



```

1 .
2 . use "E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\UK_BIOBANK_PROJECT\UKB_PAPER8C_PERIODONTALDIS
3 .
4 .
5 . **
6 . **
7 . **
8 . ** 1. |      regr zodam poororalhealth_sev AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final=
9 . ** 2. |      regr zefna4 poororalhealth_sev AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final=
10 . ** 3. |      regr zacvr11 poororalhealth_sev AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final=
11 . ** 4. |      regr zgdf15 poororalhealth_sev AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final=
12 . ** 5. |      regr zren poororalhealth_sev AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final=
13 . **
14 . ** 6. |      regr zrnase6 poororalhealth_sev AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final=
15 . ** 7. |      regr ztnfrsf1a poororalhealth_sev AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final=
16 . ** 8. |      regr ztnfrsf4 poororalhealth_sev AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final=
17 . ** 9. |      regr zvsig4 poororalhealth_sev AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final=
18 . ** 10. |      regr zcd83 poororalhealth_sev AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final=
19 . **
20 . ** 11. |      regr zwfcd2 poororalhealth_sev AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final=
21 . ** 12. |      regr zcolec12 poororalhealth_sev AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final=
22 . **
23 .
24 .
25 .
26 .
27 . capture drop zFA_mean
28 . capture drop zMD_mean
29 . capture drop zISOVF_mean
30 . capture drop zICVF_mean
31 . capture drop zOD_mean
32 .
33 . foreach y of varlist FA_mean MD_mean ICVF_mean ISOVF_mean OD_mean {
34 .     2.      egen z`y`=std(`y`) if sample_final==1
35 .     3. }
36 .
37 . foreach m of varlist zodam zefna4 zacvr11 zgdf15 zren zrnase6 ztnfrsf1a ztnfrsf1a ztnfrsf4 zvsig4 zcd83 zwfcd2 {
38 .     2. foreach y of varlist zFA_mean zMD_mean zICVF_mean zISOVF_mean zOD_mean {
39 .         3. med4way `y' poororalhealth_sev `m' AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final==1 , a0
40 .         4. }
41 .         5. }
42 .     }
43 .
44 . Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8_TOTALSCORE were not provided. All
45 .
46 . -> Summary
47 .
48 . Outcome (yvar): zFA_mean
49 . Exposure (avar): poororalhealth_sev
50 . Mediator (mvar): zodam
51 . Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE
52 .
53 . Model for the outcome (yreg): linear
54 . Model for the mediator (mreg): linear

```

Referent exposure level (a0): 0  
 Actual exposure level (a1): 1  
 Mediator level for the decomposition (m): 0  
 Fixed values of the covariates (c): 54.54 1.533 .03132 2.608 -.009468 533.2

-> Model for the outcome

Iteration 0: Log likelihood = -6540.0992  
 Iteration 1: Log likelihood = -6540.0992

Linear regression (Maximum Likelihood)  
 Log likelihood = -6540.0992

Number of obs = 4,885  
 Wald chi2(9) = 848.30  
 Prob > chi2 = 0.0000

zFA_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.13495	.0446948	-3.02	0.003	-.2225502	-.0473499
zodam	-.0167553	.0146088	-1.15	0.251	-.045388	.0118774
_poororalhealXzodam_000	.0387873	.0361412	1.07	0.283	-.0320481	.1096228
AGE	-.0441296	.0019004	-23.22	0.000	-.0478543	-.040405
SEX	-.0808174	.0272454	-2.97	0.003	-.1342174	-.0274174
NonWhite	.0781787	.0762488	1.03	0.305	-.0712661	.2276236
householdsize	.0234738	.012325	1.90	0.057	-.0006828	.0476304
SES	.0472562	.0208663	2.26	0.024	.0063589	.0881535
LE8_TOTALSCORE	.0006945	.0001459	4.76	0.000	.0004086	.0009805
_cons	2.118037	.152465	13.89	0.000	1.819211	2.416863
sigma2						
_cons	.8519291	.017238	49.42	0.000	.8181433	.8857149

-> Model for the mediator

Iteration 0: Log likelihood = -6865.9364  
 Iteration 1: Log likelihood = -6865.9364

Linear regression (Maximum Likelihood)  
 Log likelihood = -6865.9364

Number of obs = 4,885  
 Wald chi2(7) = 131.91  
 Prob > chi2 = 0.0000

zodam	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.2885757	.0468397	-6.16	0.000	-.3803798	-.1967716
AGE	.0042004	.0020292	2.07	0.038	.0002233	.0081776
SEX	.215692	.02896	7.45	0.000	.1589315	.2724525
NonWhite	.1847086	.0814462	2.27	0.023	.0250769	.3443403
householdsize	.0013259	.013174	0.10	0.920	-.0244945	.0271464
SES	.054502	.0222885	2.45	0.014	.0108173	.0981867
LE8_TOTALSCORE	.0004999	.0001557	3.21	0.001	.0001946	.0008051
_cons	-.8038679	.1624526	-4.95	0.000	-1.122269	-.4854667
sigma2						
_cons	.9735083	.019698	49.42	0.000	.934901	1.012116

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.1401027	.0438298	-3.20	0.001	-.2260075	-.0541979
cde	-.13495	.0446948	-3.02	0.003	-.2225502	-.0473499
intref	.0012052	.0012646	0.95	0.341	-.0012734	.0036838
intmed	-.0111931	.0105865	-1.06	0.290	-.0319423	.0095561
pie	.0048352	.0042882	1.13	0.260	-.0035695	.0132398

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): zMD\_mean  
 Exposure (avar): poororalhealth\_sev  
 Mediator (mvar): zodam  
 Covariates (cvars): AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE

Model for the outcome (yreg): linear

Model for the mediator (mreg): linear

Referent exposure level (a0): 0  
 Actual exposure level (a1): 1  
 Mediator level for the decomposition (m): 0  
 Fixed values of the covariates (c): 54.54 1.533 .03132 2.608 -.009468 533.2

-> Model for the outcome

Iteration 0: Log likelihood = -6374.7097

Iteration 1: Log likelihood = -6374.7097

Linear regression (Maximum Likelihood)

Number of obs = 4,885

Wald chi2(9) = 1262.40

Log likelihood = -6374.7097

Prob > chi2 = 0.0000

zMD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.1016918	.0432069	2.35	0.019	.0170079	.1863757
zodam	-.0022513	.0141225	-0.16	0.873	-.0299308	.0254283
_poororalhealXzodam_000	-.044976	.0349381	-1.29	0.198	-.1134533	.0235014
AGE	.055157	.0018371	30.02	0.000	.0515564	.0587576
SEX	-.0867283	.0263384	-3.29	0.001	-.1383506	-.035106
NonWhite	-.2025673	.0737104	-2.75	0.006	-.3470371	-.0580974
householdsize	-.0219216	.0119147	-1.84	0.066	-.045274	.0014308
SES	.0208575	.0201717	1.03	0.301	-.0186783	.0603934
LE8_TOTALSCORE	.0000374	.000141	0.26	0.791	-.000239	.0003137
_cons	-2.846988	.1473895	-19.32	0.000	-3.135866	-2.55811
sigma2						
_cons	.7961519	.0161094	49.42	0.000	.7645782	.8277257

-> Model for the mediator

Iteration 0: Log likelihood = **-6865.9364**  
 Iteration 1: Log likelihood = **-6865.9364**

Linear regression (Maximum Likelihood)

Number of obs = **4,885**

Wald chi2(7) = **131.91**

Log likelihood = **-6865.9364**

Prob > chi2 = **0.0000**

zodam	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.2885757	.0468397	-6.16	0.000	-.3803798	-.1967716
AGE	.0042004	.0020292	2.07	0.038	.0002233	.0081776
SEX	.215692	.02896	7.45	0.000	.1589315	.2724525
NonWhite	.1847086	.0814462	2.27	0.023	.0250769	.3443403
householdsize	.0013259	.013174	0.10	0.920	-.0244945	.0271464
SES	.054502	.0222885	2.45	0.014	.0108173	.0981867
LE8_TOTALSCORE	.0004999	.0001557	3.21	0.001	.0001946	.0008051
_cons	-.8038679	.1624526	-4.95	0.000	-1.122269	-.4854667
sigma2						
_cons	.9735083	.019698	49.42	0.000	.934901	1.012116

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.1139229	.0424109	2.69	0.007	.030799	.1970468
cde	.1016918	.0432069	2.35	0.019	.0170079	.1863757
intref	-.0013975	.001278	-1.09	0.274	-.0039023	.0011072
intmed	.012979	.0103	1.26	0.208	-.0072087	.0331666
pie	.0006497	.0040768	0.16	0.873	-.0073407	.00864

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zICVF\_mean**

Exposure (avar): **poororalhealth\_sev**

Mediator (mvar): **zodam**

Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**

Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**

Actual exposure level (a1): **1**

Mediator level for the decomposition (m): **0**

Fixed values of the covariates (c): **54.54 1.533 .03132 2.608 -.009468 533.2**

-> Model for the outcome

Iteration 0: Log likelihood = **-6732.8779**

Iteration 1: Log likelihood = **-6732.8779**

Linear regression (Maximum Likelihood)

Number of obs = **4,885**Wald chi2(9) = **457.72**Log likelihood = **-6732.8779**Prob > chi2 = **0.0000**

zICVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	-.0828705	.0464938	-1.78	0.075	-.1739967	.0082558
zodam	-.0108956	.0151968	-0.72	0.473	-.0406808	.0188896
_poororalhealXzodam_000	.0334275	.037596	0.89	0.374	-.0402592	.1071143
AGE	-.035822	.0019768	-18.12	0.000	-.0396966	-.0319475
SEX	-.0213239	.0283421	-0.75	0.452	-.0768734	.0342255
NonWhite	.1721517	.079318	2.17	0.030	.0166914	.327612
householdsize	.0150007	.0128211	1.17	0.242	-.0101283	.0401296
SES	.007928	.0217063	0.37	0.715	-.0346155	.0504715
LE8_TOTALSCORE	-.0001058	.0001517	-0.70	0.485	-.0004033	.0001916
_cons	2.013841	.1586021	12.70	0.000	1.702986	2.324695
<b>sigma2</b>						
_cons	.9218938	.0186536	49.42	0.000	.8853334	.9584543

-&gt; Model for the mediator

Iteration 0: Log likelihood = **-6865.9364**Iteration 1: Log likelihood = **-6865.9364**

Linear regression (Maximum Likelihood)

Number of obs = **4,885**Wald chi2(7) = **131.91**Log likelihood = **-6865.9364**Prob > chi2 = **0.0000**

zodam	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	-.2885757	.0468397	-6.16	0.000	-.3803798	-.1967716
AGE	.0042004	.0020292	2.07	0.038	.0002233	.0081776
SEX	.215692	.02896	7.45	0.000	.1589315	.2724525
NonWhite	.1847086	.0814462	2.27	0.023	.0250769	.3443403
householdsize	.0013259	.013174	0.10	0.920	-.0244945	.0271464
SES	.054502	.0222885	2.45	0.014	.0108173	.0981867
LE8_TOTALSCORE	.0004999	.0001557	3.21	0.001	.0001946	.0008051
_cons	-.8038679	.1624526	-4.95	0.000	-1.122269	-.4854667
<b>sigma2</b>						
_cons	.9735083	.019698	49.42	0.000	.934901	1.012116

-&gt; 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.088334	.0455932	-1.94	0.053	-.1776951	.0010271
cde	-.0828705	.0464938	-1.78	0.075	-.1739967	.0082558
intref	.0010387	.0012712	0.82	0.414	-.0014527	.0035301
intmed	-.0096464	.0109617	-0.88	0.379	-.0311309	.0118381
pie	.0031442	.004415	0.71	0.476	-.0055091	.0117975

Warning: fixed values for the covariates AGE SEX NonWhite householdsSize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```
Outcome (yvar): zISOVF_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): zodam
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE
```

```
Model for the outcome (yreg): linear
Model for the mediator (mreg): linear
```

```
Referent exposure level (a0):      0
Actual exposure level (a1):       1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.54 1.533 .03132 2.608 -.009468 533.2
```

-> Model for the outcome

```
Iteration 0: Log likelihood = -6401.9216
Iteration 1: Log likelihood = -6401.9216
```

