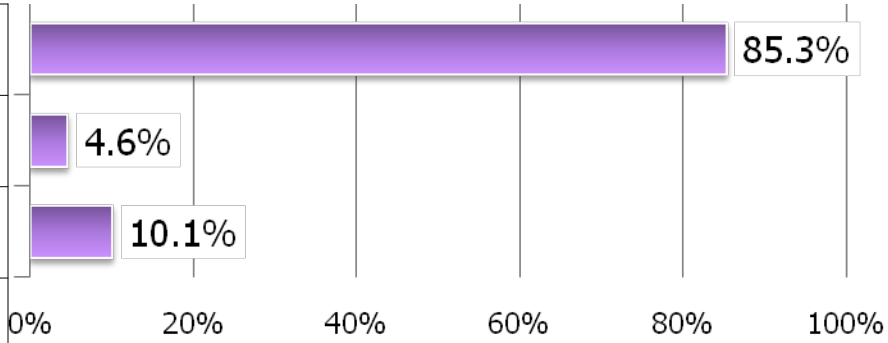
	ICD-9-CM	< 15	15-44	45-64	65-74	75+	Total
Infectious and Parasitic Diseases	001-139	-	-	1	-	-	**1**
Neoplasms	140-239	1	5	21	12	6	**46**
Endocrine, Nutritional, Immunity	240-279	-	1	1	1	-	**3**
Diseases of the Nervous System and Sense Organs	320-389	12	6	18	21	17	**74**
Diseases of the Circulatory System	390-459	-	3	12	6	3	**24**
Diseases of the Respiratory System	460-519	10	5	3	1	0	**20**
Diseases of the Digestive System	520-579	5	22	39	20	10	**96**
Diseases of the Genitounnary System	580-629	2	16	15	6	3	**41**
Complications of Pregnancy, Childbirth	630-676		4				**4**
Diseases of the Skin and Subcutaneous Tissue	680-709	1	3	3	-	1	**8**
Diseases of the Musculoskeletal Sys & Connective Tissue	710-739	1	18	29	10	5	**63**
Congenital Anomalies	740-759	2	2	-	-	-	**4**
Symptoms, Signs, and Ill-Defined Conditions	780-799	-	5	7	3	2	**18**
Injury and Poisoning	800-999	3	11	12	4	2	**32**
Supplementary Classifications	V01-V82	1	11	20	8	4	**44**
Misc Diseases	280-319,760-779	-	1	1	1	1	**3**
						TOTAL Estimated Ambulatory Surgery Visits	**481**

Ambulatory Surgery in the United States, 2006; National Health Statistics Reports *No. 11* , Sept 4, 2009

481 – 32% (western adjustment)= 327 – 14.5% (non-metro adj) = 280

Irrigon Service Area
Outpatient Surgery Discharges

Used Good Shepherd	221
Used St Anthony	12
Other Hospitals (<3% ea.)	26
Actual # of Discharges*	**259**



- Market Share is the percentage of all discharges from the primary service area that are captured in the local hospital.

*OREGON DATA ONLY.

Source: CompData (6/30/2009 – 6/30/2010)

