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**Supplemental Table 1. ICD-9 and CCS codes for psoriasis and mental health disorders.**

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Diagnosis	Codes
Psoriasis	696.1
Alopecia areata	704.01
Hidradenitis suppurativa	705.83
Anxiety disorders	CCS 651
Schizophrenia and other psychotic disorders	CCS 659
Personality disorders	CCS 658
Depression and mood disorders	CCS 657
Attention-Deficit/Hyperactivity Disorder, conduct, and disruptive behavior disorders	CCS 652
Disorders usually diagnosed in infancy, childhood or adolescence	CCS 655
Substance-related disorders	CCS 661
Suicide and intentional self-inflicted injury	CCS 662
History of mental health and substance abuse codes	CCS 663
Alcohol-related disorders	CCS 660
Adjustment disorders	CCS 650
Cognitive disorders, including delirium, dementia, amnestic and other	CCS 653
Developmental disorders	CCS 654
Impulse control disorders	CCS 656

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**Supplemental Table 2. Cost of care (COC) and length of stay (LOS) of hospitalization for mental health disorders in children with psoriasis**

Mental health disorder	Diagnosis of psoriasis					
	No		Yes			Excess mean annual cost of hospitalization
	Mean LOS (days)	Mean cost of hospitalization	Mean LOS (days)	Excess mean annual LOS	Mean cost of hospitalization	
	[95% CI]	[95% CI]	[95% CI]		[95% CI]	
Anxiety Disorders	7.32 [6.99-7.65]	\$8,697 [\$8,374-\$9,560]	6.91 [6.30-7.53]	22.75	\$6,423 [\$5,716-\$7,129]	\$213,291
Schizophrenia and other psychotic disorders	10.52 [9.74-11.30]	\$9,063 [\$8,386-\$9,739]	7.58 [2.51-12.65]	4.96	\$10,955 [\$9,258-\$12,652]	\$78,899
Personality disorders	8.11 [7.48-8.74]	\$6,548 [\$6,046-\$7,051]	6.31 [0.12-12.49]	3.33	\$5,491 [\$0-\$13,853]	\$27,983
Depression and mood disorders	6.94 [6.60-7.28]	\$6,521 [\$6,164-\$6,879]	5.59 [5.48-5.70]	6,002	\$10,053 [\$9,831-\$10,275]	\$110,441,358
Attention-Deficit/Hyperactivity Disorder, conduct and disruptive behavior disorders	6.79 [6.30-7.24]	\$7,221 [\$6,828-\$7,615]	6.61 [5.93-7.28]	39.09	\$8,602 [\$7,884-\$9,320]	\$458,030
Disorders usually diagnosed in infancy, childhood, or adolescence	6.57 [6.12-7.04]	\$8,806 [\$8,315-\$9,297]	5.35 [4.93-5.76]	8.46	\$4,562 [\$3,977-\$5,147]	\$72,076
Substance-related disorders	5.61 [5.53-5.69]	\$8,869 [\$8,685-\$9,054]	8.79 [7.63-9.96]	34.16	\$7,611 [\$6,363-\$8,859]	\$301,656
Suicide and intentional self-inflicted injury	6.30 [6.00-6.59]	\$5,035 [\$4,721-\$5,349]	6.70 [6.10-7.31]	13.21	\$5,117 [\$4,670-\$5,473]	\$109,196

History of mental health and substance abuse codes	6.03	\$6,595	7.39	15.57	\$6,119	\$138,010
	[5.69-6.37]	[\$6,278-\$6,912]	[6.86-7.92]		[\$4,138-\$8,111]	
Alcohol-related disorders	6.33	\$7,129	7.67	185.89	\$4,659	\$3,481,776
	[5.71-6.94]	[\$6,729-\$7,528]	[6.37-8.96]		[\$4,610-\$4,708]	
Adjustment disorders	6.64	\$11,425	8.68	7.44	\$12,031	\$109,274
	[6.15-7.13]	[\$9,818-\$13,031]	[4.77-12.59]		[\$3,447-\$20,614]	
Delirium, dementia, amnestic, and other cognitive disorders	8.74	\$19,332	27.31 [NE]	7.19	\$42,873	\$124,195
	[7.54-9.95]	[\$16,323-\$22,342]			[NE]	
Developmental disorders	6.92	\$14,402	6.08	21.19	\$9,960	\$339,385
	[6.54-7.30]	[\$13,478-\$15,326]	[4.35-7.81]		[\$6,149-\$13,770]	
Impulse control disorders	9.33	\$6,139	12.75	9.20	\$9,090	\$65,983
	[8.62-10.04]	[\$5,649-\$6,629]	[NE]		[NE]	
Miscellaneous mental health disorders	7.29	\$10,355	5.38	5.66	\$6,590	\$73,179
	[6.54-8.05]	[\$8,318-\$12,391]	[1.71-9.05]		[\$5,981-\$7,199]	
<b>Any mental health disorder</b>	7.08	\$10,352	6.80	129.59	\$8,358	\$1,610,860
	[6.84-7.32]	[\$9,744-\$10,960]	[6.11-7.49]		[\$6,939-\$9,777]	