

# **DATA**

**for**

## **Vermont Workgroup on Psychotropic Medications for Children and Adolescents**

**Originally Prepared for Presentation on  
January 5, 2009**

**VT Mental Health Research & Statistics Unit**

**Revised to include tabular presentation of findings with all graphs.  
Revised to separate individuals with a diagnosis of Autism  
from "Schizophrenia and Related Psychoses".**

**Children's Ages?**

**Children's Diagnoses?**

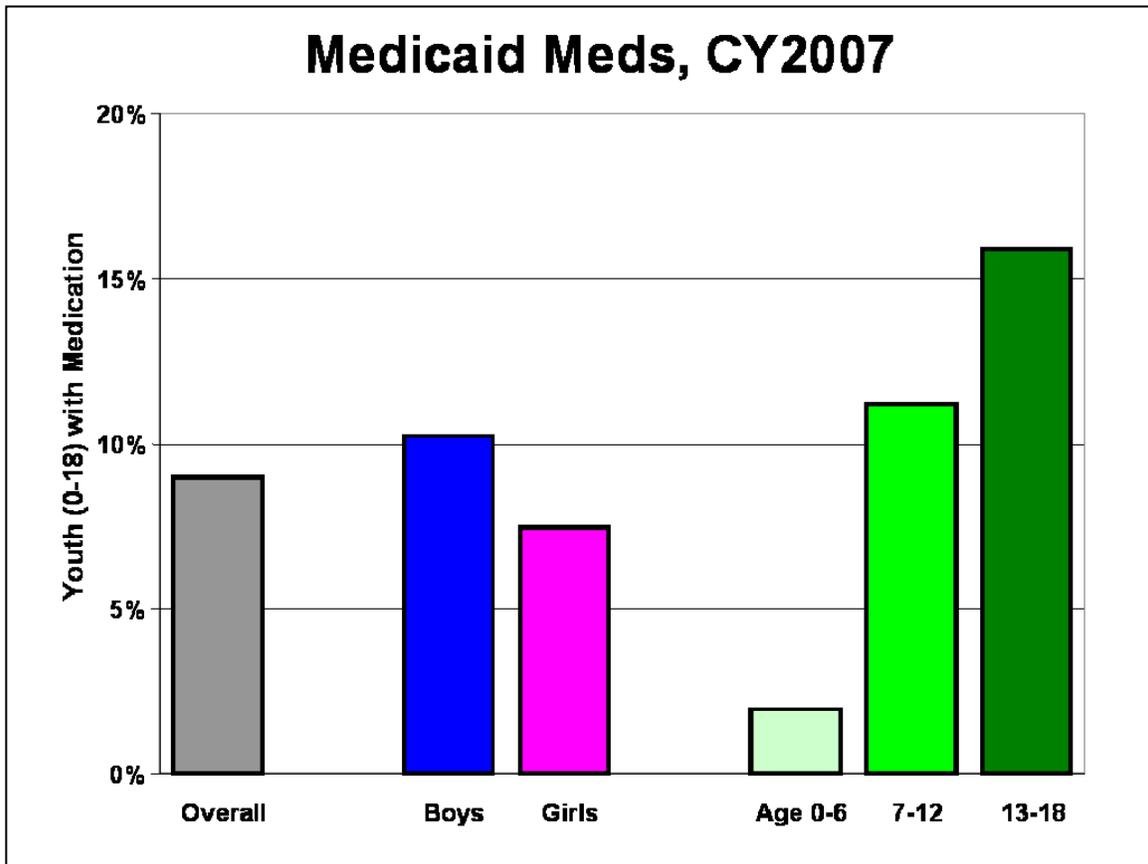
**Variation within Vermont?**

**Prescribers?**

**Medication with & without Therapy?**

**Change over time?**

**Data Sources?**



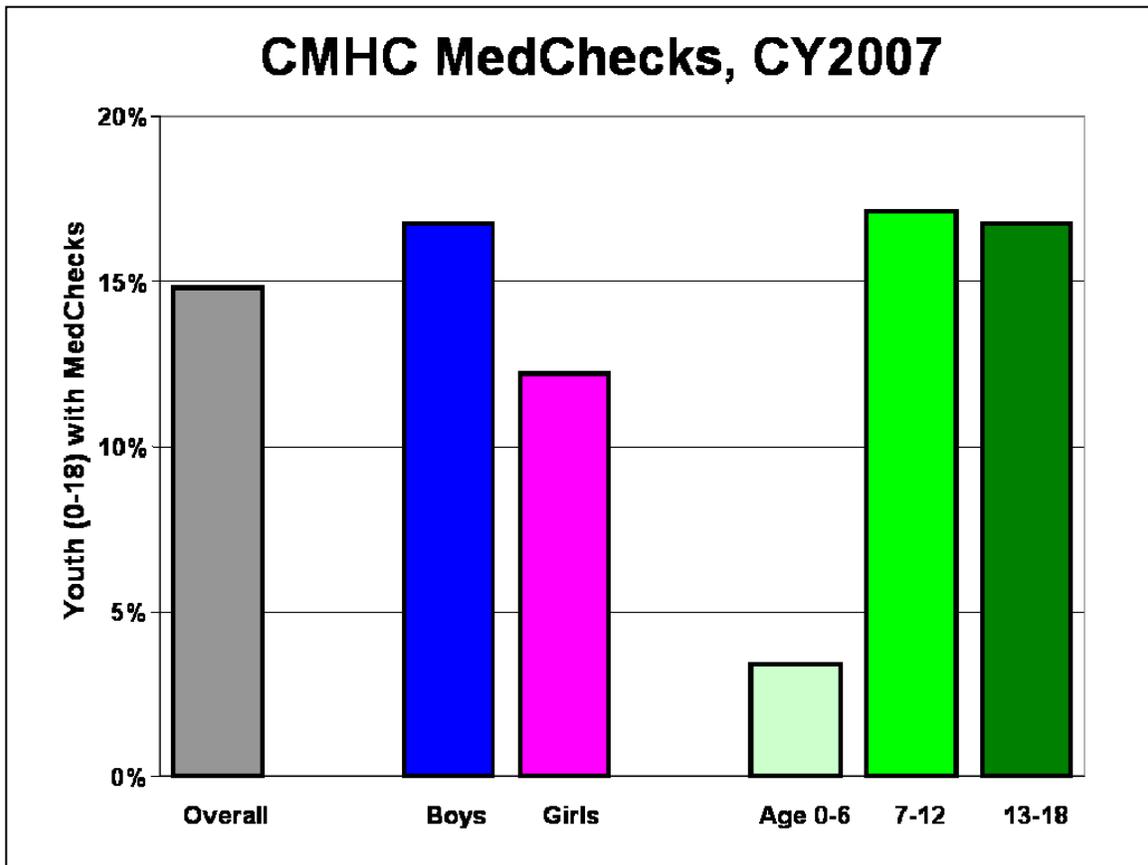
### Medicaid Meds, CY2007

		<u>Total</u>	<u>Boys</u>	<u>Girls</u>	<u>Age 0-6</u>	<u>Age 7-12</u>	<u>Age 13-18</u>
Enrolled	#	71,081	36,534	34,547	28,539	21,256	21,286
with Medication	#	6,378	3,781	2,597	557	2,393	3,478
% with Medication*		9%	10%	7%	2%	11%	16%

\* Percent of Medicaid enrolled Youth

Based on analysis of Vermont Medicaid paid claims for youth aged 18 and under during CY2007.