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Ambulatory Surgery Visits

Boardman Service Area

	< 15	15-44	45-64	65-74	75+	
Population:	1,136	1,765	966	223	116	4206

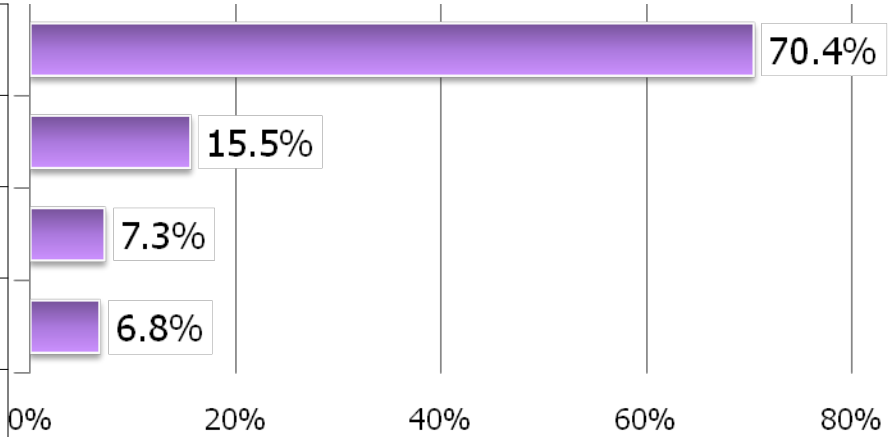
	ICD-9-CM	< 15	15-44	45-64	65-74	75+	Total
Infectious and Parasitic Diseases	001-139	-	-	1	-	-	**1**
Neoplasms	140-239	1	5	19	9	4	**39**
Endocrine, Nutritional, Immunity	240-279	-	1	1	0	-	**3**
Diseases of the Nervous System and Sense Organs	320-389	14	6	16	16	10	**61**
Diseases of the Circulatory System	390-459	-	4	11	4	2	**21**
Diseases of the Respiratory System	460-519	11	6	3	1	0	**20**
Diseases of the Digestive System	520-579	6	22	35	15	6	**84**
Diseases of the Genitounnary System	580-629	2	16	14	4	2	**38**
Complications of Pregnancy, Childbirth	630-676		4				**4**
Diseases of the Skin and Subcutaneous Tissue	680-709	1	3	3	-	0	**8**
Diseases of the Musculoskeletal Sys & Connective Tissue	710-739	1	19	26	7	3	**56**
Congenital Anomalies	740-759	2	2	-	-	-	**4**
Symptoms, Signs, and Ill-Defined Conditions	780-799	-	6	7	2	1	**16**
Injury and Poisoning	800-999	3	11	11	3	1	**29**
Supplementary Classifications	V01-V82	1	11	18	6	2	**39**
Misc Diseases	280-319,760-779	-	1	1	1	0	**3**
						TOTAL Estimated Ambulatory Surgery Visits	**425**

Ambulatory Surgery in the United States, 2006; National Health Statistics Reports *No. 11* , Sept 4, 2009

425 – 32% (western adjustment)= 289 – 14.5% (non-metro adj) = 247

Boardman Service Area Outpatient Surgery Discharges

Used Good Shepherd	145
Used St Anthony	32
Used OHSU	15
Other Hospitals (<2% ea.)	14
Actual # of Discharges*	**206**



*OREGON DATA ONLY.

Source: CompData (6/30/2009 – 6/30/2010)

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Ambulatory Surgery Visits

Heppner Service Area

	< 15	15-44	45-64	65-74	75+	
Population:	549	1,067	1,063	332	275	3286

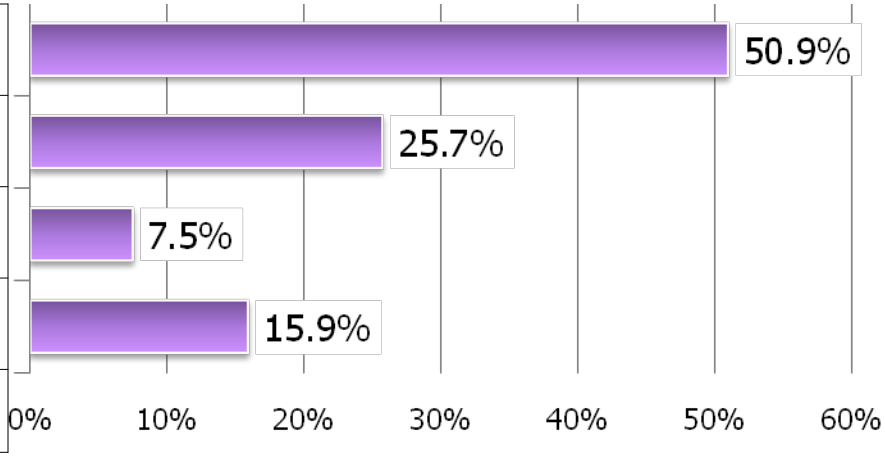
	ICD-9-CM	< 15	15-44	45-64	65-74	75+	Total
Infectious and Parasitic Diseases	001-139	-	-	1	-	-	**1**
Neoplasms	140-239	1	3	21	14	9	**47**
Endocrine, Nutritional, Immunity	240-279	-	1	1	1	-	**3**
Diseases of the Nervous System and Sense Organs	320-389	7	3	18	23	24	**75**
Diseases of the Circulatory System	390-459	-	2	12	6	4	**25**
Diseases of the Respiratory System	460-519	5	3	3	1	1	**13**
Diseases of the Digestive System	520-579	3	14	38	22	14	**91**
Diseases of the Genitounnary System	580-629	1	10	15	6	4	**36**
Complications of Pregnancy, Childbirth	630-676		3				**3**
Diseases of the Skin and Subcutaneous Tissue	680-709	1	2	3	-	1	**6**
Diseases of the Musculoskeletal Sys & Connective Tissue	710-739	1	11	29	11	7	**59**
Congenital Anomalies	740-759	1	1	-	-	-	**2**
Symptoms, Signs, and Ill-Defined Conditions	780-799	-	3	7	3	2	**16**
Injury and Poisoning	800-999	2	7	12	5	2	**27**
Supplementary Classifications	V01-V82	1	7	20	9	6	**42**
Misc Diseases	280-319,760-779	-	0	1	1	1	**3**
						TOTAL Estimated Ambulatory Surgery Visits	**449**

