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Substance Abuse Service and the CHIS

April 1, 2010

Ryan J. Tappin
Research Associate

"...to raise new ideas and improve policy debates through quality information and analysis on issues shaping New Hampshire's future."

What we did

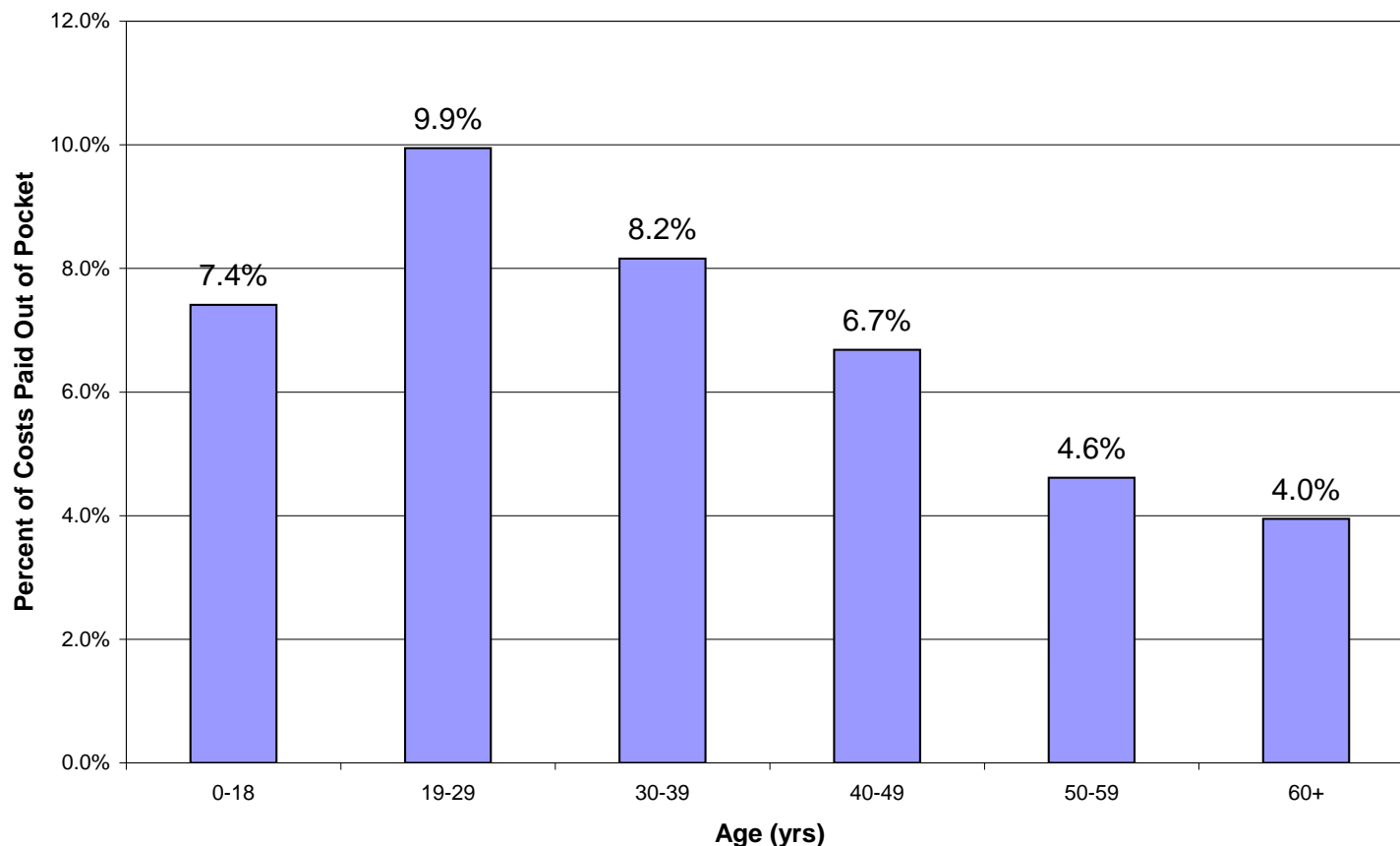
- CHIS data sets from 2005-2007.
- Took any claim with a DX code indicating an alcohol or drug use disorder (not including tobacco).
- Examine the scope of substance abuse services covered by private insurers.
- Trying to answer a few basic questions
 - Demographics
 - Types of diagnoses
 - Services received
 - Types of facilities
 - Out-of-pocket expenses
- Highlights of our first cut

More individuals and higher OOP over the years

	2005	2006	2007
Total Expenditures	\$19,567,092	\$21,004,798	\$22,337,488
Service Count	72,517	76,188	75,187
Total Individuals	6,159	6,448	6,538
Avg. Cost per Service	\$270	\$276	\$297
Avg. Cost per Person	\$3,177	\$3,258	\$3,417
Avg. Services per Person	12	12	12
Avg. OOP Cost per Service	\$16	\$18	\$20
Avg. OOP Cost per Person	\$191	\$209	\$227
Avg. Private Cost per Service	\$254	\$258	\$277
Avg. Private Cost per Person	\$2,986	\$3,048	\$3,189
Percent OOP of Total Cost	6.0%	6.4%	6.7%