Analysis conducted by the Vermont Mental Health Performance Indicator Project.



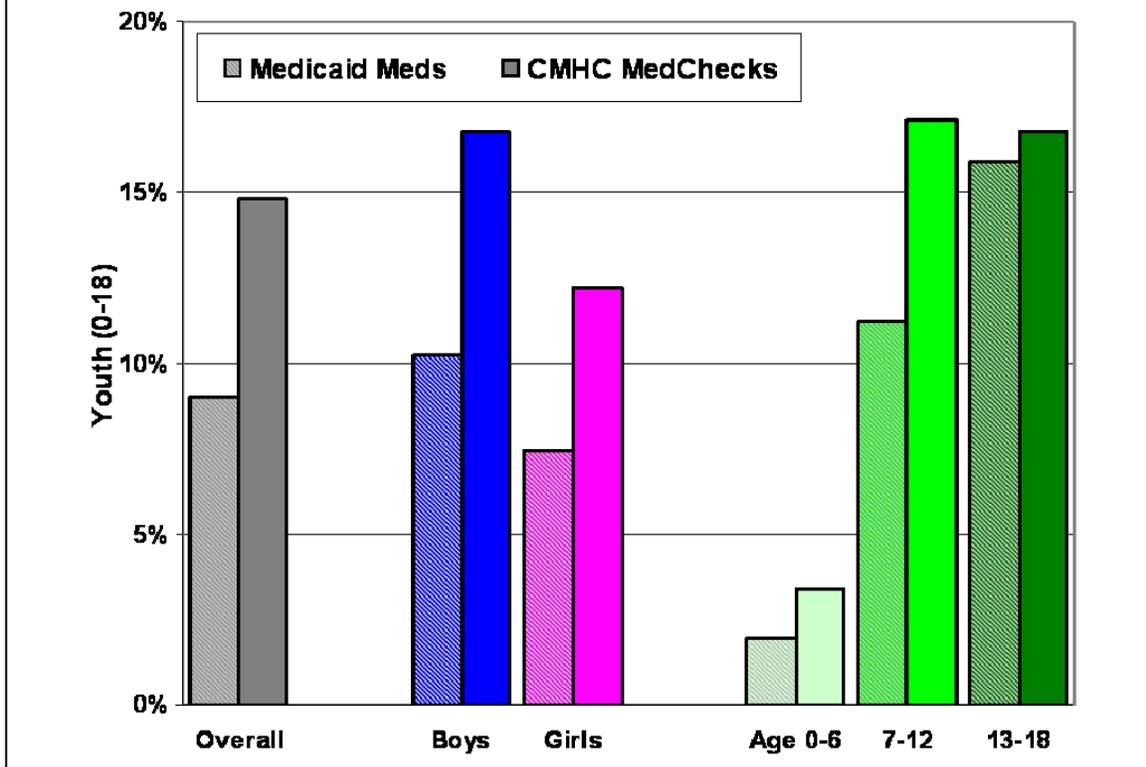
### CMHC Medchecks, CY2007

	<u>Total</u>	<u>Boys</u>	<u>Girls</u>	<u>Age 0-6</u>	<u>Age 7-12</u>	<u>Age 13-18</u>
CMHC Children #	9,482	5,417	4,063	1,482	3,337	4,663
with Medchecks #	1,407	915	492	52	573	782
% with Medchecks	15%	17%	12%	4%	17%	17%

Based on analysis of Monthly Service Report (MSR) data submitted by the designated agencies to the Vermont Department of Mental Health. Medication and Medical Support and Consultation Services (Medchecks) include evaluation of the need for psychoactive medication, the prescription by a qualified clinician, therapist, psychiatrist or nurse practitioner of psychoactive drugs intended to mitigate or prevent symptoms of mental illness, and the monitoring and assessment of patient reaction to prescribed drugs.

Analysis conducted by the Vermont Mental Health Performance Indicator Project.

# Medicaid Meds & CMHC MedChecks, CY2007



## Medicaid Meds CY2007

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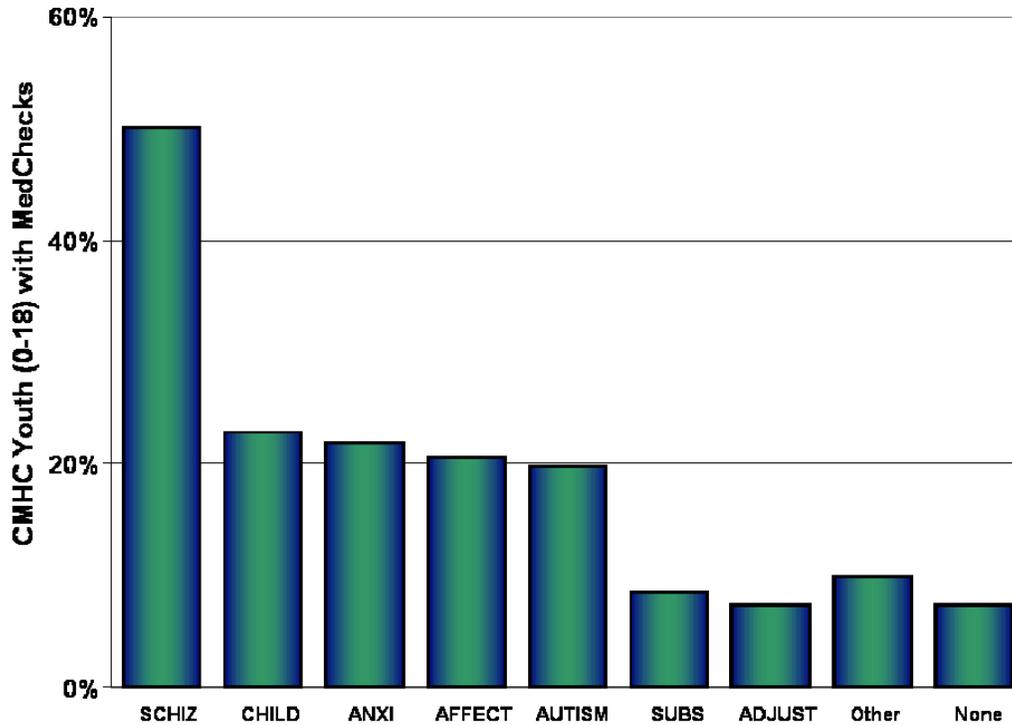
## CMHC Medchecks CY2007

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Analysis conducted by the Vermont Mental Health Performance Indicator Project.

## MedChecks by Diagnosis, CY2007\*



\*Analysis revised on February 18, 2009  
to separate Autism from the Schizophrenia and other Psychoses Diagnosis Group.

## Medchecks by Diagnosis, CY2007

	Primary Diagnosis									Total
	SCHIZ	CHILD	ANXI	AFFECT	AUTISM	SUBS	ADJUST	Other	None	
CMHC Children #	12	2,167	1,214	1,140	247	294	3,220	191	997	9,482
with Medchecks #	6	501	263	237	48	24	235	20	73	1,407
% with Medchecks	50%	23%	22%	21%	19%	8%	7%	10%	7%	15%

Based on analysis of Monthly Service Report (MSR) data submitted by the designated agencies to the Vermont Department of Mental Health. Medication and Medical Support and Consultation Services (Medchecks) include evaluation of the need for psychoactive medication, the prescription by a qualified clinician, therapist, psychiatrist or nurse practitioner of psychoactive drugs intended to mitigate or prevent symptoms of mental illness, and the monitoring and assessment of patient reaction to prescribed drugs.

