

SUPPLEMENTAL MATERIAL

Ethnic Differences in 90-day Post-Stroke Medication Adherence

Table I. Characteristics of Included compared to Excluded Patients, by Ethnicity

	NHW					MA				
	Excluded		Included		P	Excluded		Included		P
	N or Median	% or (Q1,Q3)	N or Median	% or (Q1,Q3)		N or Median	% or (Q1,Q3)	N or Median	% or (Q1,Q3)	
Female	264	49.9	207	49.1	0.79	315	49.0	353	51.0	0.46
Total Insured	482	91.1	384	91.0	0.97	566	88.0	616	89.0	0.57
Atrial Fibrillation	129	24.4	69	16.4	<0.01	69	10.7	71	10.3	0.75
High Cholesterol	227	43.0	220	52.1	<0.01	302	47.0	357	51.6	0.11
Diabetes	179	33.8	130	30.8	0.30	374	58.2	401	58.0	0.91
Hypertension	417	78.8	310	73.5	<0.05	535	83.2	593	85.7	0.21
History of Stroke or TIA	148	28.0	108	25.6	0.40	174	27.1	189	27.3	0.95
Current/Former Smoker	232	43.9	194	46.0	0.53	215	33.4	255	36.9	0.22
Excessive Alcohol use	45	8.5	36	8.5	0.99	51	7.9	48	6.9	0.47
Treated with tPA	57	10.8	61	14.5	0.09	62	9.6	75	10.8	0.48
Age	73	(61,83)	68	(60,79)	<0.001	68	(58,80)	65	(57, 75)	<0.001
NIHSS	4	(1,9)	3	(1,6)	<0.01	4	(1,8)	3	(1,7)	<0.05
Comorbidity Index	3	(2,5)	3	(2,5)	<0.05	3	(2,5)	3	(2,5)	0.88

TIA=transient ischemic attack, NIHSS=National Institute of Health Stroke Scale, MA=Mexican American, NHW=Non-Hispanic White

Table II. Association of nonadherence and number of drug classes

Number of Medication Classes	N total	N Non- adherent	OR	95% CI	
1 (ref)	99	27			
2 (v 1)	288	79	1.01	0.6	1.68
3 (v 1)	578	135	0.81	0.5	1.32
4 (v 1)	137	32	0.81	0.5	1.47
5 (v 1)	12	2	0.53	0.11	2.59

Modeled using logistic regression

Table III. Association of nonadherence and number of medications

Number of medications	N	N Non-adherent	OR	95% CI	
1 (ref)	66	20			
2 (vs 1)	148	43	0.94	0.5	1.78
3 (vs 1)	273	71	0.81	0.45	1.46
4 (vs 1)	262	55	0.61	0.33	1.12
≥5 (vs 1)	365	86	0.71	0.4	1.26
Number of Medications (Continuous)	1114	275	0.93	0.85	1.01

Modeled using logistic regression

Table IV. Sensitivity Analysis for Number of Medications

	Antiplatelets (n=914)	Anticoagulants (n=173)	Antihypertensives (n=917)	Statins (n=819)	Antidepressants (n=177)
	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)
MA(v NHW)	0.93 (0.64, 1.34)	1.04 (0.39, 2.78)	1.00 (0.67, 1.49)	1.15 (0.76, 1.74)	1.19 (0.44, 3.22)
Age	0.98 (0.96, 1.00)	0.98 (0.94, 1.02)	0.97 (0.95, 0.99)	0.98 (0.96, 1.00)	0.97 (0.93, 1.02)
Female (v Male)	0.84 (0.60, 1.16)	1.06 (0.44, 2.53)	0.94 (0.66, 1.33)	1.07 (0.74, 1.54)	1.01 (0.39, 2.62)
NIHSS	0.99 (0.95, 1.03)	0.93 (0.85, 1.02)	0.98 (0.94, 1.02)	0.97 (0.93, 1.01)	1.00 (0.92, 1.08)
Private and Medicare (v non and Medicaid)	0.65 (0.41, 1.04)	0.97 (0.20, 4.68)	0.75 (0.45, 1.23)	0.60 (0.36, 1.00)	0.26 (0.08, 0.84)
HS education	1.00 (0.60, 1.69)	1.54 (0.35, 6.77)	1.18 (0.69, 2.03)	1.28 (0.73, 2.27)	1.49 (0.27, 8.16)
Vocational/ some college	0.96 (0.53, 1.71)	1.38 (0.27, 6.94)	0.74 (0.39, 1.40)	0.78 (0.40, 1.53)	1.01 (0.15, 6.74)
College or more	0.72 (0.36, 1.43)	1.48 (0.23, 9.69)	0.76 (0.36, 1.61)	0.81 (0.37, 1.78)	0.74 (0.08, 7.12)
Number of drugs (continuous)	0.84 (0.76, 0.94)	1.19 (0.92, 1.53)	0.90 (0.79, 1.02)	0.97 (0.86, 1.10)	1.02 (0.76, 1.37)

MA=Mexican American, NHW=Non-Hispanic White, NIHSS=National Institute of Health Stroke Scale, HS= High school

No high school is the reference category for education

Adherence defined as never missing a dose

Estimates obtained from a logistic regression

Table V. Prevalence of Non-adherence by Medication Class – Alternate Adherence Definition

	Overall			MA			NHW		
	N	Missed	%	N	Missed	%	N	Missed	%
Antiplatelets	914	104	11.4	574	67	11.7	340	37	10.9
Anticoagulants	173	9	5.2	82	4	4.9	91	5	5.5
Antihypertensives	917	69	7.5	585	50	8.6	332	19	5.7
Statins	819	63	7.7	504	45	9.1	315	17	5.4
Antidepressants	177	14	7.9	105	11	10.5	72	3	4.2

MA=Mexican Americans, NHW=Non-Hispanic Whites, Missed=non-adherent. Adherence defined as never or rarely missing a dose.