

Supplementary Table 3a: Pre-Match Comparison of Hospital Outcomes in Patients Admitted with Autoimmune Hepatitis; Male versus Female

Hospital Outcomes	Female		Male		p-value	Univariate Analysis	
	n = 17178	78.85 %	n = 4609	21.15 %		OR	95% CI
Mortality (%)	642	3.74 %	201	4.36 %	0.06	0.85	(0.72 - 1.00)
Length of Stay (days)	5.67	± 6.16 days	5.90	± 7.23 days	0.73		
Hospital Charges (\$)	56984	± 95225 \$	62658	± 117705 \$	0.16		
Disposition at Discharge					< 0.001	***	
Routine (%)	10569	61.50 %	3047	66.10 %			
Short-term Hospital (%)	599	3.49 %	203	4.40 %			
SNF or Other Facility (%)	2541	14.80 %	487	10.60 %			
Home Health Care (%)	2704	15.70 %	615	13.30 %			
Left AMA (%) †	120	0.70 %	55	1.19 %			
Died (%)	642	3.74 %	201	4.36 %			
Unknown (%)	3	0.02 %	1	0.02 %			
Liver Complications							
Acute Liver Failure (%)	736	4.28 %	242	5.25 %	0.006	**	0.81 (0.70 - 0.94)
Cirrhosis (%)	6254	36.40 %	1919	41.60 %	< 0.001	***	0.80 (0.75 - 0.86)
Ascites (%) §	2223	12.90 %	799	17.30 %	< 0.001	***	0.71 (0.65 - 0.77)
Cirrhosis-related (%)	2148	12.50 %	777	16.90 %	< 0.001	***	0.70 (0.64 - 0.77)
ALF-related (%)	216	1.26 %	82	1.78 %	0.008	**	0.70 (0.54 - 0.91)
Varices (%) §	1583	9.22 %	576	12.50 %	< 0.001	***	0.71 (0.64 - 0.79)
Cirrhosis-related (%)	1562	9.09 %	568	12.30 %	< 0.001	***	0.71 (0.64 - 0.79)
ALF-related (%)	76	0.44 %	32	0.69 %	0.04	*	0.64 (0.42 - 0.96)
Variceal Bleeding (%) §	320	1.86 %	123	2.67 %	< 0.001	***	0.69 (0.56 - 0.85)
Cirrhosis-related (%)	320	1.86 %	122	2.65 %	< 0.001	***	0.70 (0.57 - 0.86)
ALF-related (%)	5	0.03 %	6	0.13 %	0.02	*	0.22 (0.07 - 0.73)
Spontaneous Bacterial Peritonitis (%) §	254	1.48 %	131	2.84 %	< 0.001	***	0.51 (0.41 - 0.64)
Cirrhosis-related (%)	238	1.39 %	128	2.78 %	< 0.001	***	0.49 (0.40 - 0.61)
ALF-related (%)	30	0.18 %	17	0.37 %	0.02	*	0.47 (0.26 - 0.86)
Hepatorenal Syndrome (%) §	277	1.61 %	110	2.39 %	< 0.001	***	0.67 (0.54 - 0.84)
Cirrhosis-related (%)	239	1.39 %	97	2.10 %	< 0.001	***	0.66 (0.52 - 0.83)
ALF-related (%)	77	0.45 %	28	0.61 %	0.21		0.74 (0.48 - 1.14)
Encephalopathy (%) §	1589	9.25 %	527	11.40 %	< 0.001	***	0.79 (0.71 - 0.88)
Cirrhosis-related (%)	1522	8.86 %	506	11.00 %	< 0.001	***	0.79 (0.71 - 0.88)
ALF-related (%)	141	0.82 %	44	0.96 %	0.43		0.86 (0.61 - 1.21)

* p < 0.05, ** p < 0.01, *** p < 0.001

† Left AMA: Left against medical advice

§ These variables include both cirrhosis and ALF-related events counting overlapping incidences

Supplementary Table 3b: Pre-Match Comparison of Hospital Outcomes in Patients Admitted with Autoimmune Hepatitis; Stratified by Race