### DSM IV CODES INCLUDED IN EACH DIAGNOSTIC CATEGORY:

**Schizophrenic and Other Psychotic Disorders:** 295.30, 295.70, 298.90.

**Childhood Non-Psychotic Disorders:** 309.21, 312.80, 312.81, 312.82, 312.89, 312.90, 313.23, 313.80, 313.81, 313.82, 313.89, 313.90, 314.00, 314.01, 314.80, 314.90.

**Anxiety Disorders:** 300.00, 300.01, 300.02, 300.11, 300.14, 300.15, 300.20, 300.21, 300.23, 300.29, 300.30, 300.70, 300.81, 307.89, 308.30, 309.81.

**Affective Disorders:** 296.00, 296.01, 296.02, 296.04, 296.20, 296.21, 296.22, 296.23, 296.24, 296.25, 296.26, 296.30, 296.31, 296.32, 296.33, 296.34, 296.36, 296.40, 296.44, 296.50, 296.54, 296.55, 296.60, 296.62, 296.63, 296.70, 296.80, 296.89, 296.90, 300.40, 301.13, 311.00.

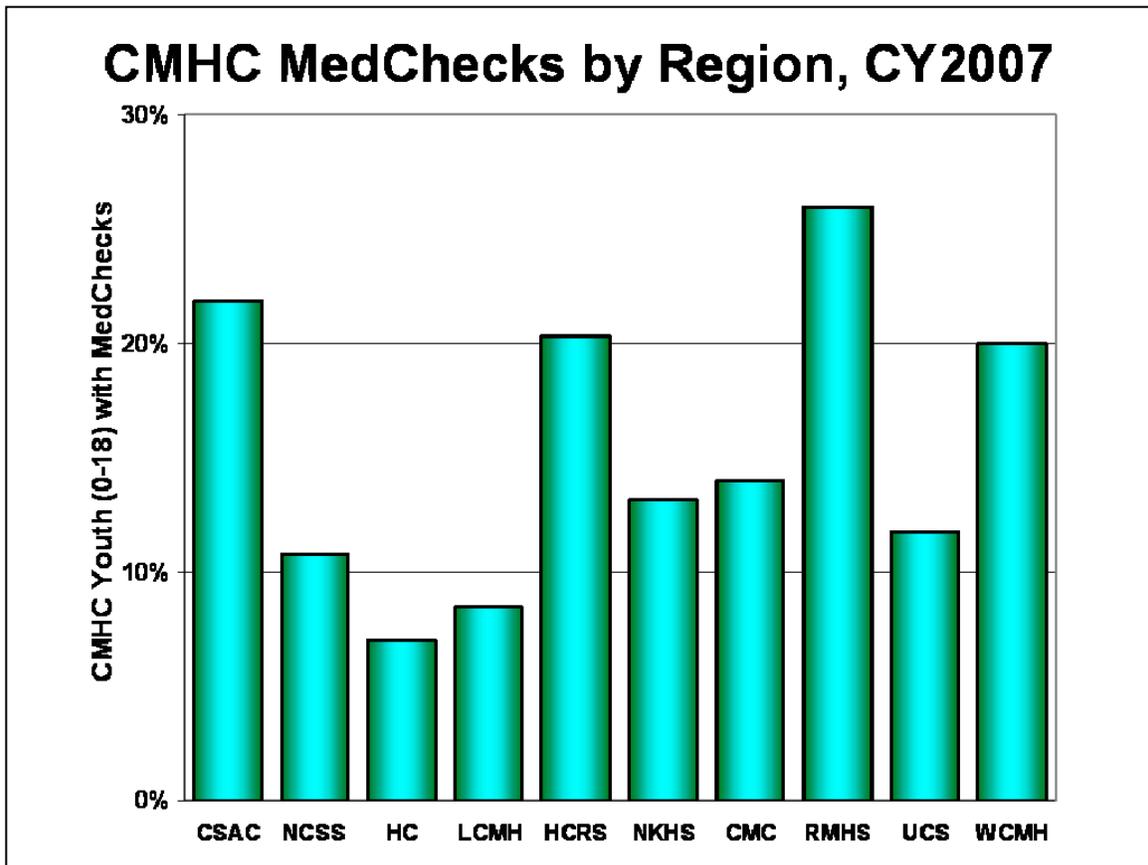
**Autism:** 299.80, 299.00, 299.90.

**Substance Abuse:** 303.90, 304.00, 304.20, 304.30, 304.40, 304.80, 304.90, 305.00, 305.10, 305.20, 305.50, 305.60, 305.90.

**Adjustment Disorders:** 309.00, 309.10, 309.20, 309.24, 309.28, 309.30, 309.40, 309.90.

**Other Psychological Disorders:** 291.90, 292.90, 293.82, 293.83, 293.89, 293.90, 301.40, 301.60, 301.83, 302.20, 302.40, 302.85, 302.90, 303.00, 307.10, 307.21, 307.23, 307.42, 307.47, 307.50, 307.60, 307.70, 310.10, 312.30, 312.34, 312.39, 315.00, 315.20, 315.30, 315.31, 315.32, 315.39, 315.90, 317.00, 318.00, 319.00.

Analysis conducted by the Vermont Mental Health Performance Indicator Project.