Ambulatory Surgery in the United States, 2006; National Health Statistics Reports *No. 11* , Sept 4, 2009

449 – 32% (western adjustment)= 305 – 14.5% (non-metro adj) = 261

Heppner Service Area Outpatient Surgery Discharges

Used Good Shepherd	109
Used St Anthony	55
Used Mid-Columbia Medical	16
Other Hospitals (<5% ea.)	34
Actual # of Discharges*	**214**



*OREGON DATA ONLY.

Source: CompData (6/30/2009 – 6/30/2010)

Outpatient Surgery Procedures

- Each discharge can have multiple procedures
- Procedure estimates are for ALL (not just principal) procedures
- Nationally, only 57.7% of ambulatory surgery procedures are hospital-based
- Western states have 29.4% fewer procedures compared to the country as a whole
- Non-Metro areas have 15.3% fewer procedures compared to the country as a whole

Source: National Health Statistic Reports Number 11, Ambulatory Surgery in the United States, 2006

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of ALL (principal and non-principal) Ambulatory Procedures

Irrigon Service Area

		< 15	15-44	45-64	65-74	75+	
	Population:	1,011	1,706	1,074	306	195	4292
	ICD-9-CM	**< 15**	**15-44**	**45-64**	**65-74**	**75+**	**Total**
Operations on the Nervous System	01-05	0	12	20	7	5	**44**
Operations on the Eye	08-16	2	4	24	37	30	**96**
Operations on the Ear	18-20	14	2	1	1	0	**18**
Operations on the Nose, Mouth, and Pharnyx	21-29	17	13	9	3	1	**43**
Operations on the Respiratory System	30-34	1	1	3	1	1	**6**
Operations on the Cardiovascular System	35-39	0	2	9	5	3	**19**
Operations on the Digestive System	42-54	0	38	93	47	21	**199**
Operations on the Urinary System	55-59	0	5	9	6	4	**24**
Operations on the Male Genital Organs	60-64	3	2	2	2	1	**9**
Operations on the Female Genital Organs	65-71	0	22	10	2	1	**34**
Operations on the Musculoskeletal System	76-84	5	35	53	14	5	**113**
Operations on the Integumentary System	85-86	3	17	20	7	4	**50**
Diagnostic and Therapeutic Procedures	87-99	4	20	36	16	9	**85**
Miscellaneous Other Procedures	06-07,40-41,72-75	0	1	2	1	0	**5**
					TOTAL Estimated Ambulatory Procedures		**745**

Ambulatory Surgery in the United States, 2006; National Health Statistics Reports *No. 11* , Sept 4, 2009

