

Manova Fit**Response Specification**

To construct the linear combinations across responses,

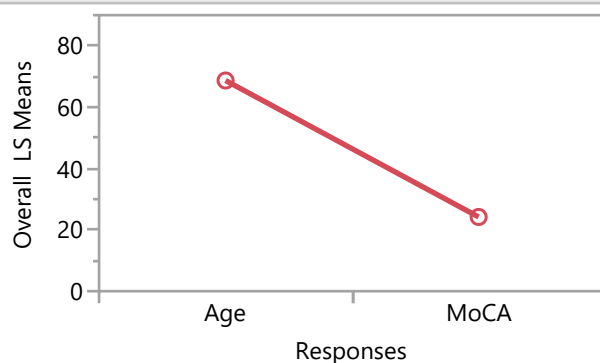
☐ Univariate Tests Also☐ Test Each Column Separately Also

N 55

DFE 47

Parameter Estimates

	Age	MoCA
Intercept	73,8121049	22,6716301
α -syn	-0,0660224	-0,0893876
DD	-0,1164904	-0,102787
$(\alpha\text{-syn}-15,7451)*(DD-5,00909)$	-0,1164751	-0,0054
UPDRS III	-0,1066593	0,10331944
$(\alpha\text{-syn}-15,7451)*(UPDRS\ III-34,5273)$	-0,0134549	0,00764075
$(DD-5,00909)*(UPDRS\ III-34,5273)$	0,03262148	-0,043168
$(\alpha\text{-syn}-15,7451)*(DD-5,00909)*(UPDRS\ III-34,5273)$	-0,0011856	-0,0010821

Least Squares Means**Overall Means**

Overall Means

Age	MoCA
68,6909091	24,2

Manova Fit**Between Subjects**

Sum

All Between

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	0,199386	1,3387	7	47	0,2537

Intercept

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	7,0510852	331,4010	1	47	<,0001*

 α -syn

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	0,0197295	0,9273	1	47	0,3405

DD

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	0,0076471	0,3594	1	47	0,5517

 α -syn*DD

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	0,1024252	4,8140	1	47	0,0332*

UPDRS III

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	1,2568e-5	0,0006	1	47	0,9807

 α -syn*UPDRS III

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	0,002392	0,1124	1	47	0,7389

DD*UPDRS III

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	0,0019659	0,0924	1	47	0,7625

 α -syn*DD*UPDRS III

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	0,0036738	0,1727	1	47	0,6796

Within Subjects

Contrast

All Within Interactions

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	0,1755566	1,1787	7	47	0,3331

Canonical	
Eigenvalue	Corr
0,17555661	0,38644422

Eigvec

0,01191841

Manova Fit**Within Subjects****Age and MoCA_dependent variables**

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	1,1640032	54,7081	1	47	<,0001*

Canonical	
Eigenvalue	Corr
1,16400316	0,73341221

Eigvec

0,01191841

Age and MoCA_dependent variables* α -syn

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	0,000262	0,0123	1	47	0,9121

Canonical	
Eigenvalue	Corr
0,00026204	0,0161856

Eigvec

0,01191841

Age and MoCA_dependent variables*DD

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	1,7548e-5	0,0008	1	47	0,9772

Canonical	
Eigenvalue	Corr
1,75485e-5	0,00418905

Eigvec

0,01191841

Age and MoCA_dependent variables* α -syn*DD

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	0,0499904	2,3495	1	47	0,1320

Canonical	
Eigenvalue	Corr
0,04999038	0,2181979

Eigvec

0,01191841

Age and MoCA_dependent variables*UPDRS III

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	0,029191	1,3720	1	47	0,2474

Canonical	
Eigenvalue	Corr
0,02919096	0,16841324

Eigvec

0,01191841

Manova Fit**Within Subjects****Age and MoCA_dependent variables* α -syn*UPDRS III**

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	0,0185031	0,8696	1	47	0,3558

Canonical	
Eigenvalue	Corr
0,01850309	0,13478481

Eigvec

0,01191841

Age and MoCA_dependent variables*DD*UPDRS III

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	0,0596541	2,8037	1	47	0,1007

Canonical	
Eigenvalue	Corr
0,05965412	0,23726744

Eigvec

0,01191841

Age and MoCA_dependent variables* α -syn*DD*UPDRS III

Test	Value	Exact F	NumDF	DenDF	Prob>F
F Test	4,5016e-6	0,0002	1	47	0,9885

Canonical	
Eigenvalue	Corr
4,50161e-6	0,0021217

Eigvec

0,01191841