```
Linear regression (Maximum Likelihood)      Number of obs =    4,885
Wald chi2(9) = 1187.41
Log likelihood = -6401.9216                Prob > chi2   = 0.0000
```

zISOVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.0993093	.0434482	2.29	0.022	.0141523	.1844663
zodam	-.0036103	.0142014	-0.25	0.799	-.0314445	.0242238
_poororalhealXzodam_000	-.0423827	.0351332	-1.21	0.228	-.1112426	.0264772
AGE	.053737	.0018474	29.09	0.000	.0501162	.0573577
SEX	-.0812022	.0264855	-3.07	0.002	-.1331129	-.0292915
NonWhite	-.066853	.0741222	-0.90	0.367	-.2121298	.0784238
householdsize	-.0266679	.0119813	-2.23	0.026	-.0501508	-.0031851
SES	.046567	.0202844	2.30	0.022	.0068103	.0863237
LE8_TOTALSCORE	-.0001129	.0001418	-0.80	0.426	-.0003908	.0001651
_cons	-2.685776	.1482128	-18.12	0.000	-2.976268	-2.395285
<b>sigma2</b>						
_cons	.8050715	.0162899	49.42	0.000	.773144	.836999

-> Model for the mediator

```
Iteration 0: Log likelihood = -6865.9364
Iteration 1: Log likelihood = -6865.9364
```

```
Linear regression (Maximum Likelihood)      Number of obs = 4,885
                                           Wald chi2(7) = 131.91
Log likelihood = -6865.9364                Prob > chi2 = 0.0000
```

zodam	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	-.2885757	.0468397	-6.16	0.000	-.3803798	-.1967716
AGE	.0042004	.0020292	2.07	0.038	.0002233	.0081776
SEX	.215692	.02896	7.45	0.000	.1589315	.2724525
NonWhite	.1847086	.0814462	2.27	0.023	.0250769	.3443403
householdsize	.0013259	.013174	0.10	0.920	-.0244945	.0271464
SES	.054502	.0222885	2.45	0.014	.0108173	.0981867
LE8_TOTALSCORE	.0004999	.0001557	3.21	0.001	.0001946	.0008051
_cons	-.8038679	.1624526	-4.95	0.000	-1.122269	-.4854667
<b>sigma2</b>						
_cons	.9735083	.019698	49.42	0.000	.934901	1.012116

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.1112648	.0426447	2.61	0.009	.0276828	.1948468
cde	.0993093	.0434482	2.29	0.022	.0141523	.1844663
intref	-.0013169	.0012631	-1.04	0.297	-.0037926	.0011587
intmed	.0122306	.0103311	1.18	0.236	-.008018	.0324792
pie	.0010419	.0041017	0.25	0.799	-.0069972	.0090809

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zOD_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): zodam
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.54 1.533 .03132 2.608 -.009468 533.2

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6837.3119
Iteration 1: Log likelihood = -6837.3119

```

Linear regression (Maximum Likelihood)

Log likelihood = -6837.3119

Number of obs = 4,885

Wald chi2(9) = 232.16

Prob > chi2 = 0.0000

zOD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.0658122	.0474985	1.39	0.166	-.0272831	.1589076
zodam	.0137854	.0155252	0.89	0.375	-.0166435	.0442142
_poororalhealXzodam_000	-.0022863	.0384084	-0.06	0.953	-.0775653	.0729927
AGE	.0217845	.0020196	10.79	0.000	.0178262	.0257427
SEX	.0361929	.0289545	1.25	0.211	-.0205569	.0929428
NonWhite	.1063222	.0810319	1.31	0.189	-.0524974	.2651419
householdsize	-.0119215	.0130982	-0.91	0.363	-.0375934	.0137505
SES	-.0475592	.0221753	-2.14	0.032	-.091022	-.0040963
LE8_TOTALSCORE	-.0008773	.000155	-5.66	0.000	-.0011811	-.0005735
_cons	-.7566682	.1620293	-4.67	0.000	-1.07424	-.4390967
<b>sigma2</b>						
_cons	.9621661	.0194685	49.42	0.000	.9240085	1.000324

-> Model for the mediator

Iteration 0: Log likelihood = -6865.9364

Iteration 1: Log likelihood = -6865.9364

Linear regression (Maximum Likelihood)

Number of obs = 4,885

Wald chi2(7) = 131.91

Log likelihood = -6865.9364

Prob > chi2 = 0.0000

zodam	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	-.2885757	.0468397	-6.16	0.000	-.3803798	-.1967716
AGE	.0042004	.0020292	2.07	0.038	.0002233	.0081776
SEX	.215692	.02896	7.45	0.000	.1589315	.2724525
NonWhite	.1847086	.0814462	2.27	0.023	.0250769	.3443403
householdsize	.0013259	.013174	0.10	0.920	-.0244945	.0271464
SES	.054502	.0222885	2.45	0.014	.0108173	.0981867
LE8_TOTALSCORE	.0004999	.0001557	3.21	0.001	.0001946	.0008051
_cons	-.8038679	.1624526	-4.95	0.000	-1.122269	-.4854667
<b>sigma2</b>						
_cons	.9735083	.019698	49.42	0.000	.934901	1.012116

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0624228	.0465704	1.34	0.180	-.0288535	.1536992
cde	.0658122	.0474985	1.39	0.166	-.0272831	.1589076
intref	-.000071	.0011939	-0.06	0.953	-.0024111	.0022691
intmed	.0006598	.0110842	0.06	0.953	-.0210649	.0223845
pie	-.0039781	.0045265	-0.88	0.379	-.0128499	.0048936

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All



-> Summary

Outcome (yvar): **zFA\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zefna4**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.55 1.534 .03127 2.605 -.009514 533.6**

-> Model for the outcome

Iteration 0: Log likelihood = **-6641.1347**  
 Iteration 1: Log likelihood = **-6641.1347**

Linear regression (Maximum Likelihood)      Number of obs = **4,957**  
    Wald chi2(9) = **858.33**  
 Log likelihood = **-6641.1347**                      Prob > chi2 = **0.0000**

zFA_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.1449935	.0453466	-3.20	0.001	-.2338712	-.0561159
zefna4	-.0074792	.0148858	-0.50	0.615	-.0366549	.0216965
_poororalhealXzefna4_000	.0110975	.0366648	0.30	0.762	-.0607643	.0829592
AGE	-.0436723	.0019047	-22.93	0.000	-.0474054	-.0399391
SEX	-.083016	.0270126	-3.07	0.002	-.1359597	-.0300723
NonWhite	.0638022	.075801	0.84	0.400	-.0847649	.2123694
householdsize	.0257864	.012276	2.10	0.036	.0017258	.0498469
SES	.0520215	.0207637	2.51	0.012	.0113253	.0927176
LE8_TOTALSCORE	.0006958	.0001464	4.75	0.000	.0004089	.0009828
_cons	2.086112	.1507437	13.84	0.000	1.79066	2.381564
sigma2						
_cons	.8535258	.0171444	49.78	0.000	.8199234	.8871282

-> Model for the mediator

Iteration 0: Log likelihood = **-6808.781**  
 Iteration 1: Log likelihood = **-6808.781**

Linear regression (Maximum Likelihood)      Number of obs = **4,957**  
    Wald chi2(7) = **469.74**  
 Log likelihood = **-6808.781**                      Prob > chi2 = **0.0000**

zefna4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.2504056	.0451005	5.55	0.000	.1620103	.338801
AGE	.0205664	.0019484	10.56	0.000	.0167476	.0243852
SEX	-.1303773	.0278782	-4.68	0.000	-.1850175	-.075737
NonWhite	-.075135	.0783902	-0.96	0.338	-.2287771	.078507
householdsize	.0061976	.0126977	0.49	0.625	-.0186895	.0310846
SES	-.0882529	.0214413	-4.12	0.000	-.1302771	-.0462286
LE8_TOTALSCORE	-.0016447	.0001496	-10.99	0.000	-.0019379	-.0013515
_cons	-.0857714	.1559216	-0.55	0.582	-.3913722	.2198294
<b>sigma2</b>						
_cons	.9132558	.0183442	49.78	0.000	.8773019	.9492097

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.1443863	.0439129	-3.29	0.001	-.2304539	-.0583186
cde	-.1449935	.0453466	-3.20	0.001	-.2338712	-.0561159
intref	-.0002988	.0010001	-0.30	0.765	-.0022589	.0016613
intmed	.0027789	.0091947	0.30	0.762	-.0152424	.0208002
pie	-.0018728	.0037427	-0.50	0.617	-.0092085	.0054628

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zMD_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): zefna4
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.55 1.534 .03127 2.605 -.009514 533.6

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6472.3922
Iteration 1: Log likelihood = -6472.3922

```

Linear regression (Maximum Likelihood)

Number of obs = 4,957

Wald chi2(9) = 1275.89

Log likelihood = -6472.3922

Prob > chi2 = 0.0000

zMD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.106923	.0438289	2.44	0.015	.0210199	.1928261
zefna4	-.0203937	.0143876	-1.42	0.156	-.0485929	.0078056
_poororalhealXzefna4_000	.0333328	.0354377	0.94	0.347	-.0361239	.1027895
AGE	.0551968	.001841	29.98	0.000	.0515885	.058805
SEX	-.0934053	.0261085	-3.58	0.000	-.1445771	-.0422336
NonWhite	-.2026135	.073264	-2.77	0.006	-.3462084	-.0590187
householdsize	-.0224899	.0118652	-1.90	0.058	-.0457452	.0007654
SES	.0132952	.0200688	0.66	0.508	-.0260389	.0526294
LE8_TOTALSCORE	-.000029	.0001415	-0.20	0.838	-.0003063	.0002484
_cons	-2.800911	.1456985	-19.22	0.000	-3.086474	-2.515347
sigma2						
_cons	.7973496	.016016	49.78	0.000	.7659588	.8287404

-> Model for the mediator

Iteration 0: Log likelihood = -6808.781

Iteration 1: Log likelihood = -6808.781

Linear regression (Maximum Likelihood)

Number of obs = 4,957

Wald chi2(7) = 469.74

Log likelihood = -6808.781

Prob > chi2 = 0.0000

zefna4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.2504056	.0451005	5.55	0.000	.1620103	.338801
AGE	.0205664	.0019484	10.56	0.000	.0167476	.0243852
SEX	-.1303773	.0278782	-4.68	0.000	-.1850175	-.075737
NonWhite	-.075135	.0783902	-0.96	0.338	-.2287771	.078507
householdsize	.0061976	.0126977	0.49	0.625	-.0186895	.0310846
SES	-.0882529	.0214413	-4.12	0.000	-.1302771	-.0462286
LE8_TOTALSCORE	-.0016447	.0001496	-10.99	0.000	-.0019379	-.0013515
_cons	-.0857714	.1559216	-0.55	0.582	-.3913722	.2198294
sigma2						
_cons	.9132558	.0183442	49.78	0.000	.8773019	.9492097

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.1092655	.0424473	2.57	0.010	.0260703	.1924607
cde	.106923	.0438289	2.44	0.015	.0210199	.1928261
intref	-.0008975	.0010683	-0.84	0.401	-.0029913	.0011963
intmed	.0083467	.0090002	0.93	0.354	-.0092934	.0259869
pie	-.0051067	.0037183	-1.37	0.170	-.0123944	.002181

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zICVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zefna4**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.55 1.534 .03127 2.605 -.009514 533.6**

-> Model for the outcome

Iteration 0: Log likelihood = **-6818.2328**  
 Iteration 1: Log likelihood = **-6818.2328**

Linear regression (Maximum Likelihood)      Number of obs = **4,957**  
    Wald chi2(9) = **463.31**  
 Log likelihood = **-6818.2328**                      Prob > chi2 = **0.0000**

zICVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.0910305	.046996	-1.94	0.053	-.1831409	.0010799
zefna4	-.0013187	.0154273	-0.09	0.932	-.0315557	.0289182
_poororalhealXzefna4_000	-.0084925	.0379984	-0.22	0.823	-.0829681	.0659831
AGE	-.0354215	.001974	-17.94	0.000	-.0392905	-.0315525
SEX	-.0160854	.0279951	-0.57	0.566	-.0709548	.0387839
NonWhite	.1536159	.0785581	1.96	0.051	-.0003551	.3075868
householdsize	.0176344	.0127225	1.39	0.166	-.0073013	.0425701
SES	.0094987	.021519	0.44	0.659	-.0326777	.0516752
LE8_TOTALSCORE	-.0001002	.0001517	-0.66	0.509	-.0003976	.0001972
_cons	1.970386	.1562266	12.61	0.000	1.664188	2.276585
sigma2						
_cons	.9167451	.0184143	49.78	0.000	.8806539	.9528364

-> Model for the mediator

Iteration 0: Log likelihood = **-6808.781**  
 Iteration 1: Log likelihood = **-6808.781**

Linear regression (Maximum Likelihood)      Number of obs = **4,957**  
    Wald chi2(7) = **469.74**  
 Log likelihood = **-6808.781**                      Prob > chi2 = **0.0000**

zefna4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.2504056	.0451005	5.55	0.000	.1620103	.338801
AGE	.0205664	.0019484	10.56	0.000	.0167476	.0243852
SEX	-.1303773	.0278782	-4.68	0.000	-.1850175	-.075737
NonWhite	-.075135	.0783902	-0.96	0.338	-.2287771	.078507
householdsize	.0061976	.0126977	0.49	0.625	-.0186895	.0310846
SES	-.0882529	.0214413	-4.12	0.000	-.1302771	-.0462286
LE8_TOTALSCORE	-.0016447	.0001496	-10.99	0.000	-.0019379	-.0013515
_cons	-.0857714	.1559216	-0.55	0.582	-.3913722	.2198294
<b>sigma2</b>						
_cons	.9132558	.0183442	49.78	0.000	.8773019	.9492097

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.0932587	.0455116	-2.05	0.040	-.1824598	-.0040576
cde	-.0910305	.046996	-1.94	0.053	-.1831409	.0010799
intref	.0002287	.0010304	0.22	0.824	-.0017909	.0022482
intmed	-.0021266	.0095227	-0.22	0.823	-.0207908	.0165376
pie	-.0003302	.0038635	-0.09	0.932	-.0079026	.0072422

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zISOVF_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): zefna4
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.55 1.534 .03127 2.605 -.009514 533.6

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6507.9423
Iteration 1: Log likelihood = -6507.9423

