APPENDIX A

Designated Health Planning Areas in Wisconsin Under 42 USC 300L [HSS 123.03 (19)]

Health Service Area #1

Columbia, Dane, Dodge, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk counties

Health Service Area #2

Kenosha, Milwaukee, Ozaukee, Racine, Walworth, Washington, Waukesha counties

Health Service Area #3

Calumet, Fond du Lac, Green Lake, Marquette, Outagamie, Waupaca, Waushara, Winnebago counties

Health Service Area #4

Brown, Door, Kewaunee, Manitowoc, Marinette, Menominee, Oconto, Shawano, Sheboygan counties

Health Service Area #5

Barron, Buffalo, Chippewa, Clark, Crawford, Dunn, Eau Claire, Jackson, La Crosse, Monroe, Pepin, Pierce, Polk, Rusk, St. Croix, Trempealeau, Vernon counties

Health Service Area #6

Adams, Florence, Forest, Juneau, Langlade, Lincoln, Marathon, Oneida, Portage, Taylor, Vilas, Wood counties

Health Service Area #7

Ashland, Bayfield, Burnett, Douglas, Iron, Price, Sawyer, Washburn counties

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APPENDIX B TABLE B-1: CT INPATIENT PROCEDURE PROJECTIONS [s. HSS 123.19(3)(b)] HEAD PROCEDURES

HEAD PROCEDURES									
	Primary Discharges*	Primary Discharge Factor	Initial Inpatient Procedures	Follow-up Factor	Total Follow-up Procedures	Secondary Discharges*	Secondary Discharge Factor**	Initial Secondary Procedures	Total Inpatient Procedures
Head Neoplasms		X1.0		X1.10			XF		
Other Head Disorder		х.84		X.14			XF		
Head Total			(A)	34 (3 T A	(B)			(B)	(A+B+C)
				BODY PROCE	TOTTOFFS			L	
				BODI IROCI	DOKES				
Body Neoplasms		x. 45		X1.10			XF		
Other Body Disorder		X.22		X.14			XF		
Body Total			(A)		(B)		경기 (1) (1) 1 (1) (1)	(c)	(A+B+C)
				SPINE PROCI	EDURES				
Spine Disorders or Trauma		X.22		X.14			XF		

Spine Total

^{*}Primary and secondary discharges are calculated by using the ICD-9-CM codes found in the application materials approved by the Department.

^{**}Secondary Discharge Factor $F = .05 \times \frac{A+B}{}$

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TABLE B-2

CT SCAN MIX AND HECT CONVERSION

[s. HSS 123.19(3)(b)]

Scan Location	Scan Mix Factor	Scan Type	HECT Conversion Factor	HECT Count
Total Head	X.10	Head Unenhanced	X1.00	
Total Head	X.05	Head Enhanced	X1.25	
Total Head	X.85	Head Combined	X1.75	
Total Body	X.10	Body Unenhanced	X1.50	-
Total Body	X.65	Body Enhanced	X1.75	
Total Body	X.25	Body Combined	X2.75	
Total Spine	X1.00	All Spine	X3.00	-

Total HECTS

TABLE B-3 CT OUTPATIENT CONVERSION [s. HSS 123.19(3)(b)]

Total Inpatient	Outpatient	Total Inpatient
Procedures	Conversion	Outpatient Scans
Total Inpatient Head Total Inpatient Body Total Inpatient Spine	.55 =.55 =.55 =	

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APPENDIX C TABLE C-1: FORMULA FOR PROJECTING NEED FOR ACUTE CARE BEDS [s. HSS 123.27(3)(c)3.] ACUTE CARE SERVICE AREA XX