745 – 29.4% (western adjustment)= 526 – 15.3% (non-metro adj) = 445

Top Outpatient Surgery Principal Procedures from Irrigon SA

Irrigon Outpatient Procedures *Oregon Only	Number of Procedures	Average Charge	Average Age
4516 EGD w/closed biopsy	23	$2,992	52
4523 Colonoscopy	17	$2,625	60
806 Exc Knee Semilunar Cart	15	$8,320	47
4525 Closed Large Intestine Biopsy	14	$3,364	59

Source: CompData (6/30/2009 – 6/30/2010)

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of ALL (principal and non-principal) Ambulatory Procedures

Boardman Service Area

		< 15	15-44	45-64	65-74	75+	
	Population:	1,136	1,765	966	223	116	4206

	ICD-9-CM	< 15	15-44	45-64	65-74	75+	Total
Operations on the Nervous System	01-05	0	12	18	5	3	**38**
Operations on the Eye	08-16	2	4	21	27	18	**72**
Operations on the Ear	18-20	16	2	1	0	0	**19**
Operations on the Nose, Mouth, and Pharnyx	21-29	20	13	8	2	1	**43**
Operations on the Respiratory System	30-34	1	1	2	1	0	**5**
Operations on the Cardiovascular System	35-39	0	2	8	3	2	**15**
Operations on the Digestive System	42-54	0	40	83	34	12	**170**
Operations on the Urinary System	55-59	0	5	8	4	2	**20**
Operations on the Male Genital Organs	60-64	3	2	2	1	0	**9**
Operations on the Female Genital Organs	65-71	0	23	9	1	0	**34**
Operations on the Musculoskeletal System	76-84	6	37	48	10	3	**103**
Operations on the Integumentary System	85-86	3	17	18	5	2	**46**
Diagnostic and Therapeutic Procedures	87-99	5	20	32	12	5	**75**
Miscellaneous Other Procedures	06-07,40-41,72-75	0	1	2	1	0	**4**
						TOTAL Estimated Ambulatory Procedures	**653**

Ambulatory Surgery in the United States, 2006; National Health Statistics Reports *No. 11* , Sept 4, 2009

653 – 29.4% (western adjustment)= 624 – 15.3% (non-metro adj) = 608

Top Outpatient Surgery Principal Procedures from Boardman SA

Irrigon Outpatient Procedures *Oregon Only	Number of Procedures	Average Charge	Average Age
4516 EGD w/closed biopsy	14	$3,288	54
0443 Carpal Tunnel Release	9	$3,294	49
4525 Closed Large Intestine Biopsy	9	$3,567	57
5123 Lapscp Cholecystectomy	9	$14,484	33

Source: CompData (6/30/2009 – 6/30/2010)

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of ALL (principal and non-principal) Ambulatory Procedures

Heppner Service Area

		< 15	15-44	45-64	65-74	75+	
	Population:	549	1,067	1,063	332	275	3286
	ICD-9-CM	**< 15**	**15-44**	**45-64**	**65-74**	**75+**	**Total**
Operations on the Nervous System	01-05	0	8	20	7	7	**42**
Operations on the Eye	08-16	1	2	23	40	42	**108**
Operations on the Ear	18-20	8	1	1	1	1	**11**
Operations on the Nose, Mouth, and Pharnyx	21-29	9	8	9	3	1	**31**
Operations on the Respiratory System	30-34	0	1	3	2	1	**6**
Operations on the Cardiovascular System	35-39	0	1	9	5	5	**20**
Operations on the Digestive System	42-54	0	24	92	51	29	**196**
Operations on the Urinary System	55-59	0	3	9	6	5	**24**
Operations on the Male Genital Organs	60-64	2	1	2	2	1	**8**
Operations on the Female Genital Organs	65-71	0	14	10	2	1	**26**
Operations on the Musculoskeletal System	76-84	3	22	53	15	7	**100**
Operations on the Integumentary System	85-86	1	10	20	8	5	**45**
Diagnostic and Therapeutic Procedures	87-99	2	12	36	18	13	**81**
Miscellaneous Other Procedures	06-07,40-41,72-75	0	1	2	1	1	**5**
						TOTAL Estimated Ambulatory Procedures	**702**

Ambulatory Surgery in the United States, 2006; National Health Statistics Reports *No. 11* , Sept 4, 2009