```

Linear regression (Maximum Likelihood)

Log likelihood = -6507.9423

Number of obs = 4,957

Wald chi2(9) = 1197.86

Prob > chi2 = 0.0000

zISOVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.099336	.0441444	2.25	0.024	.0128147	.1858574
zefna4	-.0285788	.0144912	-1.97	0.049	-.056981	-.0001766
_poororalhealXzefna4_000	.0347658	.0356928	0.97	0.330	-.0351908	.1047224
AGE	.0541455	.0018542	29.20	0.000	.0505113	.0577797
SEX	-.0843673	.0262964	-3.21	0.001	-.1359074	-.0328273
NonWhite	-.0882941	.0737913	-1.20	0.231	-.2329225	.0563343
householdsize	-.0241976	.0119506	-2.02	0.043	-.0476202	-.0007749
SES	.0353146	.0202133	1.75	0.081	-.0043026	.0749319
LE8_TOTALSCORE	-.000208	.0001425	-1.46	0.144	-.0004873	.0000713
_cons	-2.66056	.1467472	-18.13	0.000	-2.948179	-2.372941
<b>sigma2</b>						
_cons	.8088687	.0162474	49.78	0.000	.7770244	.840713

-> Model for the mediator

Iteration 0: Log likelihood = -6808.781

Iteration 1: Log likelihood = -6808.781

Linear regression (Maximum Likelihood)

Number of obs = 4,957

Wald chi2(7) = 469.74

Log likelihood = -6808.781

Prob > chi2 = 0.0000

zefna4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.2504056	.0451005	5.55	0.000	.1620103	.338801
AGE	.0205664	.0019484	10.56	0.000	.0167476	.0243852
SEX	-.1303773	.0278782	-4.68	0.000	-.1850175	-.075737
NonWhite	-.075135	.0783902	-0.96	0.338	-.2287771	.078507
householdsize	.0061976	.0126977	0.49	0.625	-.0186895	.0310846
SES	-.0882529	.0214413	-4.12	0.000	-.1302771	-.0462286
LE8_TOTALSCORE	-.0016447	.0001496	-10.99	0.000	-.0019379	-.0013515
_cons	-.0857714	.1559216	-0.55	0.582	-.3913722	.2198294
<b>sigma2</b>						
_cons	.9132558	.0183442	49.78	0.000	.8773019	.9492097

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0999492	.042751	2.34	0.019	.0161588	.1837397
cde	.099336	.0441444	2.25	0.024	.0128147	.1858574
intref	-.0009361	.0010838	-0.86	0.388	-.0030603	.0011882
intmed	.0087056	.0090742	0.96	0.337	-.0090795	.0264906
pie	-.0071563	.0038508	-1.86	0.063	-.0147037	.0003911

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zOD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zefna4**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.55 1.534 .03127 2.605 -.009514 533.6**

-> Model for the outcome

Iteration 0: Log likelihood = **-6932.7328**  
 Iteration 1: Log likelihood = **-6932.7328**

Linear regression (Maximum Likelihood)      Number of obs = **4,957**  
    Wald chi2(9) = **237.99**  
 Log likelihood = **-6932.7328**                      Prob > chi2 = **0.0000**

zOD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0697311	.0480941	1.45	0.147	-.0245317	.1639938
zefna4	.0320871	.0157878	2.03	0.042	.0011436	.0630306
_poororalhealXzefna4_000	-.0535953	.0388864	-1.38	0.168	-.1298112	.0226206
AGE	.0209885	.0020201	10.39	0.000	.0170292	.0249479
SEX	.0452467	.0286493	1.58	0.114	-.0109048	.1013983
NonWhite	.105197	.0803938	1.31	0.191	-.0523718	.2627659
householdsize	-.0117543	.0130198	-0.90	0.367	-.0372727	.0137641
SES	-.0523678	.0220218	-2.38	0.017	-.0955298	-.0092058
LE8_TOTALSCORE	-.0008305	.0001553	-5.35	0.000	-.0011348	-.0005262
_cons	-.7497419	.1598773	-4.69	0.000	-1.063096	-.4363882
sigma2						
_cons	.9600898	.0192849	49.78	0.000	.9222921	.9978875

-> Model for the mediator

Iteration 0: Log likelihood = **-6808.781**  
 Iteration 1: Log likelihood = **-6808.781**

Linear regression (Maximum Likelihood)      Number of obs = **4,957**  
    Wald chi2(7) = **469.74**  
 Log likelihood = **-6808.781**                      Prob > chi2 = **0.0000**

zefna4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.2504056	.0451005	5.55	0.000	.1620103	.338801
AGE	.0205664	.0019484	10.56	0.000	.0167476	.0243852
SEX	-.1303773	.0278782	-4.68	0.000	-.1850175	-.075737
NonWhite	-.075135	.0783902	-0.96	0.338	-.2287771	.078507
householdsize	.0061976	.0126977	0.49	0.625	-.0186895	.0310846
SES	-.0882529	.0214413	-4.12	0.000	-.1302771	-.0462286
LE8_TOTALSCORE	-.0016447	.0001496	-10.99	0.000	-.0019379	-.0013515
_cons	-.0857714	.1559216	-0.55	0.582	-.3913722	.2198294
<b>sigma2</b>						
_cons	.9132558	.0183442	49.78	0.000	.8773019	.9492097

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0657883	.0465842	1.41	0.158	-.0255151	.1570918
cde	.0697311	.0480941	1.45	0.147	-.0245317	.1639938
intref	.001443	.0013011	1.11	0.267	-.0011072	.0039932
intmed	-.0134206	.0100329	-1.34	0.181	-.0330847	.0062436
pie	.0080348	.0042099	1.91	0.056	-.0002164	.016286

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zFA\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zacvr11**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.55 1.534 .03127 2.605 -.009514 533.6**

-> Model for the outcome

Iteration 0: Log likelihood = **-6640.6652**  
 Iteration 1: Log likelihood = **-6640.6652**

Linear regression (Maximum Likelihood)      Number of obs = **4,957**  
    Wald chi2(9) = **859.44**  
 Log likelihood = **-6640.6652**                      Prob > chi2 = **0.0000**



zFA_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.1299938	.0458693	-2.83	0.005	-.219896	-.0400917
zacvr11	.0113632	.0151842	0.75	0.454	-.0183972	.0411237
_poororalhealXzacvr11_000	-.039888	.0392377	-1.02	0.309	-.1167925	.0370165
AGE	-.0439703	.0019138	-22.97	0.000	-.0477214	-.0402193
SEX	-.0794768	.0274039	-2.90	0.004	-.1331874	-.0257661
NonWhite	.0635825	.0757904	0.84	0.402	-.084964	.2121289
householdsize	.0260083	.0122816	2.12	0.034	.0019368	.0500798
SES	.0528291	.0207528	2.55	0.011	.0121543	.0935039
LE8_TOTALSCORE	.0007208	.000147	4.90	0.000	.0004327	.0010089
_cons	2.083658	.1507738	13.82	0.000	1.788147	2.379169
sigma2						
_cons	.8533641	.0171411	49.78	0.000	.8197681	.8869602

-> Model for the mediator

Iteration 0: Log likelihood = -6642.8637

Iteration 1: Log likelihood = -6642.8637

Linear regression (Maximum Likelihood)

Number of obs = 4,957

Wald chi2(7) = 845.45

Log likelihood = -6642.8637

Prob > chi2 = 0.0000

zacvr11	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.224027	.0436159	5.14	0.000	.1385414	.3095127
AGE	.0238081	.0018843	12.64	0.000	.020115	.0275012
SEX	-.3475608	.0269605	-12.89	0.000	-.4004025	-.2947192
NonWhite	-.0877101	.0758098	-1.16	0.247	-.2362947	.0608745
householdsize	-.0288318	.0122797	-2.35	0.019	-.0528997	-.004764
SES	-.0733415	.0207355	-3.54	0.000	-.1139824	-.0327006
LE8_TOTALSCORE	-.0018349	.0001447	-12.68	0.000	-.0021184	-.0015514
_cons	.2667214	.1507891	1.77	0.077	-.0288198	.5622626
sigma2						
_cons	.8541214	.0171564	49.78	0.000	.8204956	.8877473

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.1354233	.0442129	-3.06	0.002	-.2220791	-.0487676
cde	-.1299938	.0458693	-2.83	0.005	-.219896	-.0400917
intref	.0009608	.0010966	0.88	0.381	-.0011884	.0031101
intmed	-.008936	.0089608	-1.00	0.319	-.0264989	.0086269
pie	.0025457	.0034376	0.74	0.459	-.0041919	.0092832

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zMD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zacvr11**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.55 1.534 .03127 2.605 -.009514 533.6**

-> Model for the outcome

Iteration 0: Log likelihood = **-6470.235**  
 Iteration 1: Log likelihood = **-6470.235**

Linear regression (Maximum Likelihood)      Number of obs = **4,957**  
    Wald chi2(9) = **1281.32**  
 Log likelihood = **-6470.235**                      Prob > chi2 = **0.0000**

zMD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0863869	.044319	1.95	0.051	-.0004768	.1732506
zacvr11	-.0269592	.014671	-1.84	0.066	-.0557138	.0017955
_poororalhealXzacvr11_000	.0874457	.0379116	2.31	0.021	.0131403	.161751
AGE	.0553044	.0018492	29.91	0.000	.0516801	.0589287
SEX	-.0977324	.0264777	-3.69	0.000	-.1496277	-.045837
NonWhite	-.202214	.0732289	-2.76	0.006	-.3457399	-.058688
householdsize	-.0233332	.0118665	-1.97	0.049	-.0465912	-.0000753
SES	.0137599	.0200514	0.69	0.493	-.0255402	.05306
LE8_TOTALSCORE	-.0000368	.000142	-0.26	0.795	-.0003152	.0002415
_cons	-2.793982	.145678	-19.18	0.000	-3.079506	-2.508458
sigma2						
_cons	.7966559	.0160021	49.78	0.000	.7652924	.8280194

-> Model for the mediator

Iteration 0: Log likelihood = **-6642.8637**  
 Iteration 1: Log likelihood = **-6642.8637**

Linear regression (Maximum Likelihood)      Number of obs = **4,957**  
    Wald chi2(7) = **845.45**  
 Log likelihood = **-6642.8637**                      Prob > chi2 = **0.0000**

zacvrl1	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.224027	.0436159	5.14	0.000	.1385414	.3095127
AGE	.0238081	.0018843	12.64	0.000	.020115	.0275012
SEX	-.3475608	.0269605	-12.89	0.000	-.4004025	-.2947192
NonWhite	-.0877101	.0758098	-1.16	0.247	-.2362947	.0608745
householdsize	-.0288318	.0122797	-2.35	0.019	-.0528997	-.004764
SES	-.0733415	.0207355	-3.54	0.000	-.1139824	-.0327006
LE8_TOTALSCORE	-.0018349	.0001447	-12.68	0.000	-.0021184	-.0015514
_cons	.2667214	.1507891	1.77	0.077	-.0288198	.5622626
<b>sigma2</b>						
_cons	.8541214	.0171564	49.78	0.000	.8204956	.8877473

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0978311	.0427769	2.29	0.022	.0139898	.1816723
cde	.0863869	.044319	1.95	0.051	-.0004768	.1732506
intref	-.0021064	.0015231	-1.38	0.167	-.0050916	.0008787
intmed	.0195902	.0093103	2.10	0.035	.0013424	.037838
pie	-.0060396	.0034907	-1.73	0.084	-.0128812	.0008021

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zICVF_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): zacvrl1
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.55 1.534 .03127 2.605 -.009514 533.6

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6817.9154
Iteration 1: Log likelihood = -6817.9154

```