Hospital Service	Discharge x Rate/I,000	Length 199X of x Projected Stay Pop. in 1,00	- - -0	199X Projected Patient Days	+ = 365	Projected Average Daily Census	÷ Occupancy Standard	Unad- justed 199X ≖ Bed Need	199X Bed - Need	Approved Beds	199X Bed = Excess or Need
Pediatrics	xx.xx ⁽¹⁾	x.xx ⁽⁷⁾ xx.xxx ⁽¹³⁾		xxxxx.x ⁽¹⁹⁾		xx,x ⁽²⁵⁾	.xx	xx.x ⁽³¹⁾	xx ⁽³⁵⁾	xx ⁽⁴⁰⁾	xx ⁽⁴⁵⁾
Medical/Surgical 15-44 years	xx.xx ⁽²⁾	x.xx ⁽⁸⁾ xxx.xxx ⁽¹⁴⁾	xxxxx.xx ^(20a)								
45-64 years	xxx.xx ⁽⁴⁾	x.xx ⁽⁹⁾ xx.xxx ⁽¹⁵⁾	xxxxx.xx ^(20b)								
65-74 years	xxx.xx ⁽⁴⁾	x.xx ⁽¹⁰⁾ xx.xxx ⁽¹⁶⁾	xxxxx.xx ^(20c)								
75 + years	xxx.xx ⁽⁵⁾	x.xx (11) xx.xxx (17)									
TOTAL				xxxxxx.x ^(20e)		xxx.x ⁽²⁶⁾		xxx.x ⁽³²⁾			
Obstetrics	xx.xx ⁽⁶⁾	x.xx ⁽¹²⁾ xx.xxx ⁽¹⁸⁾		xxxxx.x ⁽²¹⁾		xx.x ⁽²⁷⁾	.xx	xx.x ⁽³³⁾	xx ⁽³⁷⁾	xx ⁽⁴²⁾	**(47)
icn/ccn		of nonobstetric pati	ent days (22)								
				PED xxx.x (23) 1/S xxxx.x (24)		x.x ⁽²⁸⁾ xx.x ⁽²⁹⁾	.xx				
				•		xx.x ⁽³⁰⁾	.xx	xx.x ⁽³⁴⁾	_xx ⁽³⁸⁾	xx ⁽⁴³⁾	_x ⁽⁴⁸⁾
									xxx ⁽³⁹⁾	xxx ⁽⁴⁴⁾	xxx ⁽⁴⁹⁾

TABLE C-1: NOTES

- (1) Discharges from ACSA hospitals for Wisconsin residents under 15 years of age excluding newborns and discharges for diagnosis in (6)
 Under 15 market share population for ACSA excluding in-migration adjustment
- (2) Discharges from ACSA hospitals for Wisconsin residents 15-44 years of age excluding discharges for diagnoses in (6) 15-44 market share population for ACSA excluding in-migration adjustment
- (3) Discharges from ACSA hospitals for Wisconsin residents 45-64 years of age excluding discharges for diagnoses in (6)
 45-64 market share population for ACSA excluding in-migration adjustment
- (4) Discharges from ACSA hospitals for Wisconsin residents 65-74 years of age excluding discharges for diagnoses in (6) 65-74 market share population for ACSA excluding in-migration adjustment
- (5) Discharges from ACSA hospitals for Wisconsin residents 75 years of age and over excluding discharges for diagnoses in (6) 75 years of age and over market share population for ACSA excluding in-migration adjustment
- (6) Discharges from ACSA hospitals for Wis. residents with the following principal ICDA discharge diagnoses 630.0, 633.0-633.2, 633.8, 633.9, 640.0-646.9, 648.0-676.0

 One-half the population 15-44 market share population for ACSA excluding in-migration adjustment

OR, IF SMALLER,

- (2a) to (6a) same as (la) for age groupings in (2) to (6) above.

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- (7) Patient days from ACSA hospitals for Wis. residents under 15 years of age, excluding newborns and discharges for diagnoses in (6) Discharges from ACSA hospitals for Wis. residents under 15 years of age, excluding newborns and discharges for diagnoses in (6)
- (8) Patient days from ACSA hospitals for Wisconsin residents 15-44 years of age, excluding discharges for diagnoses in (6) Discharges from ACSA hospitals for Wisconsin residents 15-44 years of age, excluding discharges for diagnoses in (6)
- (9) Patient days from ACSA hospitals for Wisconsin residents 45-64 years of age excluding discharges for diagnoses in (6) Discharges from ACSA hospitals for Wisconsin residents 45-64 years of age excluding discharges for diagnoses in (6)
- (10) Patient days from ACSA hospitals for Wisconsin residents 65-74 years of age excluding discharges for diagnoses in (6) Discharges from ACSA hospitals for Wisconsin residents 65-74 years of age excluding discharges for diagnoses in (6)
- (11) Patient days from ACSA hospitals for Wisconsin residents 75 and over excluding discharges for diagnoses in (6) Discharges from ACSA hospitals for Wisconsin residents 75 and over excluding discharges for diagnoses in (6)
- (12) Patient days from ACSA hospitals for Wisconsin residents with the principal discharge diagnoses in (6) Discharges from ACSA hospitals for Wisconsin residents with the principal discharge diagnoses in (6)

OR, IF SMALLER,

(7a) Patient day; from all hospitals for Wisconsin residents under 15 years of age, excluding newborns + Change in pediatric lengths of + One standard and discharges for diagnoses in (6) stay projected over the next 5 deviation Discharges from all hospitals for Wisconsin residents under 15 years of age, excluding newborns years using a linear regression using a method for the most recent 7 normal years of national discharge distribution data.



(8b) to (12b) Same as (7a) for age groupings in (8) to (12) above.

Discharges in categories (1-12) and (1a-12a) exclude principal ICDA discharge diagnosis of 290 to 316 (except 303 and 304 and 305) for hospitals with an impatient psychiatric service and 303 and 304 for hospitals with a chemical dependency service.