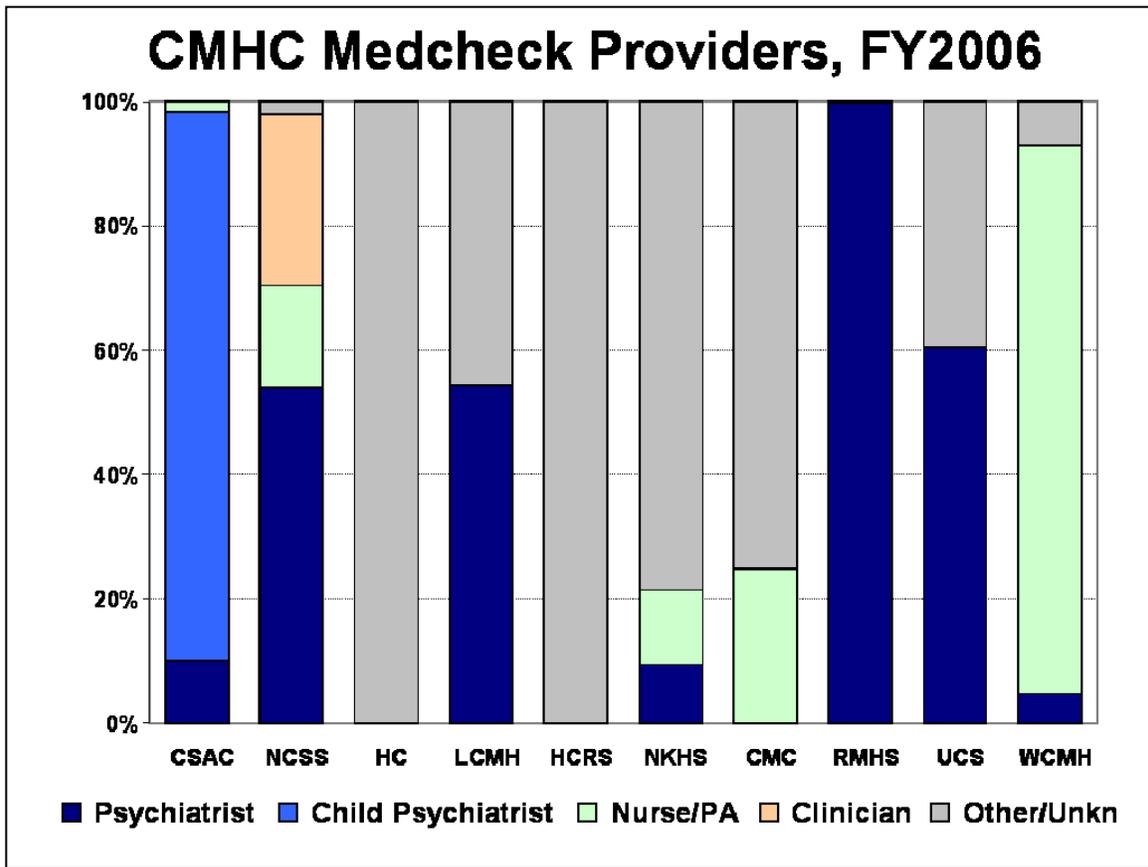


## CMHC Medchecks by Region, CY2007

	<u>Total</u>	<u>CSAC</u>	<u>NCSS</u>	<u>HC</u>	<u>LCMH</u>	<u>HCRS</u>	<u>NKHS</u>	<u>CMC</u>	<u>RMHS</u>	<u>UCS</u>	<u>WCMH</u>
CMHC Children	9,482	804	1,201	2,049	420	1,394	829	583	866	573	763
with Medchecks	1,407	178	134	143	29	283	111	83	227	67	152
% with Medchecks	15%	22%	11%	7%	8%	20%	13%	14%	26%	12%	20%

Based on analysis of Monthly Service Report (MSR) data submitted by the designated agencies to the Vermont Department of Mental Health. Medication and Medical Support and Consultation Services (Medchecks) include evaluation of the need for psychoactive medication, the prescription by a qualified clinician, therapist, psychiatrist or nurse practitioner of psychoactive drugs intended to mitigate or prevent symptoms of mental illness, and the monitoring and assessment of patient reaction to prescribed drugs.

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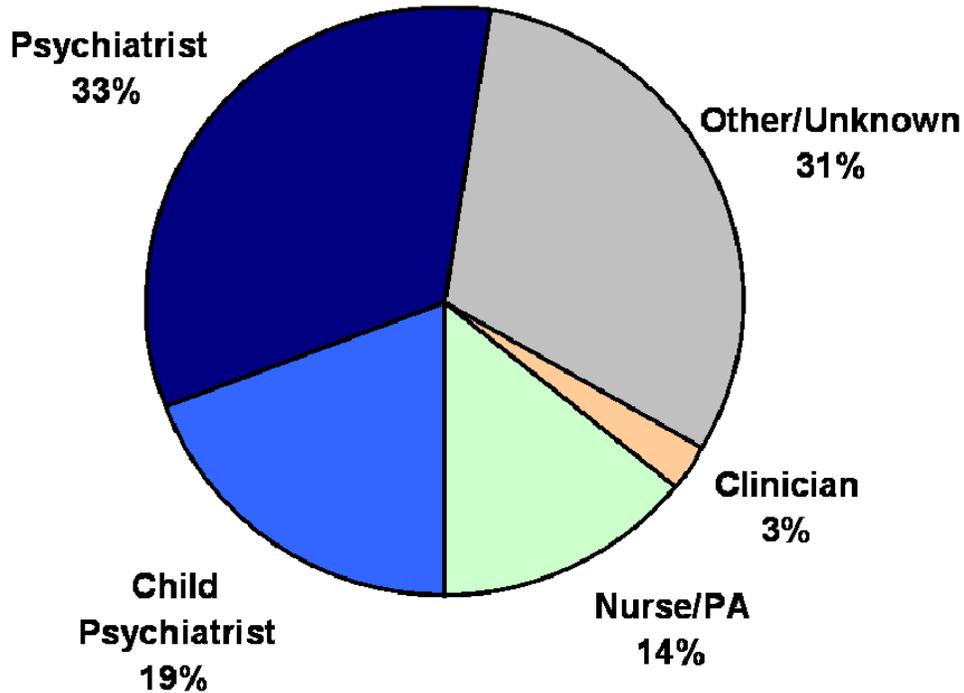
### CMHC Medcheck Providers, FY2006 (Includes Medcheck Services Provided by Children's Programs)

	<u>Total</u>	<u>CSAC</u>	<u>NCSS</u>	<u>HC</u>	<u>LCMH</u>	<u>HCRS</u>	<u>NKHS</u>	<u>CMC</u>	<u>RMHS</u>	<u>UCS</u>	<u>WCMH</u>
Psychiatrist	2,182	143	324	-	114	-	53	-	1,343	175	30
Child Psychiatrist	1,262	1,262	-	-	-	-	-	-	-	-	-
Nurse/PA	933	25	99	-	-	-	67	171	1	-	570
Clinician	168	-	166	-	-	-	-	2	-	-	-
Other/Unkn	2,022	-	12	509	96	286	441	519	-	114	45
<b>Total</b>	<b>6,567</b>	<b>1,430</b>	<b>601</b>	<b>509</b>	<b>210</b>	<b>286</b>	<b>561</b>	<b>692</b>	<b>1,344</b>	<b>289</b>	<b>645</b>

Based on analysis of Monthly Service Report (MSR) data submitted by the designated agencies to the Vermont Department of Mental Health. Medication and Medical Support and Consultation Services (Medchecks) include evaluation of the need for psychoactive medication, the prescription by a qualified clinician, therapist, psychiatrist or nurse practitioner of psychoactive drugs intended to mitigate or prevent symptoms of mental illness, and the monitoring and assessment of patient reaction to prescribed drugs.

Analysis conducted by the Vermont Mental Health Performance Indicator Project.