```

Linear regression (Maximum Likelihood)           Number of obs = 4,957
                                                    Wald chi2(9) = 464.01
Log likelihood = -6817.9154                       Prob > chi2 = 0.0000

```

zICVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	-.0819529	.0475392	-1.72	0.085	-.175128	.0112221
zacvr11	.0025676	.015737	0.16	0.870	-.0282763	.0334115
_poororalhealXzacvr11_000	-.0340017	.0406661	-0.84	0.403	-.1137059	.0457025
AGE	-.0354526	.0019835	-17.87	0.000	-.0393402	-.031565
SEX	-.0159987	.0284015	-0.56	0.573	-.0716647	.0396672
NonWhite	.1532545	.0785495	1.95	0.051	-.0006997	.3072087
householdsize	.0176714	.0127287	1.39	0.165	-.0072765	.0426192
SES	.009487	.0215083	0.44	0.659	-.0326685	.0516425
LE8_TOTALSCORE	-.0000972	.0001523	-0.64	0.523	-.0003957	.0002014
_cons	1.97043	.1562626	12.61	0.000	1.664161	2.276699
<b>sigma2</b>						
_cons	.9166277	.0184119	49.78	0.000	.8805411	.9527144

-> Model for the mediator

Iteration 0: Log likelihood = -6642.8637

Iteration 1: Log likelihood = -6642.8637

Linear regression (Maximum Likelihood)

Number of obs = 4,957

Wald chi2(7) = 845.45

Log likelihood = -6642.8637

Prob > chi2 = 0.0000

zacvr11	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.224027	.0436159	5.14	0.000	.1385414	.3095127
AGE	.0238081	.0018843	12.64	0.000	.020115	.0275012
SEX	-.3475608	.0269605	-12.89	0.000	-.4004025	-.2947192
NonWhite	-.0877101	.0758098	-1.16	0.247	-.2362947	.0608745
householdsize	-.0288318	.0122797	-2.35	0.019	-.0528997	-.004764
SES	-.0733415	.0207355	-3.54	0.000	-.1139824	-.0327006
LE8_TOTALSCORE	-.0018349	.0001447	-12.68	0.000	-.0021184	-.0015514
_cons	.2667214	.1507891	1.77	0.077	-.0288198	.5622626
<b>sigma2</b>						
_cons	.8541214	.0171564	49.78	0.000	.8204956	.8877473

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.088176	.0458244	-1.92	0.054	-.1779901	.0016381
cde	-.0819529	.0475392	-1.72	0.085	-.175128	.0112221
intref	.000819	.0010882	0.75	0.452	-.0013138	.0029519
intmed	-.0076173	.0092302	-0.83	0.409	-.0257082	.0104736
pie	.0005752	.0035273	0.16	0.870	-.0063381	.0074886

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zISOVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zacvr11**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.55 1.534 .03127 2.605 -.009514 533.6**

-> Model for the outcome

Iteration 0: Log likelihood = **-6506.4417**  
 Iteration 1: Log likelihood = **-6506.4417**

Linear regression (Maximum Likelihood)      Number of obs = **4,957**  
    Wald chi2(9) = **1201.59**  
 Log likelihood = **-6506.4417**                      Prob > chi2 = **0.0000**

zISOVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0791559	.0446439	1.77	0.076	-.0083447	.1666564
zacvr11	-.0311693	.0147786	-2.11	0.035	-.0601347	-.0022038
_poororalhealXzacvr11_000	.0850095	.0381895	2.23	0.026	.0101594	.1598595
AGE	.0541949	.0018627	29.09	0.000	.0505441	.0578457
SEX	-.0891837	.0266718	-3.34	0.001	-.1414595	-.0369079
NonWhite	-.0877923	.0737657	-1.19	0.234	-.2323705	.0567858
householdsize	-.0252175	.0119535	-2.11	0.035	-.048646	-.0017891
SES	.0361397	.0201984	1.79	0.074	-.0034484	.0757279
LE8_TOTALSCORE	-.0002107	.000143	-1.47	0.141	-.0004911	.0000696
_cons	-2.651838	.146746	-18.07	0.000	-2.939455	-2.364222
sigma2						
_cons	.8083792	.0162376	49.78	0.000	.7765541	.8402042

-> Model for the mediator

Iteration 0: Log likelihood = **-6642.8637**  
 Iteration 1: Log likelihood = **-6642.8637**

Linear regression (Maximum Likelihood)      Number of obs = **4,957**  
    Wald chi2(7) = **845.45**  
 Log likelihood = **-6642.8637**                      Prob > chi2 = **0.0000**

zacvrl1	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.224027	.0436159	5.14	0.000	.1385414	.3095127
AGE	.0238081	.0018843	12.64	0.000	.020115	.0275012
SEX	-.3475608	.0269605	-12.89	0.000	-.4004025	-.2947192
NonWhite	-.0877101	.0758098	-1.16	0.247	-.2362947	.0608745
householdsize	-.0288318	.0122797	-2.35	0.019	-.0528997	-.004764
SES	-.0733415	.0207355	-3.54	0.000	-.1139824	-.0327006
LE8_TOTALSCORE	-.0018349	.0001447	-12.68	0.000	-.0021184	-.0015514
_cons	.2667214	.1507891	1.77	0.077	-.0288198	.5622626
<b>sigma2</b>						
_cons	.8541214	.0171564	49.78	0.000	.8204956	.8877473

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0891698	.0430751	2.07	0.038	.0047441	.1735954
cde	.0791559	.0446439	1.77	0.076	-.0083447	.1666564
intref	-.0020477	.0015001	-1.37	0.172	-.0049879	.0008925
intmed	.0190444	.0093244	2.04	0.041	.000769	.0373198
pie	-.0069828	.003579	-1.95	0.051	-.0139976	.000032

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zOD_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): zacvrl1
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.55 1.534 .03127 2.605 -.009514 533.6

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6934.834
Iteration 1: Log likelihood = -6934.834

```

Linear regression (Maximum Likelihood)

Log likelihood = -6934.834

Number of obs = 4,957

Wald chi2(9) = 233.59

Prob > chi2 = 0.0000

zOD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.0657922	.0486738	1.35	0.176	-.0296066	.161191
zacvr11	-.003538	.0161126	-0.22	0.826	-.035118	.0280421
_poororalhealXzacvr11_000	-.0177837	.0416367	-0.43	0.669	-.0993901	.0638228
AGE	.0216245	.0020308	10.65	0.000	.0176441	.0256048
SEX	.039879	.0290794	1.37	0.170	-.0171155	.0968735
NonWhite	.1043906	.0804242	1.30	0.194	-.0532381	.2620192
householdsize	-.0116131	.0130325	-0.89	0.373	-.0371563	.0139302
SES	-.0548903	.0220217	-2.49	0.013	-.0980519	-.0117286
LE8_TOTALSCORE	-.0008834	.000156	-5.66	0.000	-.0011891	-.0005777
_cons	-.7493933	.1599921	-4.68	0.000	-1.062972	-.4358145
<b>sigma2</b>						
_cons	.9609041	.0193013	49.78	0.000	.9230743	.9987339

-> Model for the mediator

Iteration 0: Log likelihood = -6642.8637

Iteration 1: Log likelihood = -6642.8637

Linear regression (Maximum Likelihood)

Number of obs = 4,957

Wald chi2(7) = 845.45

Log likelihood = -6642.8637

Prob > chi2 = 0.0000

zacvr11	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.224027	.0436159	5.14	0.000	.1385414	.3095127
AGE	.0238081	.0018843	12.64	0.000	.020115	.0275012
SEX	-.3475608	.0269605	-12.89	0.000	-.4004025	-.2947192
NonWhite	-.0877101	.0758098	-1.16	0.247	-.2362947	.0608745
householdsize	-.0288318	.0122797	-2.35	0.019	-.0528997	-.004764
SES	-.0733415	.0207355	-3.54	0.000	-.1139824	-.0327006
LE8_TOTALSCORE	-.0018349	.0001447	-12.68	0.000	-.0021184	-.0015514
_cons	.2667214	.1507891	1.77	0.077	-.0288198	.5622626
<b>sigma2</b>						
_cons	.8541214	.0171564	49.78	0.000	.8204956	.8877473

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0614439	.0469076	1.31	0.190	-.0304933	.1533812
cde	.0657922	.0486738	1.35	0.176	-.0296066	.161191
intref	.0004284	.0010331	0.41	0.678	-.0015965	.0024533
intmed	-.003984	.0093599	-0.43	0.670	-.0223292	.0143611
pie	-.0007926	.0036129	-0.22	0.826	-.0078739	.0062886

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zFA\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zgdf15**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.57 1.535 .03183 2.603 -.008738 533.7**

-> Model for the outcome

Iteration 0: Log likelihood = **-6763.9948**  
 Iteration 1: Log likelihood = **-6763.9948**

Linear regression (Maximum Likelihood)      Number of obs = **5,058**  
    Wald chi2(9) = **901.35**  
 Log likelihood = **-6763.9948**                      Prob > chi2 = **0.0000**

zFA_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.0971573	.0466445	-2.08	0.037	-.1885789	-.0057357
zgdf15	-.0418409	.0157679	-2.65	0.008	-.0727455	-.0109363
_poororalhealXzgdf15_000	-.0588257	.0423325	-1.39	0.165	-.1417959	.0241445
AGE	-.0417911	.002015	-20.74	0.000	-.0457404	-.0378417
SEX	-.0897619	.0266981	-3.36	0.001	-.1420891	-.0374347
NonWhite	.0509811	.0742316	0.69	0.492	-.0945101	.1964723
householdsize	.0222188	.012118	1.83	0.067	-.001532	.0459695
SES	.0487464	.0205302	2.37	0.018	.008508	.0889848
LE8_TOTALSCORE	.0006591	.0001448	4.55	0.000	.0003753	.000943
_cons	2.020865	.150992	13.38	0.000	1.724926	2.316804
sigma2						
_cons	.8493328	.016889	50.29	0.000	.816231	.8824346

-> Model for the mediator

Iteration 0: Log likelihood = **-6428.4297**  
 Iteration 1: Log likelihood = **-6428.4297**

Linear regression (Maximum Likelihood)      Number of obs = **5,058**  
    Wald chi2(7) = **1740.92**  
 Log likelihood = **-6428.4297**                      Prob > chi2 = **0.0000**



zgdff15	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1977713	.039994	4.95	0.000	.1193846	.2761581
AGE	.0514362	.0017407	29.55	0.000	.0480244	.054848
SEX	-.1437706	.0249022	-5.77	0.000	-.1925781	-.0949631
NonWhite	-.1068199	.0694466	-1.54	0.124	-.2429328	.0292929
householdsize	-.0444247	.0113228	-3.92	0.000	-.066617	-.0222324
SES	-.0613723	.0191889	-3.20	0.001	-.0989819	-.0237627
LE8_TOTALSCORE	-.0015832	.0001337	-11.84	0.000	-.0018453	-.0013212
_cons	-1.644265	.1393772	-11.80	0.000	-1.917439	-1.371091
<b>sigma2</b>						
_cons	.7437941	.0147903	50.29	0.000	.7148055	.7727826

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.1157943	.0445391	-2.60	0.009	-.2030893	-.0284993
cde	-.0971573	.0466445	-2.08	0.037	-.1885789	-.0057357
intref	.001272	.0011886	1.07	0.285	-.0010577	.0036017
intmed	-.011634	.0086964	-1.34	0.181	-.0286787	.0054107
pie	-.0082749	.0035391	-2.34	0.019	-.0152113	-.0013385

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zMD_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): zgdff15
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.57 1.535 .03183 2.603 -.008738 533.7