Hospital Outcomes	Black versus White						Hispanic versus White						
	Black		White		p-value	Univariate Analysis OR 95% CI	Hispanic		White		p-value	Univariate Analysis OR 95% CI	
	n = 3688	19.81 %	n = 14926	80.19 %			n = 3173	17.53 %	n = 14926	82.47 %			
Mortality (%)	142	3.85 %	559	3.75 %	0.80	1.03 (0.85 - 1.24)	142	4.48 %	559	3.75 %	0.06	1.20 (1.00 - 1.45)	
Length of Stay (days)	6.40	± 7.41 days	5.48	± 5.89 days	< 0.001	***	6.00	± 7.35 days	5.48	± 5.89 days	0.005	**	
Hospital Charges (\$)	62220	± 111728 \$	54201	± 91308 \$	< 0.001	***	72233	± 123440 \$	54201	± 91308 \$	< 0.001	***	
Disposition at Discharge					< 0.001	***					< 0.001	***	
Routine (%)	2456	66.60 %	8950	60.00 %			2210	69.70 %	8950	60.00 %			
Short-term Hospital (%)	142	3.85 %	572	3.83 %			88	2.77 %	572	3.83 %			
SNF or other facility (%)	395	10.70 %	2359	15.80 %			274	8.64 %	2359	15.80 %			
Home Health Care (%)	514	13.90 %	2375	15.90 %			430	13.60 %	2375	15.90 %			
Left AMA (%) ‡	39	1.06 %	108	0.72 %			28	0.88 %	108	0.72 %			
Died (%)	142	3.85 %	559	3.75 %			142	4.48 %	559	3.75 %			
Unknown (%)	0	0.00 %	3	0.02 %			1	0.03 %	3	0.02 %			
Liver Complications													
Acute Liver Failure (%)	245	6.64 %	589	3.95 %	< 0.001	***	144	4.54 %	589	3.95 %	0.14	1.16 (0.96 - 1.39)	
Cirrhosis (%)	1338	36.30 %	5266	35.30 %	0.26	1.04 (0.97 - 1.13)	1569	49.40 %	5266	35.30 %	< 0.001	***	1.79 (1.66 - 1.94)
Ascites (%) §	470	12.70 %	1948	13.10 %	0.64	0.97 (0.87 - 1.08)	604	19.00 %	1948	13.10 %	< 0.001	***	1.57 (1.42 - 1.73)
Cirrhosis-related (%)	444	12.00 %	1889	12.70 %	0.32	0.94 (0.85 - 1.05)	592	18.70 %	1889	12.70 %	< 0.001	***	1.58 (1.43 - 1.75)
ALF-related (%)	61	1.65 %	185	1.24 %	0.06	1.34 (1.00 - 1.79)	52	1.64 %	185	1.24 %	0.09	1.33 (0.97 - 1.81)	
Varices (%) §	348	9.44 %	1348	9.03 %	0.46	1.05 (0.93 - 1.19)	463	14.60 %	1348	9.03 %	< 0.001	***	1.72 (1.54 - 1.93)
Cirrhosis-related (%)	338	9.16 %	1332	8.92 %	0.67	1.03 (0.91 - 1.17)	460	14.50 %	1332	8.92 %	< 0.001	***	1.73 (1.54 - 1.94)
ALF-related (%)	28	0.76 %	64	0.43 %	0.02	* 1.78 (1.14 - 2.77)	16	0.50 %	64	0.43 %	0.66	1.18 (0.68 - 2.04)	
Variceal Bleeding (%) §	57	1.55 %	268	1.80 %	0.33	0.86 (0.64 - 1.15)	118	3.72 %	268	1.80 %	< 0.001	***	2.11 (1.70 - 2.63)
Cirrhosis-related (%)	57	1.55 %	267	1.79 %	0.35	0.86 (0.65 - 1.15)	118	3.72 %	267	1.79 %	< 0.001	***	2.12 (1.70 - 2.64)
ALF-related (%)	5	0.14 %	5	0.03 %	0.05	* 4.05 (1.17 - 14.00)	1	0.03 %	5	0.03 %	1.00 †	0.94 (0.02 - 8.41)	
Spontaneous Bacterial Peritonitis (%) §	67	1.82 %	229	1.53 %	0.25	1.19 (0.90 - 1.56)	89	2.80 %	229	1.53 %	< 0.001	***	1.85 (1.45 - 2.37)
Cirrhosis-related (%)	61	1.65 %	218	1.46 %	0.43	1.13 (0.85 - 1.51)	87	2.74 %	218	1.46 %	< 0.001	***	1.90 (1.48 - 2.45)
ALF-related (%)	10	0.27 %	30	0.20 %	0.53	1.35 (0.66 - 2.76)	7	0.22 %	30	0.20 %	1.00	1.10 (0.48 - 2.50)	
Hepatorenal Syndrome (%) §	75	2.03 %	232	1.55 %	0.05	* 1.31 (1.01 - 1.71)	80	2.52 %	232	1.55 %	< 0.001	***	1.64 (1.27 - 2.12)
Cirrhosis-related (%)	57	1.55 %	202	1.35 %	0.42	1.14 (0.85 - 1.54)	77	2.43 %	202	1.35 %	< 0.001	***	1.81 (1.39 - 2.36)
ALF-related (%)	33	0.90 %	60	0.40 %	< 0.001	***	12	0.38 %	60	0.40 %	0.97	0.94 (0.51 - 1.75)	
Encephalopathy (%) §	302	8.19 %	1359	9.10 %	0.09	0.89 (0.78 - 1.01)	455	14.30 %	1359	9.10 %	< 0.001	***	1.67 (1.49 - 1.87)
Cirrhosis-related (%)	273	7.40 %	1311	8.78 %	0.008	** 0.83 (0.72 - 0.95)	444	14.00 %	1311	8.78 %	< 0.001	***	1.69 (1.51 - 1.90)
ALF-related (%)	48	1.30 %	108	0.72 %	< 0.001	***	29	0.91 %	108	0.72 %	0.31	1.27 (0.84 - 1.91)	

* p < 0.05, ** p < 0.01, *** p < 0.001

† Fisher's Test

‡ Left AMA: Left against medical advice

§ These variables include both cirrhosis and ALF-related events counting overlapping incidences