702 – 29.4% (western adjustment)= 673 – 15.3% (non-metro adj) = 657

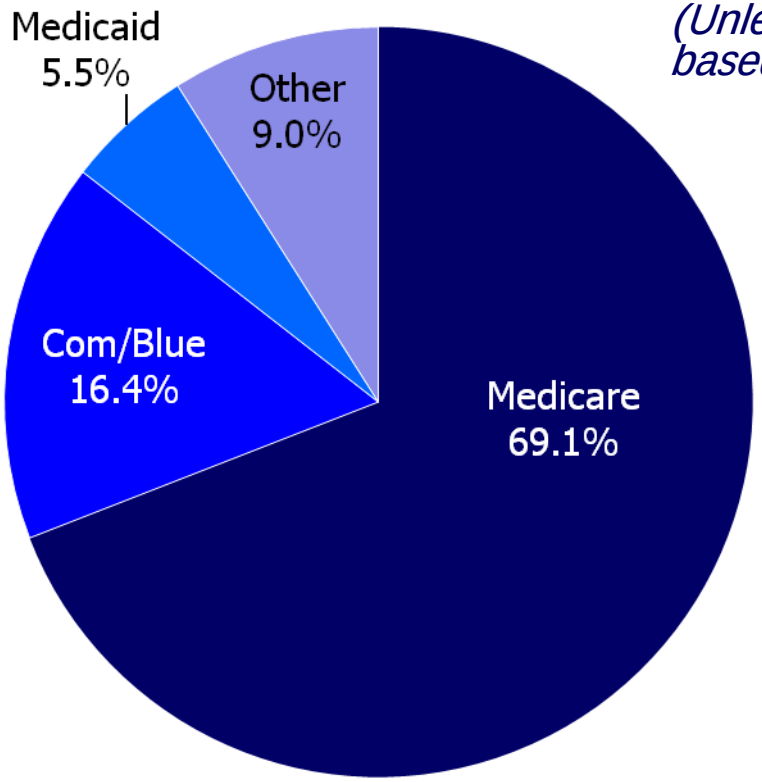
Top Outpatient Surgery Principal Procedures from Heppner SA

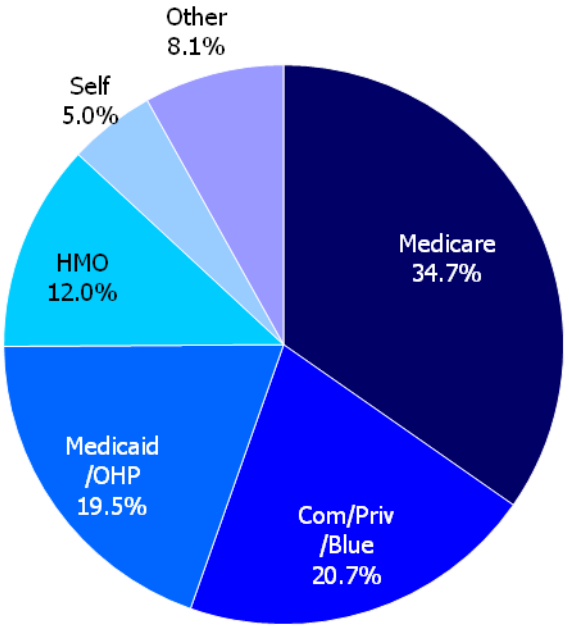
Irrigon Outpatient Procedures *Oregon Only	Number of Procedures	Average Charge	Average Age
4523 Colonoscopy	15	$2,497	61
4525 Closed Large Intestine Biopsy	14	$3,617	65
4516 EGD w/closed biopsy	12	$3,068	58
5123 Lapscp Cholecystectomy	10	$13,760	52
806 Exc Knee Semilunar Cart	10	$6,797	49

Source: CompData (6/30/2009 – 6/30/2010)

Pioneer Memorial Heppner Hospital Inpatient Payer Mix (from All Areas)

- Payer mix is crucial to the financial health of a hospital. You do not want to be overly dependent on Medicare and Medicaid as sources of revenue. *(Unless you are a CAH–In that case you get cost-based reimbursement for Medicare and Medicaid)*