## CMHC Medcheck Providers, FY2006

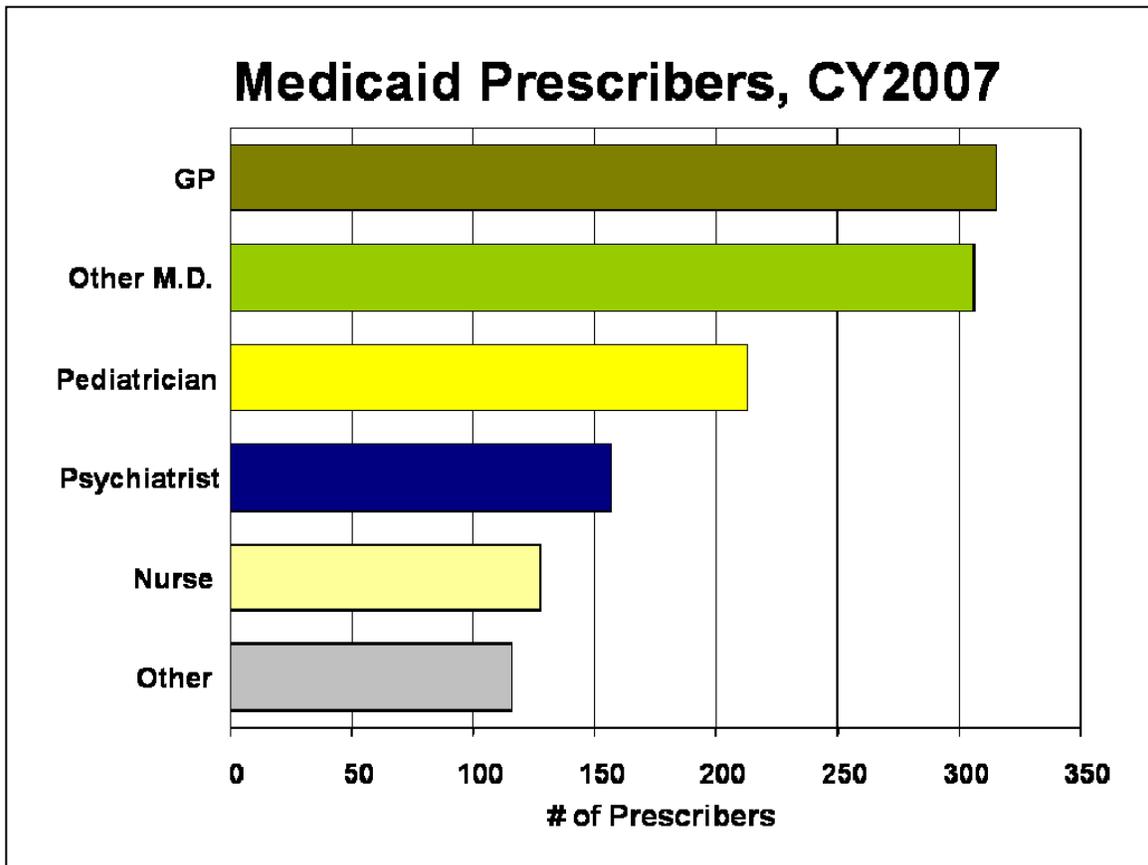


## CMHC Medcheck Providers, FY2006 (Includes Medcheck Services Provided by Children's Programs)

	<u>Total</u>	<u>Psychiatrist</u>	<u>Other/Unkn</u>	<u>Child Psychiatrist</u>	<u>Nurse/PA</u>	<u>Clinician</u>
% of Medchecks	100%	33%	31%	19%	14%	3%
# of Medchecks	6,567	2,182	2,022	1,262	933	168

Based on analysis of Monthly Service Report (MSR) data submitted by the designated agencies to the Vermont Department of Mental Health. Medication and Medical Support and Consultation Services (Medchecks) include evaluation of the need for psychoactive medication, the prescription by a qualified clinician, therapist, psychiatrist or nurse practitioner of psychoactive drugs intended to mitigate or prevent symptoms of mental illness, and the monitoring and assessment of patient reaction to prescribed drugs.

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## Medicaid Prescribers, CY2007

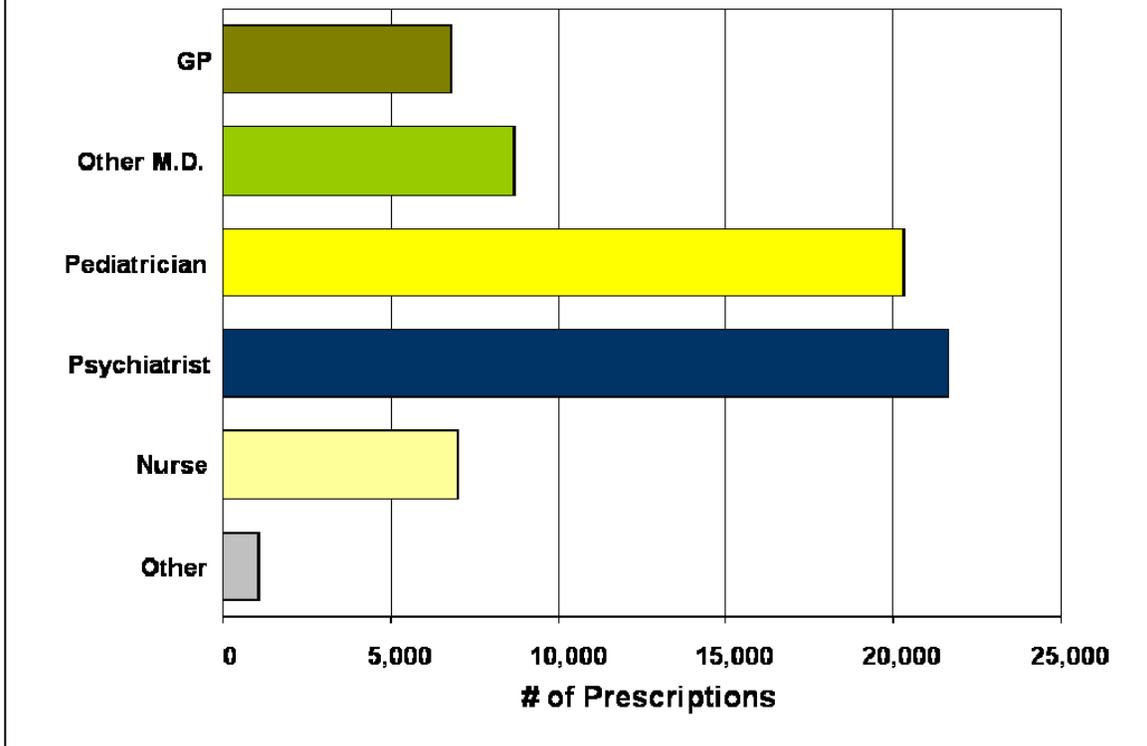
### Number of Prescribing Providers in Medicaid

<u>Total</u>	<u>GP</u>	<u>Other M.D.</u>	<u>Pediatrician</u>	<u>Psychiatrist</u>	<u>Nurse</u>	<u>Other</u>
1,235	315	306	213	157	128	116

Based on analysis of Vermont Medicaid paid claims for youth aged 18 and under during CY2007.

Analysis conducted by the Vermont Mental Health Performance Indicator Project.

## Medicaid Prescriptions, CY2007



## Medicaid Prescriptions, CY2007

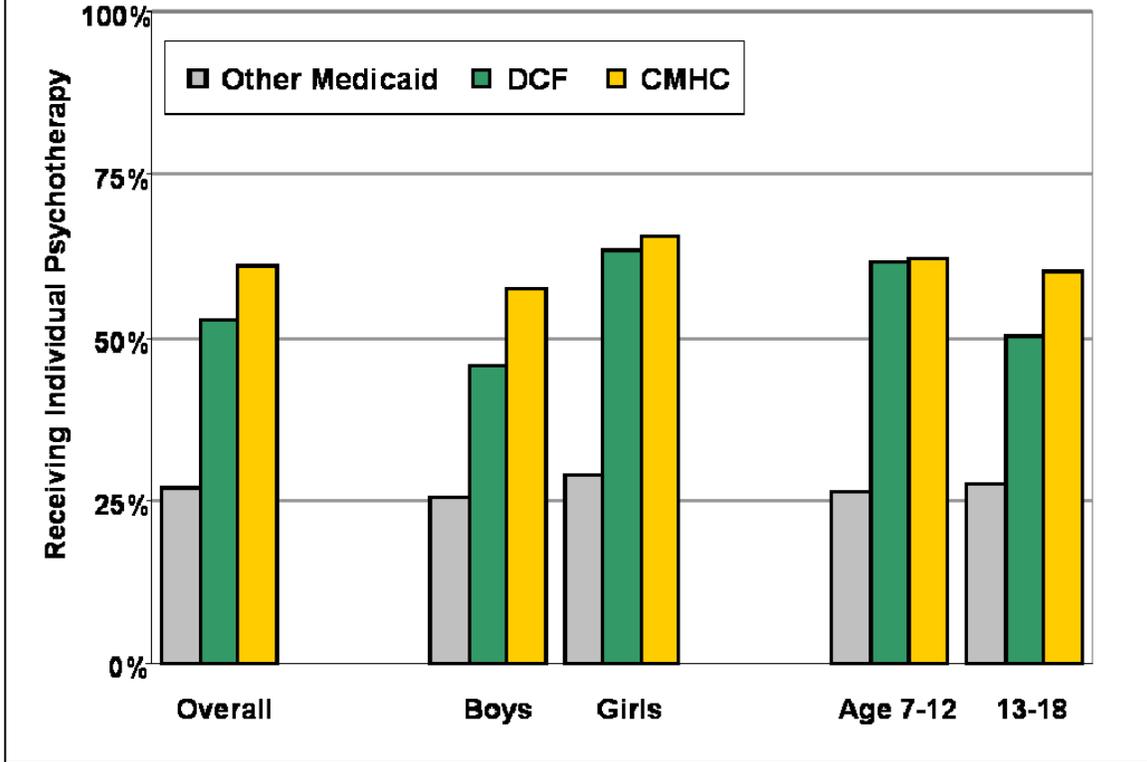
### Number of Prescriptions to Youth (Aged 18 and Under) by Provider Type in Medicaid