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6589.1282
Iteration 1: Log likelihood = -6589.1282

```

Linear regression (Maximum Likelihood)

Log likelihood = -6589.1282

Number of obs = 5,058

Wald chi2(9) = 1334.22

Prob > chi2 = 0.0000

zMD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0635316	.0450595	1.41	0.159	-.0247834	.1518466
zgdf15	.0376641	.0152321	2.47	0.013	.0078097	.0675185
_poororalhealXzgdf15_000	.0610588	.040894	1.49	0.135	-.0190919	.1412095
AGE	.0530358	.0019466	27.25	0.000	.0492206	.056851
SEX	-.0831113	.0257908	-3.22	0.001	-.1336604	-.0325622
NonWhite	-.1977723	.0717091	-2.76	0.006	-.3383195	-.0572251
householdsize	-.0214049	.0117062	-1.83	0.067	-.0443486	.0015388
SES	.0209539	.0198325	1.06	0.291	-.0179172	.0598249
LE8_TOTALSCORE	.0000415	.0001399	0.30	0.767	-.0002327	.0003157
_cons	-2.736771	.1458611	-18.76	0.000	-3.022654	-2.450889
sigma2						
_cons	.7925904	.0157607	50.29	0.000	.7617	.8234807

-> Model for the mediator

Iteration 0: Log likelihood = -6428.4297

Iteration 1: Log likelihood = -6428.4297

Linear regression (Maximum Likelihood)

Number of obs = 5,058

Wald chi2(7) = 1740.92

Log likelihood = -6428.4297

Prob > chi2 = 0.0000

zgdf15	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.1977713	.039994	4.95	0.000	.1193846	.2761581
AGE	.0514362	.0017407	29.55	0.000	.0480244	.054848
SEX	-.1437706	.0249022	-5.77	0.000	-.1925781	-.0949631
NonWhite	-.1068199	.0694466	-1.54	0.124	-.2429328	.0292929
householdsize	-.0444247	.0113228	-3.92	0.000	-.066617	-.0222324
SES	-.0613723	.0191889	-3.20	0.001	-.0989819	-.0237627
LE8_TOTALSCORE	-.0015832	.0001337	-11.84	0.000	-.0018453	-.0013212
_cons	-1.644265	.1393772	-11.80	0.000	-1.917439	-1.371091
sigma2						
_cons	.7437941	.0147903	50.29	0.000	.7148055	.7727826

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0817359	.0430299	1.90	0.057	-.0026011	.166073
cde	.0635316	.0450595	1.41	0.159	-.0247834	.1518466
intref	-.0013203	.0011838	-1.12	0.265	-.0036405	.001
intmed	.0120757	.0084483	1.43	0.153	-.0044826	.028634
pie	.0074489	.0033681	2.21	0.027	.0008475	.0140502

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zICVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zgdf15**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.57 1.535 .03183 2.603 -.008738 533.7**

-> Model for the outcome

Iteration 0: Log likelihood = **-6950.6283**  
 Iteration 1: Log likelihood = **-6950.6283**

Linear regression (Maximum Likelihood)      Number of obs = **5,058**  
    Wald chi2(9) = **484.15**  
 Log likelihood = **-6950.6283**                      Prob > chi2 = **0.0000**

zICVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.056422	.0483978	-1.17	0.244	-.1512799	.038436
zgdf15	-.0103143	.0163606	-0.63	0.528	-.0423806	.0217519
_poororalhealXzgdf15_000	-.0403022	.0439237	-0.92	0.359	-.126391	.0457866
AGE	-.03538	.0020908	-16.92	0.000	-.0394778	-.0312822
SEX	-.0242427	.0277016	-0.88	0.381	-.0785368	.0300514
NonWhite	.1409946	.0770218	1.83	0.067	-.0099653	.2919545
householdsize	.015842	.0125734	1.26	0.208	-.0088015	.0404855
SES	.0077599	.0213019	0.36	0.716	-.033991	.0495107
LE8_TOTALSCORE	-.0000904	.0001503	-0.60	0.547	-.0003849	.0002041
_cons	1.979471	.1566675	12.63	0.000	1.672409	2.286534
sigma2						
_cons	.914382	.0181825	50.29	0.000	.878745	.950019

-> Model for the mediator

Iteration 0: Log likelihood = **-6428.4297**  
 Iteration 1: Log likelihood = **-6428.4297**

Linear regression (Maximum Likelihood)      Number of obs = **5,058**  
    Wald chi2(7) = **1740.92**  
 Log likelihood = **-6428.4297**                      Prob > chi2 = **0.0000**

zgdff15	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1977713	.039994	4.95	0.000	.1193846	.2761581
AGE	.0514362	.0017407	29.55	0.000	.0480244	.054848
SEX	-.1437706	.0249022	-5.77	0.000	-.1925781	-.0949631
NonWhite	-.1068199	.0694466	-1.54	0.124	-.2429328	.0292929
householdsize	-.0444247	.0113228	-3.92	0.000	-.066617	-.0222324
SES	-.0613723	.0191889	-3.20	0.001	-.0989819	-.0237627
LE8_TOTALSCORE	-.0015832	.0001337	-11.84	0.000	-.0018453	-.0013212
_cons	-1.644265	.1393772	-11.80	0.000	-1.917439	-1.371091
<b>sigma2</b>						
_cons	.7437941	.0147903	50.29	0.000	.7148055	.7727826

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.065561	.0460812	-1.42	0.155	-.1558785	.0247564
cde	-.056422	.0483978	-1.17	0.244	-.1512799	.038436
intref	.0008714	.0010826	0.80	0.421	-.0012503	.0029932
intmed	-.0079706	.0088351	-0.90	0.367	-.0252871	.0093459
pie	-.0020399	.0032619	-0.63	0.532	-.008433	.0043532

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zISOVF_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): zgdff15
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.57 1.535 .03183 2.603 -.008738 533.7

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6620.2038
Iteration 1: Log likelihood = -6620.2038

```

Linear regression (Maximum Likelihood)

Log likelihood = -6620.2038

Number of obs = 5,058

Wald chi2(9) = 1251.61

Prob > chi2 = 0.0000

zISOVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.0657019	.0453372	1.45	0.147	-.0231574	.1545611
zgdf15	.0546452	.015326	3.57	0.000	.0246068	.0846836
_poororalhealXzgdf15_000	.0531197	.041146	1.29	0.197	-.027525	.1337643
AGE	.0504276	.0019586	25.75	0.000	.0465889	.0542663
SEX	-.0753761	.0259498	-2.90	0.004	-.1262367	-.0245155
NonWhite	-.0928068	.072151	-1.29	0.198	-.2342202	.0486065
householdsize	-.0249699	.0117783	-2.12	0.034	-.048055	-.0018849
SES	.0472893	.0199547	2.37	0.018	.0081787	.0863999
LE8_TOTALSCORE	-.0000825	.0001408	-0.59	0.558	-.0003584	.0001934
_cons	-2.533249	.14676	-17.26	0.000	-2.820894	-2.245605
<b>sigma2</b>						
_cons	.8023896	.0159555	50.29	0.000	.7711173	.8336618

-> Model for the mediator

Iteration 0: Log likelihood = -6428.4297

Iteration 1: Log likelihood = -6428.4297

Linear regression (Maximum Likelihood)

Number of obs = 5,058

Wald chi2(7) = 1740.92

Log likelihood = -6428.4297

Prob > chi2 = 0.0000

zgdf15	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1977713	.039994	4.95	0.000	.1193846	.2761581
AGE	.0514362	.0017407	29.55	0.000	.0480244	.054848
SEX	-.1437706	.0249022	-5.77	0.000	-.1925781	-.0949631
NonWhite	-.1068199	.0694466	-1.54	0.124	-.2429328	.0292929
householdsize	-.0444247	.0113228	-3.92	0.000	-.066617	-.0222324
SES	-.0613723	.0191889	-3.20	0.001	-.0989819	-.0237627
LE8_TOTALSCORE	-.0015832	.0001337	-11.84	0.000	-.0018453	-.0013212
_cons	-1.644265	.1393772	-11.80	0.000	-1.917439	-1.371091
<b>sigma2</b>						
_cons	.7437941	.0147903	50.29	0.000	.7148055	.7727826

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0858661	.043327	1.98	0.048	.0009467	.1707855
cde	.0657019	.0453372	1.45	0.147	-.0231574	.1545611
intref	-.0011486	.0011227	-1.02	0.306	-.003349	.0010518
intmed	.0105055	.0084102	1.25	0.212	-.0059782	.0269893
pie	.0108073	.0037368	2.89	0.004	.0034833	.0181312

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zOD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zgdf15**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.57 1.535 .03183 2.603 -.008738 533.7**

-> Model for the outcome

Iteration 0: Log likelihood = **-7059.2018**  
 Iteration 1: Log likelihood = **-7059.2018**

Linear regression (Maximum Likelihood)      Number of obs = **5,058**  
    Wald chi2(9) = **256.29**  
 Log likelihood = **-7059.2018**                      Prob > chi2 = **0.0000**

zOD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0339456	.0494479	0.69	0.492	-.0629706	.1308618
zgdf15	.0554953	.0167156	3.32	0.001	.0227333	.0882573
_poororalhealXzgdf15_000	.0476627	.0448767	1.06	0.288	-.0402941	.1356194
AGE	.0185098	.0021361	8.67	0.000	.0143231	.0226966
SEX	.0445678	.0283026	1.57	0.115	-.0109044	.1000399
NonWhite	.1113047	.078693	1.41	0.157	-.0429307	.2655401
householdsize	-.0068306	.0128463	-0.53	0.595	-.0320089	.0183476
SES	-.0513853	.0217641	-2.36	0.018	-.0940421	-.0087286
LE8_TOTALSCORE	-.0007764	.0001535	-5.06	0.000	-.0010773	-.0004755
_cons	-.6551452	.1600668	-4.09	0.000	-.9688703	-.34142
sigma2						
_cons	.9544926	.0189801	50.29	0.000	.9172923	.9916928

-> Model for the mediator

Iteration 0: Log likelihood = **-6428.4297**  
 Iteration 1: Log likelihood = **-6428.4297**

Linear regression (Maximum Likelihood)      Number of obs = **5,058**  
    Wald chi2(7) = **1740.92**  
 Log likelihood = **-6428.4297**                      Prob > chi2 = **0.0000**

zgdfl5	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1977713	.039994	4.95	0.000	.1193846	.2761581
AGE	.0514362	.0017407	29.55	0.000	.0480244	.054848
SEX	-.1437706	.0249022	-5.77	0.000	-.1925781	-.0949631
NonWhite	-.1068199	.0694466	-1.54	0.124	-.2429328	.0292929
householdsize	-.0444247	.0113228	-3.92	0.000	-.066617	-.0222324
SES	-.0613723	.0191889	-3.20	0.001	-.0989819	-.0237627
LE8_TOTALSCORE	-.0015832	.0001337	-11.84	0.000	-.0018453	-.0013212
_cons	-1.644265	.1393772	-11.80	0.000	-1.917439	-1.371091
<b>sigma2</b>						
_cons	.7437941	.0147903	50.29	0.000	.7148055	.7727826

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0533167	.0472069	1.13	0.259	-.0392071	.1458405
cde	.0339456	.0494479	0.69	0.492	-.0629706	.1308618
intref	-.0010306	.0011485	-0.90	0.370	-.0032816	.0012205
intmed	.0094263	.0090777	1.04	0.299	-.0083657	.0272183
pie	.0109754	.0039818	2.76	0.006	.0031712	.0187796

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zFA_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): zren
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.56 1.536 .03198 2.604 -.008457 533.7