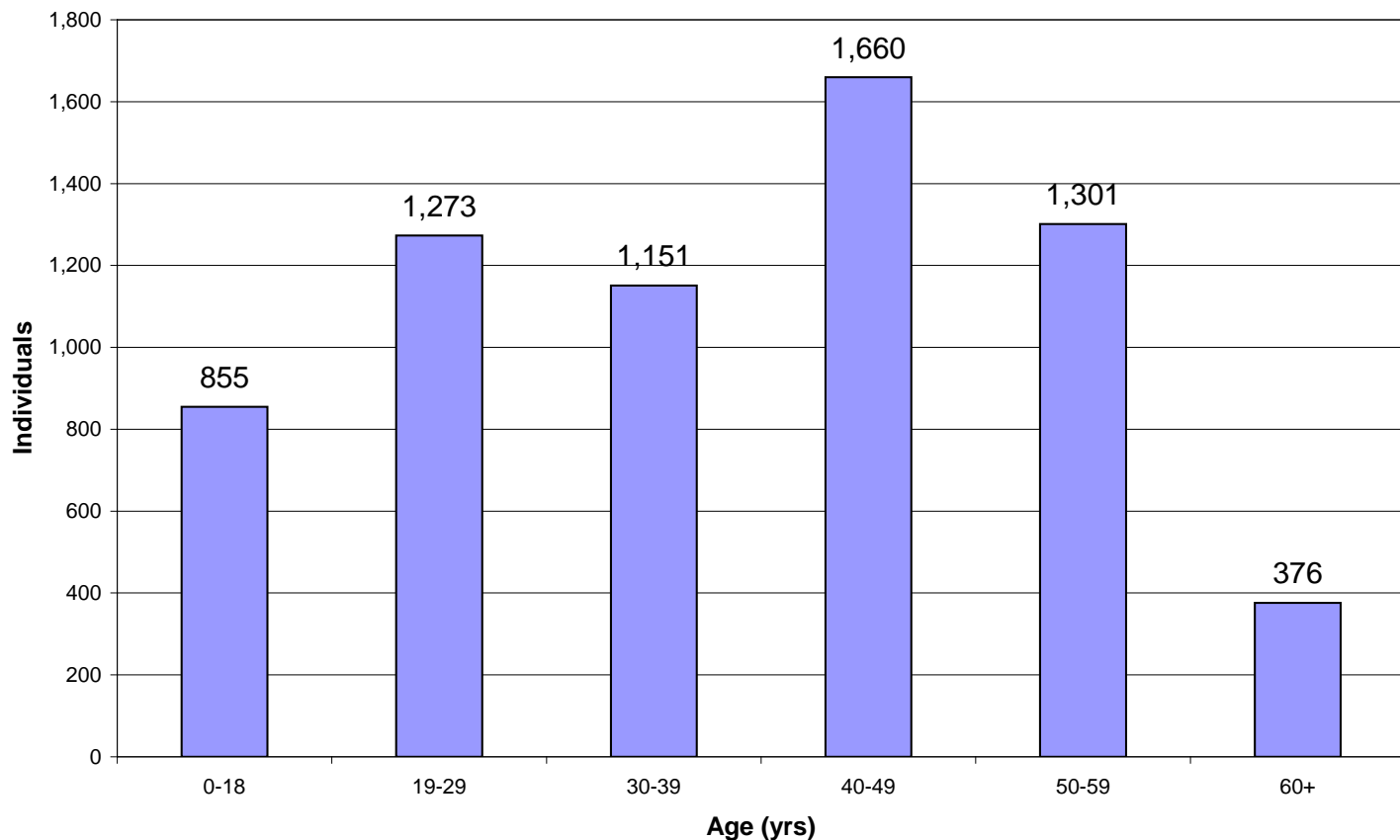
Young adults pay the highest percent OOP

Percent of OOP Costs for AOD Services by Age Group



But, more middle aged adults accessed services

Number of Individuals accessing AOD Services by Age Group



2007 data

Difference across gender

Gender	Total Expenditures	Service Count	Total Individuals	Avg. Cost per Service	Avg. Cost per Person	Avg. Services per Person
Female	\$8,394,410	32,331	2,688	\$260	\$3,123	12
Male	\$13,943,078	42,856	3,850	\$325	\$3,622	11
TOTAL	\$22,337,488	75,187	6,538	\$297	\$3,417	12

Gender	Avg. OOP Cost per Service	Avg. OOP Cost per Person	Avg. Private Cost per Service	Avg. Private Cost per Person	Percent OOP of Total Cost
Female	\$18	\$217	\$242	\$2,905	7.0%
Male	\$21	\$234	\$304	\$3,387	6.5%
TOTAL	\$20	\$227	\$277	\$3,189	6.7%