<u>Total</u>	<u>GP</u>	<u>Other M.D.</u>	<u>Pediatrician</u>	<u>Psychiatrist</u>	<u>Nurse</u>	<u>Other</u>
65,470	6,775	8,681	20,324	21,633	7,014	1,043

Based on analysis of Vermont Medicaid paid claims for youth aged 18 and under during CY2007.

Analysis conducted by the Vermont Mental Health Performance Indicator Project.

## Medicaid Meds and Therapy, FY2008



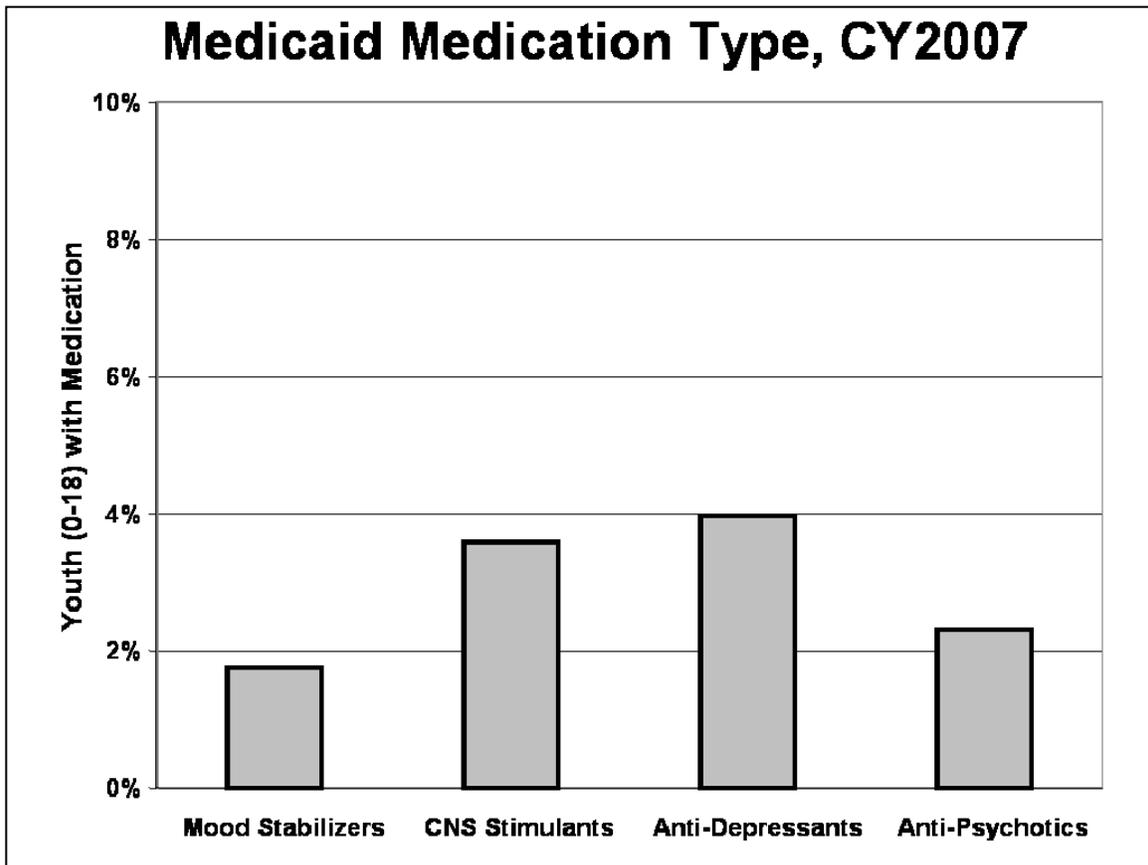
CMHC Youth	Total	Gender		Age	
		Boys	Girls	Age 7-12	13-18
# with Meds	1,804	1,052	752	763	1,041
% Meds & Individual Therapy	61%	58%	66%	62%	60%

DCF Youth	Total	Gender		Age	
		Boys	Girls	Age 7-12	13-18
# with Meds	706	425	281	149	557
% Meds & Individual Therapy	53%	46%	63%	62%	50%

Other Medicaid Youth	Total	Gender		Age	
		Boys	Girls	Age 7-12	13-18
# with Meds	3,845	2,211	1,634	1,717	2,128
% Meds & Individual Therapy	27%	25%	29%	26%	28%

### DRAFT REPORT

Based on analysis of Medicaid data maintained by the Office of VT Health Access, Community Mental Health (CMH) data maintained by the VT Department of Mental Health, and data maintained by the VT Department of Children and Families (DCF). Includes clients with Medicaid paid claims for psychotropic medication and individual psychotherapy. CMH and DCF youth are not mutually exclusive and children may be included in one or both groups. Other youth includes Medicaid clients that are not included in CMH or DCF. Record linkage based on client Medicaid ID.