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6699.5909
Iteration 1: Log likelihood = -6699.5909

```

Linear regression (Maximum Likelihood)

Log likelihood = -6699.5909

Number of obs = 5,003

Wald chi2(9) = 884.44

Prob > chi2 = 0.0000

zFA_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	-.1139755	.0438504	-2.60	0.009	-.1999207	-.0280302
zren	-.0027237	.0149155	-0.18	0.855	-.0319576	.0265102
_poororalhealXzren_000	-.0609114	.0362801	-1.68	0.093	-.132019	.0101962
AGE	-.0443499	.0018731	-23.68	0.000	-.0480212	-.0406787
SEX	-.0905365	.0280119	-3.23	0.001	-.1454389	-.0356341
NonWhite	.0544229	.0746037	0.73	0.466	-.0917977	.2006435
householdsize	.0252589	.0121792	2.07	0.038	.0013881	.0491297
SES	.0498802	.0206755	2.41	0.016	.0093569	.0904035
LE8_TOTALSCORE	.0006873	.0001437	4.78	0.000	.0004056	.000969
_cons	2.137932	.1505813	14.20	0.000	1.842798	2.433066
<b>sigma2</b>						
_cons	.8524441	.0170438	50.01	0.000	.8190389	.8858493

-> Model for the mediator

Iteration 0: Log likelihood = -6831.2259

Iteration 1: Log likelihood = -6831.2259

Linear regression (Maximum Likelihood)

Number of obs = 5,003

Wald chi2(7) = 564.04

Log likelihood = -6831.2259

Prob > chi2 = 0.0000

zren	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.217506	.04416	4.93	0.000	.1309539	.3040581
AGE	.0032349	.0019221	1.68	0.092	-.0005323	.0070021
SEX	-.5887856	.0275136	-21.40	0.000	-.6427112	-.5348599
NonWhite	-.1501861	.0765595	-1.96	0.050	-.3002398	-.0001323
householdsize	-.0196814	.0124939	-1.58	0.115	-.044169	.0048063
SES	-.0808513	.0211929	-3.82	0.000	-.1223887	-.0393139
LE8_TOTALSCORE	-.0001496	.0001475	-1.01	0.311	-.0004388	.0001396
_cons	.8395517	.1540906	5.45	0.000	.5375397	1.141564
<b>sigma2</b>						
_cons	.898503	.0179647	50.01	0.000	.8632929	.9337131

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.1263653	.0431508	-2.93	0.003	-.2109394	-.0417912
cde	-.1139755	.0438504	-2.60	0.009	-.1999207	-.0280302
intref	.0014512	.0012248	1.18	0.236	-.0009495	.0038518
intmed	-.0132486	.008337	-1.59	0.112	-.0295888	.0030916
pie	-.0005924	.0032464	-0.18	0.855	-.0069553	.0057705

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All



-> Summary

Outcome (yvar): **zMD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zren**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.536 .03198 2.604 -.008457 533.7**

-> Model for the outcome

Iteration 0: Log likelihood = **-6519.9088**  
 Iteration 1: Log likelihood = **-6519.9088**

Linear regression (Maximum Likelihood)      Number of obs = **5,003**  
    Wald chi2(9) = **1319.13**  
 Log likelihood = **-6519.9088**                      Prob > chi2 = **0.0000**

zMD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0819744	.0423035	1.94	0.053	-.0009389	.1648877
zren	-.0109766	.0143893	-0.76	0.446	-.0391792	.017226
_poororalhealXzren_000	.0468888	.0350002	1.34	0.180	-.0217103	.1154879
AGE	.055641	.0018071	30.79	0.000	.0520992	.0591828
SEX	-.0909882	.0270237	-3.37	0.001	-.1439538	-.0380227
NonWhite	-.208394	.0719719	-2.90	0.004	-.3494563	-.0673317
householdsize	-.0226052	.0117495	-1.92	0.054	-.0456338	.0004235
SES	.0190169	.0199461	0.95	0.340	-.0200768	.0581106
LE8_TOTALSCORE	7.87e-06	.0001387	0.06	0.955	-.0002639	.0002797
_cons	-2.844494	.1452692	-19.58	0.000	-3.129217	-2.559772
sigma2						
_cons	.7933606	.0158625	50.01	0.000	.7622708	.8244505

-> Model for the mediator

Iteration 0: Log likelihood = **-6831.2259**  
 Iteration 1: Log likelihood = **-6831.2259**

Linear regression (Maximum Likelihood)      Number of obs = **5,003**  
    Wald chi2(7) = **564.04**  
 Log likelihood = **-6831.2259**                      Prob > chi2 = **0.0000**

zren	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.217506	.04416	4.93	0.000	.1309539	.3040581
AGE	.0032349	.0019221	1.68	0.092	-.0005323	.0070021
SEX	-.5887856	.0275136	-21.40	0.000	-.6427112	-.5348599
NonWhite	-.1501861	.0765595	-1.96	0.050	-.3002398	-.0001323
householdsize	-.0196814	.0124939	-1.58	0.115	-.044169	.0048063
SES	-.0808513	.0211929	-3.82	0.000	-.1223887	-.0393139
LE8_TOTALSCORE	-.0001496	.0001475	-1.01	0.311	-.0004388	.0001396
_cons	.8395517	.1540906	5.45	0.000	.5375397	1.141564
sigma2						
_cons	.898503	.0179647	50.01	0.000	.8632929	.9337131

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0886684	.0415773	2.13	0.033	.0071784	.1701584
cde	.0819744	.0423035	1.94	0.053	-.0009389	.1648877
intref	-.0011171	.0010685	-1.05	0.296	-.0032112	.000977
intmed	.0101986	.0078893	1.29	0.196	-.0052642	.0256614
pie	-.0023875	.0031671	-0.75	0.451	-.0085948	.0038199

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zICVF_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): zren
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.56 1.536 .03198 2.604 -.008457 533.7

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6881.213
Iteration 1: Log likelihood = -6881.213

```

Linear regression (Maximum Likelihood)

Log likelihood = -6881.213

Number of obs = 5,003

Wald chi2(9) = 483.78

Prob > chi2 = 0.0000

zICVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	-.0652713	.0454716	-1.44	0.151	-.1543939	.0238514
zren	.017353	.0154669	1.12	0.262	-.0129617	.0476676
_poororalhealXzren_000	-.0477379	.0376213	-1.27	0.204	-.1214743	.0259985
AGE	-.0363042	.0019424	-18.69	0.000	-.0401112	-.0324972
SEX	-.0158202	.0290475	-0.54	0.586	-.0727523	.0411118
NonWhite	.1479504	.0773618	1.91	0.056	-.0036759	.2995767
householdsize	.0183365	.0126294	1.45	0.147	-.0064168	.0430897
SES	.0081931	.0214399	0.38	0.702	-.0338283	.0502145
LE8_TOTALSCORE	-.0001114	.000149	-0.75	0.455	-.0004036	.0001807
_cons	2.020995	.1561483	12.94	0.000	1.71495	2.32704
<b>sigma2</b>						
_cons	.9166383	.0183273	50.01	0.000	.8807175	.952559

-> Model for the mediator

Iteration 0: Log likelihood = -6831.2259

Iteration 1: Log likelihood = -6831.2259

Linear regression (Maximum Likelihood)

Number of obs = 5,003

Wald chi2(7) = 564.04

Log likelihood = -6831.2259

Prob > chi2 = 0.0000

zren	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.217506	.04416	4.93	0.000	.1309539	.3040581
AGE	.0032349	.0019221	1.68	0.092	-.0005323	.0070021
SEX	-.5887856	.0275136	-21.40	0.000	-.6427112	-.5348599
NonWhite	-.1501861	.0765595	-1.96	0.050	-.3002398	-.0001323
householdsize	-.0196814	.0124939	-1.58	0.115	-.044169	.0048063
SES	-.0808513	.0211929	-3.82	0.000	-.1223887	-.0393139
LE8_TOTALSCORE	-.0001496	.0001475	-1.01	0.311	-.0004388	.0001396
_cons	.8395517	.1540906	5.45	0.000	.5375397	1.141564
<b>sigma2</b>						
_cons	.898503	.0179647	50.01	0.000	.8632929	.9337131

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.0707428	.0446804	-1.58	0.113	-.1583148	.0168291
cde	-.0652713	.0454716	-1.44	0.151	-.1543939	.0238514
intref	.0011373	.0011251	1.01	0.312	-.0010679	.0033426
intmed	-.0103833	.0084501	-1.23	0.219	-.0269451	.0061785
pie	.0037744	.0034503	1.09	0.274	-.0029881	.0105369

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zISOVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zren**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.536 .03198 2.604 -.008457 533.7**

-> Model for the outcome

Iteration 0: Log likelihood = **-6554.6453**  
 Iteration 1: Log likelihood = **-6554.6453**

Linear regression (Maximum Likelihood)      Number of obs = **5,003**  
    Wald chi2(9) = **1223.61**  
 Log likelihood = **-6554.6453**                      Prob > chi2 = **0.0000**

zISOVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0846814	.0425982	1.99	0.047	.0011904	.1681724
zren	-.002374	.0144896	-0.16	0.870	-.0307731	.0260251
_poororalhealXzren_000	.0308857	.035244	0.88	0.381	-.0381913	.0999628
AGE	.0538792	.0018196	29.61	0.000	.0503127	.0574456
SEX	-.0815935	.027212	-3.00	0.003	-.1349281	-.028259
NonWhite	-.1025396	.0724733	-1.41	0.157	-.2445847	.0395055
householdsize	-.0245515	.0118314	-2.08	0.038	-.0477406	-.0013624
SES	.0430781	.0200851	2.14	0.032	.003712	.0824442
LE8_TOTALSCORE	-.0001695	.0001396	-1.21	0.225	-.0004431	.0001042
_cons	-2.665525	.1462813	-18.22	0.000	-2.952231	-2.378819
sigma2						
_cons	.8044543	.0160843	50.01	0.000	.7729297	.8359789

-> Model for the mediator

Iteration 0: Log likelihood = **-6831.2259**  
 Iteration 1: Log likelihood = **-6831.2259**

Linear regression (Maximum Likelihood)      Number of obs = **5,003**  
    Wald chi2(7) = **564.04**  
 Log likelihood = **-6831.2259**                      Prob > chi2 = **0.0000**

zren	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.217506	.04416	4.93	0.000	.1309539	.3040581
AGE	.0032349	.0019221	1.68	0.092	-.0005323	.0070021
SEX	-.5887856	.0275136	-21.40	0.000	-.6427112	-.5348599
NonWhite	-.1501861	.0765595	-1.96	0.050	-.3002398	-.0001323
householdsize	-.0196814	.0124939	-1.58	0.115	-.044169	.0048063
SES	-.0808513	.0211929	-3.82	0.000	-.1223887	-.0393139
LE8_TOTALSCORE	-.0001496	.0001475	-1.01	0.311	-.0004388	.0001396
_cons	.8395517	.1540906	5.45	0.000	.5375397	1.141564
sigma2						
_cons	.898503	.0179647	50.01	0.000	.8632929	.9337131

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0901471	.0418566	2.15	0.031	.0081097	.1721844
cde	.0846814	.0425982	1.99	0.047	.0011904	.1681724
intref	-.0007358	.000948	-0.78	0.438	-.0025939	.0011222
intmed	.0067178	.0077862	0.86	0.388	-.0085428	.0219785
pie	-.0005164	.0031533	-0.16	0.870	-.0066967	.005664

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome      (yvar):  zOD_mean
Exposure     (avar):  poororalhealth_sev
Mediator      (mvar):  zren
Covariates    (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0):          0
Actual exposure level   (a1):          1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c):    54.56 1.536 .03198 2.604 -.008457 533.7

```

-> Model for the outcome

```

Iteration 0:  Log likelihood = -6995.3825
Iteration 1:  Log likelihood = -6995.3825

```