Calculation of ACSA population:

R x Zip Code Pop. = ACSA in-state population

Admissions from zip code to ACSA hospitals

Admissions from a zip code area to any Wisconsin Hospital

Zip Code population = MCD-Zip conversion factor for each MCD-Zip Code fragment (proportion of a given MCD served by a given zip code area times the MCD population estimate)

The in-state ACSA populations are adjusted to incorporate out-of-state population increase due to care provided residents of other states:

out-of-state = out-of-state x in-state
discharges population
to the ACSA
in-state
discharges
to the ACSA

Age cohort distribution are based on a determination of which counties had at least 50% of their geographic area within either primary or secondary service area of the AGSA. The proportional representation of each cohort as projected in the county or counties is applied to the total AGSA population.

- (13)-(17) 1990 population projection based on calculation of ACSA in-state population + in-migration adjustment x county age cohort distribution
- (18) One half the population 15-44 to represent the population of childbearing age
- (19) Projected Patient Days for patients under 15 years of age
- (20e) Sum of Projected Patient Days for medical/surgical patients 15 years of age and over = (20a) + (20b) + (20c) + (20d)
- (21) Projected Patient days for obstetric patients
- (22) ICU/CCU patient days as a percentage of total non-obstetric patient days for the ACSA (data from the Wisconsin Annual Survey of Hospitals)
- (23) (22) x (19)
- (24) (22) x (20e) (25) (19) + 365 (# of days in year)
- (26) (20e) + 365
- (27) (21) + 365
- (28) (23) + 365 (29) (24) + 365
- (29) (24) - 365 (30) (23) + (24)
- (31) (25) + Occupancy Standard in Appendix D for the service bed

for the service bed complement in ACSA. For services of less than 10 beds, the medical/surgical

occupancy standard applies.

- (32) (26) + Occupancy Standard in
 Appendix D for the service
 bed complement in ACSA.
- (33) (27) + Occupancy Standard in
 Appendix D for the service
 bed complement in ACSA
- (34) (30) + Occupancy Standard in
 Appendix D for the service
 bed complement in ACSA.

 If a separate pediatric
 intensive care unit
 exists in the service
 area, bed need is
 calculated for 28 and
 29 using the occupancy
 standard for the entire
- ICU/CCU bed complement
 (35) (31) rounded to the nearest whole
- number
 (36) (32) minus (34) rounded to nearest
 whole number
- (37) (33) rounded to the nearest whole
- (38) (34) rounded to the nearest whole number
- (39) (35) + (36) + (37) + (38)
- (40)-(43) Service bed complement by ACSA from the Annual Survey of Hospitals adjusted for beds closed, deactivated or decertified under s. 123.30
- (44) (40) + (41) + (42) + (43)
- (45) (40) (35)
- (46) (41) (36)
- (47) (42) ~ (37)
- (48) (43) (38)
- (49) (44) (39)

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TABLE C-2: FORMULA FOR PROJECTING NEED FOR SHORT-TERM INPATIENT PSYCHIATRIC BEDS [s. HSS 123.27(4)(b)2.] SERVICE ARRA XX

199X 199X				Occupancy					
Use Rate/ x Length : 1,000 of stay		Projected Patient Days	365	= 199X Projected Average Daily Census	Standard (7)	 Unadjusted 199X Bed Need 	199X - Bed Need	Approved = Beds	Bed Excess or Need
x.x ⁽¹⁾ xx.x ⁽²⁾	xxx.xxx ⁽³⁾ =	ххххх ⁽⁴⁾		xxx.xx ⁽⁵⁾	xx	xx.x ⁽⁶⁾	** ⁽⁷⁾	жж ⁽⁸⁾	*xx ⁽⁹⁾

(1) Use rate = Total number of admissions to short-term inpatient psychiatric services in the service area*

Current service area population

OR, IF SMALLER,

- Total number of admissions to short-term inpatient psychiatric services in Wisconsin*
 Current Wisconsin population
- (2) Length of stay = Total patient days in short-term inpatient psychiatric services in the service area*

 Total number of admissions to short-term inpatient psychiatric services in the service area*

OR, IF SMALLER,

- = Total patient days in short-term inpatient psychiatric services in Wisconsin*

 Total number of admissions to short-term inpatient psychiatric services in Wisconsin*
- (3) Projected population in 199X for the service area, based upon information provided by the University of Wisconsin Applied Population Laboratory and the State Department of Administration.
- (4) (1) \times (2) \times (3)
- (5) (4) + 365 (number of days in the year)
- (6) (5) + Occupancy standard in Appendix D for the bed complement in the service area.
- (7) (6) rounded to the nearest whole number
- (8) Total number of approved short-term inpatient psychiatric beds in the service area.
- (9) (7) (8)

^{*}Information on patient days and admissions from the Annual Survey of Hospitals.