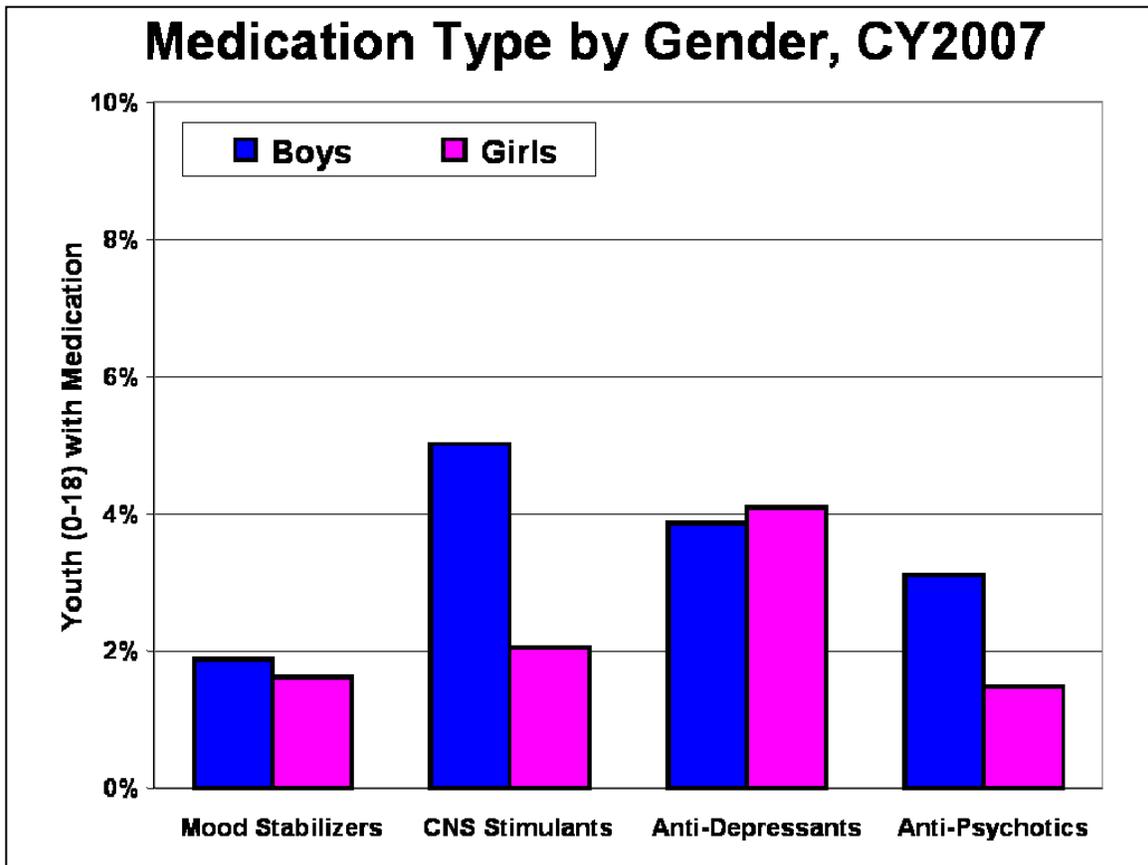
## Medicaid Medication Type, CY2007

	<u>Medicaid Enrolled</u>		<u>Youth with Meds</u>	<u>Therapeutic Class of Psychotropic Medications</u>			
				<u>Mood Stabilizers</u>	<u>CNS Stimulants</u>	<u>Anti-Depressants</u>	<u>Anti-Psychotics</u>
CY2007	71,081	#	6,378	1,245	2,545	2,824	1,647
		%*	9.0%	1.8%	3.6%	4.0%	2.3%

\* Percent of youth Enrolled in Medicaid.

Based on analysis of Vermont Medicaid paid claims for youth aged 18 and under during CY2007.

Analysis conducted by the Vermont Mental Health Performance Indicator Project.



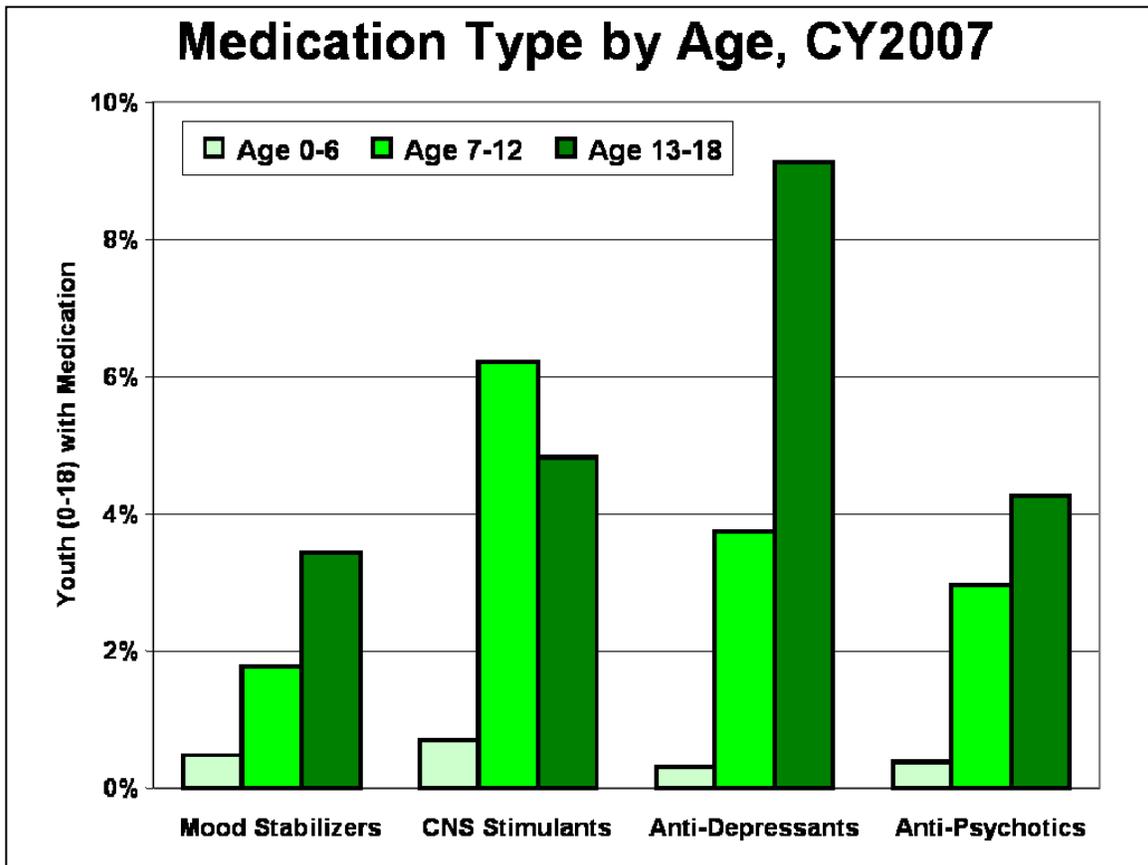
## Medicaid Medication Type by Gender, CY2007

	<u>Medicaid Enrolled</u>		<u>Youth with Meds</u>	<u>Therapeutic Class of Psychotropic Medications</u>			
				<u>Mood Stabilizers</u>	<u>CNS Stimulants</u>	<u>Anti-Depressants</u>	<u>Anti-Psychotics</u>
Boys	36,534	#	3,781	687	1,835	1,412	1,134
		%*	10.2%	1.9%	5.0%	3.9%	3.1%
Girls	34,547	#	2,597	558	710	1,412	513
		%*	7.5%	1.6%	2.1%	4.1%	1.5%

\* Percent of Youth Enrolled in Medicaid.