Differences across diagnosis

Diagnosis Category (based on primary diagnosis)	Total Expenditures	Service Count	Total Individuals	Avg. Cost per Service	Avg. Cost per Person	Avg. Services per Person
Co-occurring non-MH DX as primary	\$11,896,390	24,230	2,565	\$491	\$4,638	9
Substance Abuse	\$3,886,176	21,710	2,578	\$179	\$1,507	8
Co-occurring MH DX as primary	\$2,621,534	8,552	1,384	\$307	\$1,894	6
Substance Dependence	\$2,545,855	18,388	1,766	\$138	\$1,442	10
Disease Related to Substance Use Disorder	\$1,387,534	2,307	245	\$601	\$5,663	9

Diagnosis Category (based on primary diagnosis)	Avg. OOP Cost per Service	Avg. OOP Cost per Person	Avg. Private Cost per Service	Avg. Private Cost per Person	Percent OOP of Total Cost
Co-occurring non-MH DX as primary	\$19	\$176	\$472	\$4,462	3.8%
Substance Abuse	\$20	\$166	\$159	\$1,341	11.0%
Co-occurring MH DX as primary	\$27	\$164	\$280	\$1,730	8.6%
Substance Dependence	\$18	\$192	\$120	\$1,250	13.3%
Disease Related to Substance Use Disorder	\$17	\$161	\$584	\$5,503	2.8%

Differences across co-occurring MH disorder

MH Co-occurring	Total Expenditures	Service Count	Total Individuals	Avg. Cost per Service	Avg. Cost per Person	Avg. Services per Person
Mental Health Disorder Co-occurring	\$6,801,625	21,247	2,817	\$320	\$2,414	8
No MH Disorder Present	\$15,535,863	53,940	5,866	\$288	\$2,648	9

MH Co-occurring	Avg. OOP Cost per Service	Avg. OOP Cost per Person	Avg. Private Cost per Service	Avg. Private Cost per Person	Percent OOP of Total Cost
Mental Health Disorder Co-occurring	\$23	\$171	\$297	\$2,243	7.1%
No MH Disorder Present	\$19	\$171	\$269	\$2,477	6.5%

Differences across facility types

Facility Type	Total Expenditures	Service Count	Total Individuals	Avg. Cost per Service	Avg. Cost per Person	Avg. Services per Person
INPATIENT HOSPITAL	\$15,485,351	17,068	1,408	\$907	\$10,998	12
OUTPATIENT HOSPITAL	\$4,117,169	31,229	2,429	\$132	\$1,695	13
OFFICE	\$1,316,946	14,299	3,407	\$92	\$387	4
EMERGENCY ROOM - HOSPITAL	\$608,909	4,848	1,663	\$126	\$366	3
AMBULANCE - LAND	\$247,004	1,160	398	\$213	\$621	3
INDEPENDENT LABORATORY	\$157,219	3,619	394	\$43	\$399	9
OTHER UNLISTED FACILITY	\$143,544	524	105	\$274	\$1,367	5
PSYCHIATRIC RESIDENTIAL TREATMENT CENTER	\$92,830	1,136	235	\$82	\$395	5
HOME HEALTH	\$56,820	507	58	\$112	\$980	9
COMMUNITY MENTAL HEALTH CENTER	\$42,810	603	144	\$71	\$297	4

Differences across facility types

Facility Type	Avg. OOP Cost per Service	Avg. OOP Cost per Person	Avg. Private Cost per Service	Avg. Private Cost per Person	Percent OOP of Total Cost
INPATIENT HOSPITAL	\$34	\$409	\$874	\$10,589	3.7%
OUTPATIENT HOSPITAL	\$14	\$179	\$118	\$1,516	10.5%
OFFICE	\$18	\$74	\$75	\$313	19.1%
EMERGENCY ROOM - HOSPITAL	\$18	\$52	\$108	\$314	14.3%
AMBULANCE - LAND	\$33	\$96	\$180	\$524	15.5%
INDEPENDENT LABORATORY	\$6	\$60	\$37	\$340	14.9%
OTHER UNLISTED FACILITY	\$57	\$284	\$217	\$1,083	20.8%
PSYCHIATRIC RESIDENTIAL TREATMENT CENTER	\$13	\$65	\$68	\$330	16.4%
HOME HEALTH	\$5	\$44	\$107	\$936	4.5%
COMMUNITY MENTAL HEALTH CENTER	\$23	\$94	\$48	\$203	31.7%

Next steps

- Examine the overall difference in total medical care between the cohort of individuals with AOD versus the cohort of AOD individuals
- How does this reflect changes in private insurance coverage over this time period?
- How does this reflect changes in coverage within policy benefits?



THANK YOU!

All of our research on mental
health in New Hampshire is
available at

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