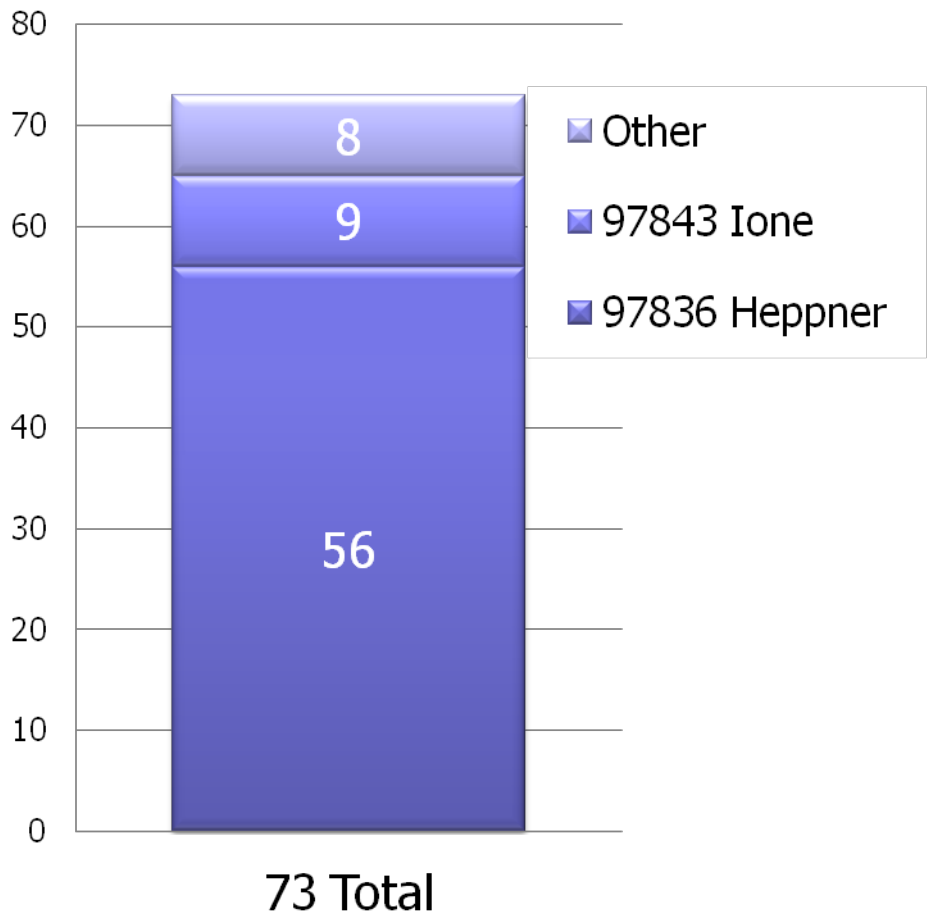




PAYER MIX OF ALL OREGON INPATIENTS

Source: CompData (6/30/2009 - 6/30/2010)

Origin of All Inpatients at Pioneer Memorial Heppner Hospital



- Pioneer Memorial Heppner Hospital gets 77% of its inpatient volume from 97836 Heppner.

Source: CompData (6/30/2009 - 6/30/2010)

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Emergency Room Visits

Irrigon Service Area

Age	Population		Rate per 100	# of ER Visits
MALES				
< 15	514	X	34.8	**179**
15-24	299	X	55.7	**167**
25-44	563	X	47.8	**269**
45-64	550	X	34.5	**190**
65-74	138	X	38.4	**53**
> 74	97	X	61.8	**60**
FEMALES				
< 15	497	X	37.6	**187**
15-24	296	X	53.0	**157**
25-44	548	X	44.6	**244**
45-64	524	X	32.7	**171**
65-74	168	X	35.1	**59**
> 74	98	X	59.4	**58**
TOTALS	4,292			**1,794**

National Hospital Ambulatory Medical Care Survey: 2006 Emergency Department Summary, National Health Statistics Reports No. 7, Aug 6, 2008

