

## S6: Model specifications for mediator and outcome models

Mediator and outcome model specifications were built using the general strategy for model selection by Collet, and tested for model adequacy using the Hosmer-Lemeshow goodness-of-fit statistic.

### Mediator model

Stata command:

```
logit Med rt c.age rt#c.age erm focal, nolog vsquish
```

Logistic regression				Number of obs	=	217
				LR chi2(5)	=	90.85
				Prob > chi2	=	0.0000
Log likelihood = -90.274014				Pseudo R2	=	0.3347
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	Med	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
-----+-----						
	rt	2.506	0.523	4.79	0.000	1.481 3.532
	age	0.041	0.050	0.82	0.413	-0.057 0.138
	rt#c.age					
Ocriplasmin		-0.170	0.056	-3.03	0.002	-0.280 -0.060
erm		2.166	0.648	3.34	0.001	0.895 3.437
focal		1.310	0.791	1.66	0.098	-0.241 2.861
cons		-5.793	1.036	-5.59	0.000	-7.824 -3.762

Stata command:

```
estat gof, group(15) all table
```

### Logistic model for Med, goodness-of-fit test

(Table collapsed on quantiles of estimated probabilities)

Group	Prob	Obs_1	Exp_1	Obs_0	Exp_0	Total
1	0.0091	0	0.1	15	14.9	15
2	0.0251	1	0.2	13	13.8	14
3	0.0608	1	0.6	14	14.4	15
4	0.0800	0	1.3	18	16.7	18
5	0.0894	2	1.0	9	10.0	11
6	0.1240	4	1.8	12	14.2	16
7	0.1716	2	2.1	12	11.9	14
8	0.2283	1	2.9	13	11.1	14
9	0.3316	6	5.7	13	13.3	19
10	0.4224	2	3.5	7	5.5	9
11	0.5784	6	7.7	9	7.3	15
12	0.6729	12	12.2	7	6.8	19
13	0.7271	9	8.5	3	3.5	12
14	0.7970	13	12.4	3	3.6	16
15	0.9488	10	8.9	0	1.1	10

number of observations = 217  
number of groups = 15

Outcome model VF-I

```
logit VF-I Med age erm mh rt sex, nolog vsquish
```

VF-I	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
Med	0.729	0.402	1.81	0.070	-0.060 1.517
age	-0.045	0.017	-2.62	0.009	-0.079 -0.011
erm	0.875	0.421	2.08	0.037	0.051 1.700
mh	-1.926	0.393	-4.90	0.000	-2.697 -1.155
rt	1.408	0.409	3.44	0.001	0.607 2.209
sex	-0.710	0.372	-1.91	0.056	-1.439 0.020
_cons	-1.341	0.496	-2.70	0.007	-2.312 -0.369

```
estat gof, group(10) all table
```

Group	Prob	Obs_1	Exp_1	Obs_0	Exp_0	Total
1	0.0746	0	1.1	22	20.9	22
2	0.1545	4	2.5	18	19.5	22
3	0.2172	5	4.3	18	18.7	23
4	0.2866	4	5.1	16	14.9	20
5	0.3314	11	6.9	11	15.1	22
6	0.4245	5	8.6	18	14.4	23
7	0.5123	9	9.5	11	10.5	20
8	0.6215	14	13.0	9	10.0	23
9	0.7671	14	16.2	9	6.8	23
10	0.9167	17	15.8	2	3.2	19

2

Outcome model VA-I
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Stata command:

logit VA-I Med age c.age#c.age mh rt sex Med#mh, nolog vsquish

Logistic regression	Number of obs	=	217
	LR chi2(7)	=	59.84
	Prob > chi2	=	0.0000
Log likelihood = -99.904232	Pseudo R2	=	0.2305

VA-I	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Med	1.749	0.502	3.48	0.000	0.765	2.733
age	-0.085	0.022	-3.86	0.000	-0.128	-0.042
c.age#c.age	-0.002	0.001	-1.62	0.105	-0.005	0.000
mh	-2.646	0.621	-4.26	0.000	-3.862	-1.430
rt	0.915	0.440	2.08	0.038	0.052	1.778
sex	-0.810	0.409	-1.98	0.048	-1.611	-0.008
Med#mh						
No#FTMH present	1.930	0.785	2.46	0.014	0.391	3.470
Yes#FTMH absent	0.000	(omitted)				
Yes#FTMH present	0.000	(omitted)				
_cons	-1.017	0.476	-2.14	0.033	-1.949	-0.084

Stata command:

estat gof, group(10) all table

Logistic model for VA-I, goodness-of-fit test

(Table collapsed on quantiles of estimated probabilities)

Group	Prob	Obs_1	Exp_1	Obs_0	Exp_0	Total
1	0.0729	1	1.0	21	21.0	22
2	0.0993	1	1.9	21	20.1	22
3	0.1340	3	2.7	19	19.3	22
4	0.1721	3	3.5	19	18.5	22
5	0.2011	4	3.9	17	17.1	21
6	0.2342	6	4.8	16	17.2	22
7	0.2623	6	5.3	15	15.7	21
8	0.4579	9	8.1	13	13.9	22
9	0.7705	14	15.0	10	9.0	24
10	0.9185	15	15.8	4	3.2	19

number of observations =	217
number of groups =	10
Hosmer-Lemeshow chi2(8) =	1.72
Prob > chi2 =	0.9884

Outcome model VFQ-I
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Stata command:

logit VFQ-I Med c.va c.va#c.va vfq c.vfq#c.vfq mh, nolog vsquish

Logistic regression	Number of obs	=	217
	LR chi2(6)	=	58.90
	Prob > chi2	=	0.0000
Log likelihood = -92.299603	Pseudo R2	=	0.2419

VFQ-I	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Med	1.291	0.406	3.18	0.001	0.495	2.088
va	0.057	0.028	2.08	0.038	0.003	0.112
c.va#c.va	-0.005	0.003	-1.70	0.089	-0.011	0.001
vfq	-0.097	0.021	-4.53	0.000	-0.138	-0.055
c.vfq#c.vfq	-0.003	0.001	-2.90	0.004	-0.004	-0.001
mh	-1.480	0.497	-2.98	0.003	-2.455	-0.506
_cons	-0.674	0.331	-2.04	0.041	-1.322	-0.026

Stata command:

estat gof, group(10) all table

Logistic model for VFQ-I, goodness-of-fit test

(Table collapsed on quantiles of estimated probabilities)

Group	Prob	Obs_1	Exp_1	Obs_0	Exp_0	Total
1	0.0128	0	0.1	22	21.9	22
2	0.0394	0	0.6	22	21.4	22
3	0.0705	1	1.2	21	20.8	22
4	0.1212	3	2.0	18	19.0	21
5	0.1866	4	3.4	18	18.6	22
6	0.2810	8	5.2	14	16.8	22
7	0.3609	3	6.9	18	14.1	21
8	0.4794	8	9.2	14	12.8	22
9	0.5631	11	11.4	11	10.6	22
10	0.8427	16	14.0	5	7.0	21

number of observations =	217
number of groups =	10
Hosmer-Lemeshow chi2(8) =	7.86
Prob > chi2 =	0.4470