```

Linear regression (Maximum Likelihood)          Number of obs = 5,003
                                                Wald chi2(9) = 242.60
Log likelihood = -6995.3825                     Prob > chi2 = 0.0000

```

zOD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.0467195	.0465212	1.00	0.315	-.0444603	.1378993
zren	.0325305	.015824	2.06	0.040	.0015161	.0635449
_poororalhealXzren_000	.0390125	.0384897	1.01	0.311	-.0364259	.114451
AGE	.0214415	.0019872	10.79	0.000	.0175467	.0253364
SEX	.059525	.029718	2.00	0.045	.0012788	.1177712
NonWhite	.113797	.0791475	1.44	0.150	-.0413292	.2689232
householdsize	-.0076352	.012921	-0.59	0.555	-.0329598	.0176894
SES	-.0527379	.0219348	-2.40	0.016	-.0957293	-.0097465
LE8_TOTALSCORE	-.0008498	.0001525	-5.57	0.000	-.0011486	-.0005509
_cons	-.7969152	.1597526	-4.99	0.000	-1.110024	-.4838059
<b>sigma2</b>						
_cons	.9594434	.0191831	50.01	0.000	.9218452	.9970416

-> Model for the mediator

Iteration 0: Log likelihood = -6831.2259

Iteration 1: Log likelihood = -6831.2259

Linear regression (Maximum Likelihood)

Number of obs = 5,003

Wald chi2(7) = 564.04

Log likelihood = -6831.2259

Prob > chi2 = 0.0000

zren	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.217506	.04416	4.93	0.000	.1309539	.3040581
AGE	.0032349	.0019221	1.68	0.092	-.0005323	.0070021
SEX	-.5887856	.0275136	-21.40	0.000	-.6427112	-.5348599
NonWhite	-.1501861	.0765595	-1.96	0.050	-.3002398	-.0001323
householdsize	-.0196814	.0124939	-1.58	0.115	-.044169	.0048063
SES	-.0808513	.0211929	-3.82	0.000	-.1223887	-.0393139
LE8_TOTALSCORE	-.0001496	.0001475	-1.01	0.311	-.0004388	.0001396
_cons	.8395517	.1540906	5.45	0.000	.5375397	1.141564
<b>sigma2</b>						
_cons	.898503	.0179647	50.01	0.000	.8632929	.9337131

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0613511	.0457923	1.34	0.180	-.0284003	.1511024
cde	.0467195	.0465212	1.00	0.315	-.0444603	.1378993
intref	-.0009294	.0010723	-0.87	0.386	-.0030311	.0011722
intmed	.0084855	.0085472	0.99	0.321	-.0082667	.0252376
pie	.0070756	.0037296	1.90	0.058	-.0002342	.0143854

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zFA\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zrnase6**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **55.46 1.532 .03074 2.561 .002038 532.7**

-> Model for the outcome

Iteration 0: Log likelihood = **-4760.656**  
 Iteration 1: Log likelihood = **-4760.656**

Linear regression (Maximum Likelihood)      Number of obs = **3,481**  
    Wald chi2(9) = **548.91**  
 Log likelihood = **-4760.656**                      Prob > chi2 = **0.0000**

zFA_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.1336674	.0535783	-2.49	0.013	-.2386789	-.028656
zrnase6	.0010701	.0180704	0.06	0.953	-.0343473	.0364875
_poororalhealXzrnase6_000	-.0501473	.0482225	-1.04	0.298	-.1446617	.044367
AGE	-.0437948	.0023706	-18.47	0.000	-.0484411	-.0391484
SEX	-.0797926	.0332805	-2.40	0.017	-.1450212	-.0145639
NonWhite	.0293374	.0940355	0.31	0.755	-.1549687	.2136435
householdsize	.0259293	.0155485	1.67	0.095	-.0045451	.0564038
SES	.0554549	.0255082	2.17	0.030	.0054597	.1054501
LE8_TOTALSCORE	.0005837	.0001838	3.18	0.001	.0002234	.0009439
_cons	2.124201	.1881021	11.29	0.000	1.755527	2.492874
sigma2						
_cons	.9024393	.0216312	41.72	0.000	.8600429	.9448357

-> Model for the mediator

Iteration 0: Log likelihood = **-4761.9464**  
 Iteration 1: Log likelihood = **-4761.9464**

Linear regression (Maximum Likelihood)      Number of obs = **3,481**  
    Wald chi2(7) = **372.36**  
 Log likelihood = **-4761.9464**                      Prob > chi2 = **0.0000**

zrnase6	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.2508967	.0513496	4.89	0.000	.1502534	.3515401
AGE	.0144225	.0023589	6.11	0.000	.0097992	.0190458
SEX	-.2013272	.0331117	-6.08	0.000	-.266225	-.1364294
NonWhite	-.2038598	.094002	-2.17	0.030	-.3881003	-.0196192
householdsize	-.0274865	.0155462	-1.77	0.077	-.0579564	.0029835
SES	-.0777415	.0254807	-3.05	0.002	-.1276827	-.0278003
LE8_TOTALSCORE	-.0020476	.0001806	-11.34	0.000	-.0024016	-.0016937
_cons	.6464215	.1878526	3.44	0.001	.2782371	1.014606
<b>sigma2</b>						
_cons	.9031086	.0216473	41.72	0.000	.8606807	.9455364

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.1444988	.0516954	-2.80	0.005	-.2458199	-.0431778
cde	-.1336674	.0535783	-2.49	0.013	-.2386789	-.028656
intref	.0014819	.0016659	0.89	0.374	-.0017831	.004747
intmed	-.0125818	.0123699	-1.02	0.309	-.0368263	.0116627
pie	.0002685	.0045341	0.06	0.953	-.0086183	.0091552

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zMD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zrnase6**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **55.46 1.532 .03074 2.561 .002038 532.7**

-> Model for the outcome

Iteration 0: Log likelihood = **-4684.9913**  
 Iteration 1: Log likelihood = **-4684.9913**

Linear regression (Maximum Likelihood)

Log likelihood = **-4684.9913**

Number of obs = **3,481**

Wald chi2(9) = **834.13**

Prob > chi2 = **0.0000**



zMD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0849647	.0524262	1.62	0.105	-.0177888	.1877182
zrnase6	-.0231925	.0176819	-1.31	0.190	-.0578483	.0114634
_poororalhealXzrnase6_000	.0756563	.0471856	1.60	0.109	-.0168258	.1681384
AGE	.0566441	.0023197	24.42	0.000	.0520976	.0611905
SEX	-.1091777	.0325649	-3.35	0.001	-.1730039	-.0453516
NonWhite	-.1452902	.0920135	-1.58	0.114	-.3256334	.035053
householdsize	-.0188465	.0152142	-1.24	0.215	-.0486657	.0109727
SES	.0098431	.0249598	0.39	0.693	-.0390771	.0587634
LE8_TOTALSCORE	.0000114	.0001799	0.06	0.949	-.0003411	.000364
_cons	-2.86187	.1840576	-15.55	0.000	-3.222616	-2.501124
sigma2						
_cons	.8640481	.020711	41.72	0.000	.8234553	.9046409

-> Model for the mediator

Iteration 0: Log likelihood = -4761.9464

Iteration 1: Log likelihood = -4761.9464

Linear regression (Maximum Likelihood)

Number of obs = 3,481

Wald chi2(7) = 372.36

Log likelihood = -4761.9464

Prob > chi2 = 0.0000

zrnase6	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.2508967	.0513496	4.89	0.000	.1502534	.3515401
AGE	.0144225	.0023589	6.11	0.000	.0097992	.0190458
SEX	-.2013272	.0331117	-6.08	0.000	-.266225	-.1364294
NonWhite	-.2038598	.094002	-2.17	0.030	-.3881003	-.0196192
householdsize	-.0274865	.0155462	-1.77	0.077	-.0579564	.0029835
SES	-.0777415	.0254807	-3.05	0.002	-.1276827	-.0278003
LE8_TOTALSCORE	-.0020476	.0001806	-11.34	0.000	-.0024016	-.0016937
_cons	.6464215	.1878526	3.44	0.001	.2782371	1.014606
sigma2						
_cons	.9031086	.0216473	41.72	0.000	.8606807	.9455364

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.095892	.0505953	1.90	0.058	-.0032729	.1950568
cde	.0849647	.0524262	1.62	0.105	-.0177888	.1877182
intref	-.0022357	.0019075	-1.17	0.241	-.0059744	.001503
intmed	.0189819	.0124598	1.52	0.128	-.0054389	.0434028
pie	-.0058189	.0045934	-1.27	0.205	-.0148218	.003184

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zICVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zrnase6**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **55.46 1.532 .03074 2.561 .002038 532.7**

-> Model for the outcome

Iteration 0: Log likelihood = **-4863.0065**  
 Iteration 1: Log likelihood = **-4863.0065**

Linear regression (Maximum Likelihood)      Number of obs = **3,481**  
    Wald chi2(9) = **330.54**  
 Log likelihood = **-4863.0065**                      Prob > chi2 = **0.0000**

zICVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.0713864	.055177	-1.29	0.196	-.1795314	.0367585
zrnase6	.0148555	.0186096	0.80	0.425	-.0216187	.0513298
_poororalhealXzrnase6_000	-.0587813	.0496614	-1.18	0.237	-.1561159	.0385533
AGE	-.0374419	.0024414	-15.34	0.000	-.0422269	-.0326569
SEX	-.001568	.0342736	-0.05	0.964	-.068743	.0656071
NonWhite	.0776365	.0968414	0.80	0.423	-.1121692	.2674421
householdsize	.0180004	.0160124	1.12	0.261	-.0133834	.0493843
SES	.0153755	.0262694	0.59	0.558	-.0361115	.0668626
LE8_TOTALSCORE	-.0001753	.0001893	-0.93	0.354	-.0005464	.0001957
_cons	2.084129	.193715	10.76	0.000	1.704455	2.463804
sigma2						
_cons	.9570988	.0229414	41.72	0.000	.9121345	1.002063

-> Model for the mediator

Iteration 0: Log likelihood = **-4761.9464**  
 Iteration 1: Log likelihood = **-4761.9464**

Linear regression (Maximum Likelihood)      Number of obs = **3,481**  
    Wald chi2(7) = **372.36**  
 Log likelihood = **-4761.9464**                      Prob > chi2 = **0.0000**

zrnase6	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.2508967	.0513496	4.89	0.000	.1502534	.3515401
AGE	.0144225	.0023589	6.11	0.000	.0097992	.0190458
SEX	-.2013272	.0331117	-6.08	0.000	-.266225	-.1364294
NonWhite	-.2038598	.094002	-2.17	0.030	-.3881003	-.0196192
householdsize	-.0274865	.0155462	-1.77	0.077	-.0579564	.0029835
SES	-.0777415	.0254807	-3.05	0.002	-.1276827	-.0278003
LE8_TOTALSCORE	-.0020476	.0001806	-11.34	0.000	-.0024016	-.0016937
_cons	.6464215	.1878526	3.44	0.001	.2782371	1.014606
<b>sigma2</b>						
_cons	.9031086	.0216473	41.72	0.000	.8606807	.9455364

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.0806702	.0532248	-1.52	0.130	-.1849889	.0236485
cde	-.0713864	.055177	-1.29	0.196	-.1795314	.0367585
intref	.0017371	.0017823	0.97	0.330	-.0017562	.0052303
intmed	-.014748	.0128203	-1.15	0.250	-.0398753	.0103793
pie	.0037272	.004731	0.79	0.431	-.0055454	.0129998

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): zISOVF\_mean  
 Exposure (avar): poororalhealth\_sev  
 Mediator (mvar): zrnase6  
 Covariates (cvars): AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE

Model for the outcome (yreg): linear  
 Model for the mediator (mreg): linear

Referent exposure level (a0): 0  
 Actual exposure level (a1): 1  
 Mediator level for the decomposition (m): 0  
 Fixed values of the covariates (c): 55.46 1.532 .03074 2.561 .002038 532.7

-> Model for the outcome

Iteration 0: Log likelihood = -4669.0992  
 Iteration 1: Log likelihood = -4669.0992

Linear regression (Maximum Likelihood)

Log likelihood = -4669.0992

Number of obs = 3,481

Wald chi2(9) = 750.33

Prob > chi2 = 0.0000

zISOVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0941517	.0521874	1.80	0.071	-.0081338	.1964372
zrnase6	-.0268495	.0176013	-1.53	0.127	-.0613475	.0076485
_poororalhealXzrnase6_000	.0534174	.0469707	1.14	0.255	-.0386435	.1454782
AGE	.053983	.0023091	23.38	0.000	.0494573	.0585088
SEX	-.1043263	.0324166	-3.22	0.001	-.1678617	-.0407909
NonWhite	-.0851602	.0915944	-0.93	0.352	-.2646819	.0943615
householdsize	-.0119558	.0151449	-0.79	0.430	-.0416391	.0177276
SES	.0305128	.0248461	1.23	0.219	-.0181846	.0792102
LE8_TOTALSCORE	-.0001647	.0001791	-0.92	0.358	-.0005157	.0001862
_cons	-2.652265	.1832192	-14.48	0.000	-3.011368	-2.293162
sigma2						
_cons	.8561946	.0205227	41.72	0.000	.8159708	.8964185

-> Model for the mediator

Iteration 0: Log likelihood = -4761.9464

Iteration 1: Log likelihood = -4761.9464

Linear regression (Maximum Likelihood)

Number of obs = 3,481

Wald chi2(7) = 372.36

Log likelihood = -4761.9464

Prob > chi2 = 0.0000

zrnase6	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.2508967	.0513496	4.89	0.000	.1502534	.3515401
AGE	.0144225	.0023589	6.11	0.000	.0097992	.0190458
SEX	-.2013272	.0331117	-6.08	0.000	-.266225	-.1364294
NonWhite	-.2038598	.094002	-2.17	0.030	-.3881003	-.0196192
householdsize	-.0274865	.0155462	-1.77	0.077	-.0579564	.0029835
SES	-.0777415	.0254807	-3.05	0.002	-.1276827	-.0278003
LE8_TOTALSCORE	-.0020476	.0001806	-11.34	0.000	-.0024016	-.0016937
_cons	.6464215	.1878526	3.44	0.001	.2782371	1.014606
sigma2						
_cons	.9031086	.0216473	41.72	0.000	.8606807	.9455364

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0992389	.0503191	1.97	0.049	.0006154	.1978625
cde	.0941517	.0521874	1.80	0.071	-.0081338	.1964372
intref	-.0015785	.0016647	-0.95	0.343	-.0048414	.0016843
intmed	.0134022	.0120998	1.11	0.268	-.0103129	.0371174
pie	-.0067365	.0046263	-1.46	0.145	-.0158039	.002331

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zOD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zrnase6**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **55.46 1.532 .03074 2.561 .002038 532.7**

-> Model for the outcome

Iteration 0: Log likelihood = **-5044.3241**  
 Iteration 1: Log likelihood = **-5044.3241**

Linear regression (Maximum Likelihood)      Number of obs = **3,481**  
    Wald chi2(9) = **124.09**  
 Log likelihood = **-5044.3241**                      Prob > chi2 = **0.0000**

zOD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0637862	.0581272	1.10	0.272	-.0501411	.1777134
zrnase6	.0091749	.0196047	0.47	0.640	-.0292495	.0475994
_poororalhealXzrnase6_000	.0118475	.0523167	0.23	0.821	-.0906914	.1143864
AGE	.0200328	.0025719	7.79	0.000	.0149919	.0250736
SEX	.046511	.0361062	1.29	0.198	-.0242557	.1172778
NonWhite	.0105488	.1020193	0.10	0.918	-.1894054	.210503
householdsize	-.0063698	.0168686	-0.38	0.706	-.0394317	.026692
SES	-.0610821	.027674	-2.21	0.027	-.1153221	-.0068421
LE8_TOTALSCORE	-.0007291	.0001994	-3.66	0.000	-.00112	-.0003382
_cons	-.7548045	.2040725	-3.70	0.000	-1.154779	-.3548296
sigma2						
_cons	1.062184	.0254602	41.72	0.000	1.012283	1.112085

-> Model for the mediator

Iteration 0: Log likelihood = **-4761.9464**  
 Iteration 1: Log likelihood = **-4761.9464**

Linear regression (Maximum Likelihood)      Number of obs = **3,481**  
    Wald chi2(7) = **372.36**  
 Log likelihood = **-4761.9464**                      Prob > chi2 = **0.0000**

zrnase6	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.2508967	.0513496	4.89	0.000	.1502534	.3515401
AGE	.0144225	.0023589	6.11	0.000	.0097992	.0190458
SEX	-.2013272	.0331117	-6.08	0.000	-.266225	-.1364294
NonWhite	-.2038598	.094002	-2.17	0.030	-.3881003	-.0196192
householdsize	-.0274865	.0155462	-1.77	0.077	-.0579564	.0029835
SES	-.0777415	.0254807	-3.05	0.002	-.1276827	-.0278003
LE8_TOTALSCORE	-.0020476	.0001806	-11.34	0.000	-.0024016	-.0016937
_cons	.6464215	.1878526	3.44	0.001	.2782371	1.014606
<b>sigma2</b>						
_cons	.9031086	.0216473	41.72	0.000	.8606807	.9455364

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0687105	.0560354	1.23	0.220	-.0411169	.1785379
cde	.0637862	.0581272	1.10	0.272	-.0501411	.1777134
intref	-.0003501	.0015594	-0.22	0.822	-.0034065	.0027063
intmed	.0029725	.0131402	0.23	0.821	-.0227818	.0287268
pie	.002302	.0049413	0.47	0.641	-.0073827	.0119867

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zFA\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **ztnfrsf1a**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.535 .0313 2.605 -.01034 533.3**

-> Model for the outcome

Iteration 0: Log likelihood = **-6660.2837**  
 Iteration 1: Log likelihood = **-6660.2837**

Linear regression (Maximum Likelihood)

Log likelihood = **-6660.2837**

Number of obs = **4,984**

Wald chi2(9) = **877.70**

Prob > chi2 = **0.0000**

zFA_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	-.1199585	.044885	-2.67	0.008	-.2079314	-.0319855
ztnfrsf1a	-.009982	.0149039	-0.67	0.503	-.039193	.019229
_poororalhealXztnfrsf1a_000	-.0157387	.0382116	-0.41	0.680	-.090632	.0591547
AGE	-.0437351	.0018958	-23.07	0.000	-.0474507	-.0400194
SEX	-.0876057	.0269149	-3.25	0.001	-.1403579	-.0348536
NonWhite	.0854518	.0753513	1.13	0.257	-.0622341	.2331377
householdsize	.0246779	.0121638	2.03	0.042	.0008372	.0485185
SES	.0503987	.0206269	2.44	0.015	.0099707	.0908266
LE8_TOTALSCORE	.0007238	.000147	4.92	0.000	.0004357	.0010119
_cons	2.083391	.1498142	13.91	0.000	1.789761	2.377022
<b>sigma2</b>						
_cons	.8477148	.0169815	49.92	0.000	.8144317	.8809979

-> Model for the mediator

Iteration 0: Log likelihood = -6746.0618

Iteration 1: Log likelihood = -6746.0618

Linear regression (Maximum Likelihood)

Number of obs = 4,984

Wald chi2(7) = 695.26

Log likelihood = -6746.0618

Prob > chi2 = 0.0000

ztnfrsf1a	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1975196	.0439025	4.50	0.000	.1114723	.2835669
AGE	.0228014	.0019015	11.99	0.000	.0190746	.0265281
SEX	-.1746006	.0272618	-6.40	0.000	-.2280328	-.1211684
NonWhite	-.1554696	.0766261	-2.03	0.042	-.3056539	-.0052852
householdsize	-.0248433	.0123697	-2.01	0.045	-.0490875	-.000599
SES	-.0737984	.0209583	-3.52	0.000	-.114876	-.0327209
LE8_TOTALSCORE	-.0021263	.0001465	-14.52	0.000	-.0024133	-.0018392
_cons	.205454	.1523765	1.35	0.178	-.0931985	.5041064
<b>sigma2</b>						
_cons	.8774023	.0175762	49.92	0.000	.8429536	.911851

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.124702	.0436324	-2.86	0.004	-.2102198	-.0391841
cde	-.1199585	.044885	-2.67	0.008	-.2079314	-.0319855
intref	.0003368	.0008473	0.40	0.691	-.0013239	.0019975
intmed	-.0031087	.0075791	-0.41	0.682	-.0179635	.0117461
pie	-.0019716	.0029762	-0.66	0.508	-.007805	.0038617

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zMD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **ztnfrsf1a**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.535 .0313 2.605 -.01034 533.3**

-> Model for the outcome

Iteration 0: Log likelihood = **-6477.9517**  
 Iteration 1: Log likelihood = **-6477.9517**

Linear regression (Maximum Likelihood)

Number of obs = **4,984**

Wald chi2(9) = **1316.79**

Log likelihood = **-6477.9517**

Prob > chi2 = **0.0000**

zMD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0861274	.0432726	1.99	0.047	.0013146	.1709401
ztnfrsf1a	-.0196456	.0143685	-1.37	0.172	-.0478074	.0085161
_poororalhealXztnfrsf1a_000	.0366666	.0368389	1.00	0.320	-.0355364	.1088696
AGE	.0554392	.0018277	30.33	0.000	.051857	.0590214
SEX	-.0958104	.025948	-3.69	0.000	-.1466676	-.0449533
NonWhite	-.2391542	.0726445	-3.29	0.001	-.3815349	-.0967735
householdsize	-.0233466	.0117269	-1.99	0.046	-.0463308	-.0003623
SES	.016898	.0198859	0.85	0.395	-.0220777	.0558737
LE8_TOTALSCORE	-.0000921	.0001417	-0.65	0.516	-.0003699	.0001856
_cons	-2.770926	.1444325	-19.18	0.000	-3.054008	-2.487843
sigma2						
_cons	.7879048	.0157834	49.92	0.000	.75697	.8188397

-> Model for the mediator

Iteration 0: Log likelihood = **-6746.0618**  
 Iteration 1: Log likelihood = **-6746.0618**

Linear regression (Maximum Likelihood)

Number of obs = **4,984**

Wald chi2(7) = **695.26**

Log likelihood = **-6746.0618**

Prob > chi2 = **0.0000**



ztnfrsf1a	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1975196	.0439025	4.50	0.000	.1114723	.2835669
AGE	.0228014	.0019015	11.99	0.000	.0190746	.0265281
SEX	-.1746006	.0272618	-6.40	0.000	-.2280328	-.1211684
NonWhite	-.1554696	.0766261	-2.03	0.042	-.3056539	-.0052852
householdsize	-.0248433	.0123697	-2.01	0.045	-.0490875	-.000599
SES	-.0737984	.0209583	-3.52	0.000	-.114876	-.0327209
LE8_TOTALSCORE	-.0021263	.0001465	-14.52	0.000	-.0024133	-.0018392
_cons	.205454	.1523765	1.35	0.178	-.0931985	.5041064
<b>sigma2</b>						
_cons	.8774023	.0175762	49.92	0.000	.8429536	.911851

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0887047	.0420589	2.11	0.035	.0062707	.1711386
cde	.0861274	.0432726	1.99	0.047	.0013146	.1709401
intref	-.0007847	.0009427	-0.83	0.405	-.0026323	.0010629
intmed	.0072424	.0074523	0.97	0.331	-.007364	.0218487
pie	-.0038804	.0029662	-1.31	0.191	-.0096941	.0019333

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zICVF_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): ztnfrsf1a
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.56 1.535 .0313 2.605 -.01034 533.3

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6842.3932
Iteration 1: Log likelihood = -6842.3932