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## Medicaid Medication Type by Age, CY2007

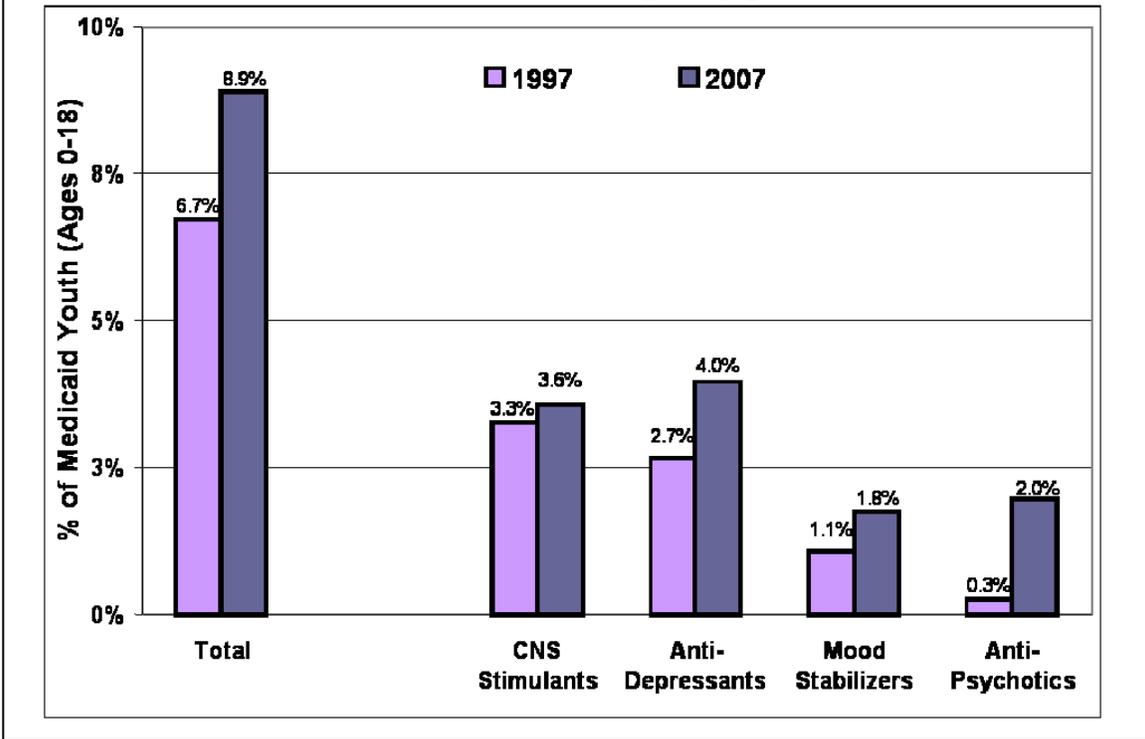
	<u>Medicaid Enrolled</u>		<u>Youth with Meds</u>	<u>Therapeutic Class of Psychotropic Medications</u>			
				<u>Mood Stabilizers</u>	<u>CNS Stimulants</u>	<u>Anti-Depressants</u>	<u>Anti-Psychotics</u>
Age 0-6	28,539	#	557	137	199	90	109
		/*	1.9%	0.5%	0.7%	0.3%	0.4%
Age 7-12	21,256	#	2,393	377	1,320	794	630
		/*	11.2%	1.8%	6.2%	3.7%	3.0%
Age 13-18	21,286	#	3,478	731	1,026	1,940	908
		/*	15.9%	3.4%	4.8%	9.1%	4.3%

\* Percent of Youth Enrolled in Medicaid.

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## Medicaid Enrolled Youth with Meds by Type



## Medicaid Enrolled Youth with Meds by Type

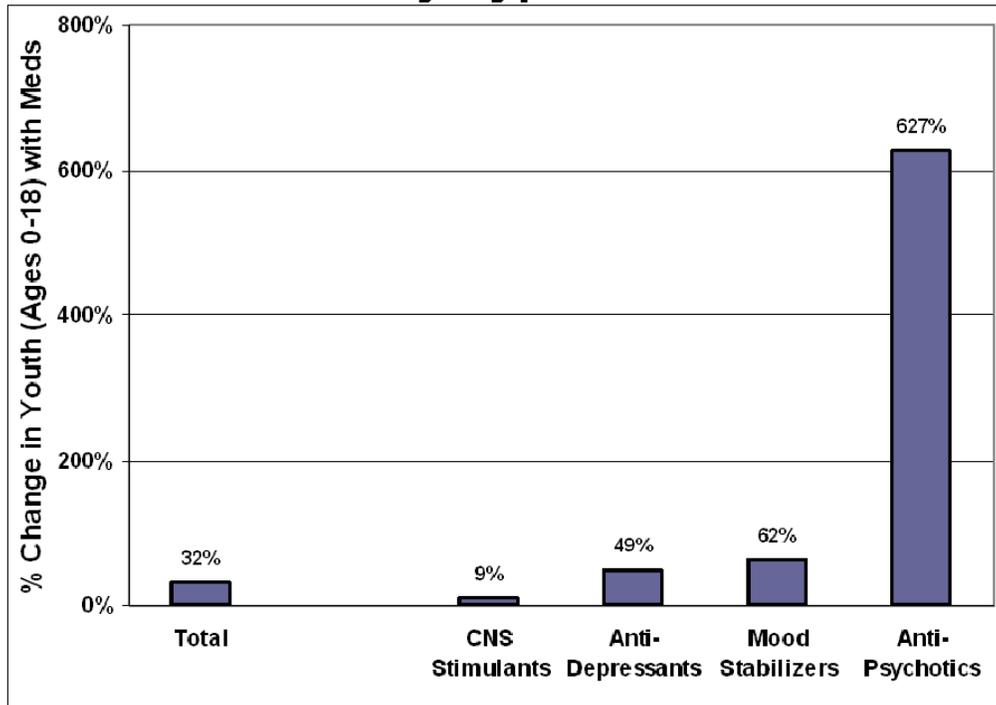
	<u>Medicaid Enrolled</u>		<u>Youth Total</u>	<u>Therapeutic Class of Psychotropic Medications</u>			
				<u>CNS Stimulants</u>	<u>Anti-Depressants</u>	<u>Mood Stabilizers</u>	<u>Anti-Psychotics</u>
CY1997	59,995	#	4,036	1,964	1,598	649	162
		%*	6.7%	3.3%	2.7%	1.1%	0.3%
CY2007	71,081	#	6,321	2,545	2,824	1,245	1,396
		%*	8.9%	3.6%	4.0%	1.8%	2.0%

\* Percent of Youth Enrolled in Medicaid.

Based on analysis of Vermont Medicaid paid claims for youth aged 18 and under during CY2007.

Analysis conducted by the Vermont Mental Health Performance Indicator Project.

## Rate of Change in Use of Medication Over Time by Type: 1997 - 2007



## Rate of Change in Use of Medication Over Time by Type: 1997-2007

	Medicaid Enrolled		Youth Total	Therapeutic Class of Psychotropic Medications			
				CNS Stimulants	Anti- Depressants	Mood Stabilizers	Anti- Psychotics
CY1997	59,995	#	4,036	1,964	1,598	649	162
		%*	6.7%	3.3%	2.7%	1.1%	0.3%
CY2007	71,081	#	6,321	2,545	2,824	1,245	1,396
		%*	8.9%	3.6%	4.0%	1.8%	2.0%
<b>%Change CY97 to CY07</b>			<b>32%</b>	<b>9%</b>	<b>49%</b>	<b>62%</b>	<b>627%</b>

\* Percent of Youth Enrolled in Medicaid.

Based on analysis of Vermont Medicaid paid claims for youth aged 18 and under during CY2007.

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# Next Questions?

Multi-state comparisons?

Cost?

Brand name vs. generic?

Other data sets?

Other questions?

## ONLINE

[http://](http://healthvermont.gov/mh/boards/MedicationsWorkgroup.aspx)

[healthvermont.gov/](http://healthvermont.gov/mh/boards/MedicationsWorkgroup.aspx)

[mh/boards/](http://healthvermont.gov/mh/boards/MedicationsWorkgroup.aspx)

[MedicationsWorkgroup.aspx](http://healthvermont.gov/mh/boards/MedicationsWorkgroup.aspx)



## VT Mental Health Research and Statistics Unit

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