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Emergency Room Visits

Boardman Service Area

Age	Population		Rate per 100	# of ER Visits
MALES				
< 15	572	X	34.8	**199**
15-24	324	X	55.7	**180**
25-44	620	X	47.8	**296**
45-64	507	X	34.5	**175**
65-74	111	X	38.4	**43**
> 74	59	X	61.8	**36**
FEMALES				
< 15	564	X	37.6	**212**
15-24	271	X	53.0	**144**
25-44	550	X	44.6	**245**
45-64	459	X	32.7	**150**
65-74	112	X	35.1	**39**
> 74	57	X	59.4	**34**
TOTALS	4,206			**1,754**

National Hospital Ambulatory Medical Care Survey: 2006 Emergency Department Summary, National Health Statistics Reports No. 7, Aug 6, 2008

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Emergency Room Visits

Heppner Service Area

Age	Population		Rate per 100	# of ER Visits
MALES				
< 15	285	X	34.8	**99**
15-24	233	X	55.7	**130**
25-44	337	X	47.8	**161**
45-64	531	X	34.5	**183**
65-74	168	X	38.4	**65**
> 74	134	X	61.8	**83**
FEMALES				
< 15	264	X	37.6	**99**
15-24	194	X	53.0	**103**
25-44	303	X	44.6	**135**
45-64	532	X	32.7	**174**
65-74	164	X	35.1	**58**
> 74	141	X	59.4	**84**
TOTALS	3,286			**1,373**

National Hospital Ambulatory Medical Care Survey: 2006 Emergency Department Summary, National Health Statistics Reports No. 7, Aug 6, 2008

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Non-Motor Vehicle Ambulance Calls

Irrigon Service Area

Age	Population	# of Calls per 1,000	Total Calls in Each Age Group
0 to 4	315	21.4	**7**
5 to 9	333	8.1	**3**
10 to 14	363	13.6	**5**
15 to 19	378	25.5	**10**
20 to 24	217	29.9	**6**
25 to 34	587	30.4	**18**
35 to 44	524	32.7	**17**
45 to 54	581	39.0	**23**
55 to 64	493	57.3	**28**
65 to 74	306	99.8	**31**
75 +	195	264.4	**52**
	4292	**TOTAL**	**199**

Calls per 1000 based on average of 1999-2001 actual non-motor vehicle ambulance calls in Non-Metro counties only. Illinois Department of Public Health, Division of Emergency Medical Services and Highway Safety (EMS) data reporting system.

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Non-Motor Vehicle Ambulance Calls

Boardman Service Area

Age	Population	# of Calls per 1,000	Total Calls in Each Age Group
0 to 4	378	21.4	**8**
5 to 9	358	8.1	**3**
10 to 14	400	13.6	**5**
15 to 19	387	25.5	**10**
20 to 24	208	29.9	**6**
25 to 34	571	30.4	**17**
35 to 44	599	32.7	**20**
45 to 54	547	39.0	**21**
55 to 64	419	57.3	**24**
65 to 74	223	99.8	**22**
75 +	116	264.4	**31**
	4206	**TOTAL**	**168**

Calls per 1000 based on average of 1999-2001 actual non-motor vehicle ambulance calls in Non-Metro counties only. Illinois Department of Public Health, Division of Emergency Medical Services and Highway Safety (EMS) data reporting system.

COMMUNITY HEALTH IMPROVEMENT PARTNERSHIP

Estimates of Non-Motor Vehicle Ambulance Calls

Heppner Service Area

Age	Population	# of Calls per 1,000	Total Calls in Each Age Group
0 to 4	151	21.4	**3**
5 to 9	190	8.1	**2**
10 to 14	208	13.6	**3**
15 to 19	278	25.5	**7**
20 to 24	149	29.9	**4**
25 to 34	325	30.4	**10**
35 to 44	315	32.7	**10**
45 to 54	548	39.0	**21**
55 to 64	515	57.3	**30**
65 to 74	332	99.8	**33**
75 +	275	264.4	**73**
	3286	**TOTAL**	**196**

Calls per 1000 based on average of 1999-2001 actual non-motor vehicle ambulance calls in Non-Metro counties only. Illinois Department of Public Health, Division of Emergency Medical Services and Highway Safety (EMS) data reporting system.