```

```

Linear regression (Maximum Likelihood)           Number of obs = 4,984
                                                    Wald chi2(9) = 476.15
Log likelihood = -6842.3932                      Prob > chi2 = 0.0000

```

zICVF_mean		Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu							
poororalhealth_sev		-.0613565	.0465554	-1.32	0.188	-.1526033	.0298903
ztnfrsf1a		.0164467	.0154585	1.06	0.287	-.0138514	.0467449
_poororalhealXztnfrsf1a_000		-.0373931	.0396336	-0.94	0.345	-.1150736	.0402873
AGE		-.0360565	.0019663	-18.34	0.000	-.0399105	-.0322026
SEX		-.0140278	.0279165	-0.50	0.615	-.0687431	.0406875
NonWhite		.1769369	.0781555	2.26	0.024	.0237549	.3301189
householdsize		.0177554	.0126165	1.41	0.159	-.0069725	.0424833
SES		.0090675	.0213945	0.42	0.672	-.032865	.051
LE8_TOTALSCORE		-.0000281	.0001525	-0.18	0.854	-.0003269	.0002707
_cons		1.960289	.1553895	12.62	0.000	1.655731	2.264847
sigma2							
_cons		.9119835	.0182689	49.92	0.000	.876177	.9477899

-> Model for the mediator

Iteration 0: Log likelihood = -6746.0618

Iteration 1: Log likelihood = -6746.0618

Linear regression (Maximum Likelihood)

Number of obs = 4,984

Wald chi2(7) = 695.26

Log likelihood = -6746.0618

Prob > chi2 = 0.0000

ztnfrsf1a	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.1975196	.0439025	4.50	0.000	.1114723	.2835669
AGE	.0228014	.0019015	11.99	0.000	.0190746	.0265281
SEX	-.1746006	.0272618	-6.40	0.000	-.2280328	-.1211684
NonWhite	-.1554696	.0766261	-2.03	0.042	-.3056539	-.0052852
householdsize	-.0248433	.0123697	-2.01	0.045	-.0490875	-.000599
SES	-.0737984	.0209583	-3.52	0.000	-.114876	-.0327209
LE8_TOTALSCORE	-.0021263	.0001465	-14.52	0.000	-.0024133	-.0018392
_cons	.205454	.1523765	1.35	0.178	-.0931985	.5041064
sigma2						
_cons	.8774023	.0175762	49.92	0.000	.8429536	.911851

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.0646936	.0452512	-1.43	0.153	-.1533842	.0239971
cde	-.0613565	.0465554	-1.32	0.188	-.1526033	.0298903
intref	.0008002	.0009986	0.80	0.423	-.001157	.0027575
intmed	-.0073859	.0079987	-0.92	0.356	-.023063	.0082913
pie	.0032486	.0031376	1.04	0.300	-.002901	.0093981

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zISOVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **ztnfrsf1a**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.535 .0313 2.605 -.01034 533.3**

-> Model for the outcome

Iteration 0: Log likelihood = **-6525.5282**  
 Iteration 1: Log likelihood = **-6525.5282**

Linear regression (Maximum Likelihood)

Number of obs = **4,984**

Wald chi2(9) = **1221.76**

Log likelihood = **-6525.5282**

Prob > chi2 = **0.0000**

zISOVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0972734	.0436877	2.23	0.026	.0116472	.1828997
ztnfrsf1a	-.0037118	.0145063	-0.26	0.798	-.0321436	.0247201
_poororalhealXztnfrsf1a_000	.0095194	.0371923	0.26	0.798	-.0633762	.0824149
AGE	.0536841	.0018452	29.09	0.000	.0500676	.0573007
SEX	-.0832829	.0261969	-3.18	0.001	-.1346278	-.0319379
NonWhite	-.1197709	.0733413	-1.63	0.102	-.2635172	.0239755
householdsize	-.025367	.0118394	-2.14	0.032	-.0485717	-.0021622
SES	.0408921	.0200767	2.04	0.042	.0015426	.0802416
LE8_TOTALSCORE	-.0002225	.0001431	-1.56	0.120	-.0005029	.0000579
_cons	-2.623861	.1458179	-17.99	0.000	-2.909659	-2.338063
sigma2						
_cons	.8030918	.0160876	49.92	0.000	.7715607	.8346229

-> Model for the mediator

Iteration 0: Log likelihood = **-6746.0618**  
 Iteration 1: Log likelihood = **-6746.0618**

Linear regression (Maximum Likelihood)

Number of obs = **4,984**

Wald chi2(7) = **695.26**

Log likelihood = **-6746.0618**

Prob > chi2 = **0.0000**

ztnfrsf1a	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1975196	.0439025	4.50	0.000	.1114723	.2835669
AGE	.0228014	.0019015	11.99	0.000	.0190746	.0265281
SEX	-.1746006	.0272618	-6.40	0.000	-.2280328	-.1211684
NonWhite	-.1554696	.0766261	-2.03	0.042	-.3056539	-.0052852
householdsize	-.0248433	.0123697	-2.01	0.045	-.0490875	-.000599
SES	-.0737984	.0209583	-3.52	0.000	-.114876	-.0327209
LE8_TOTALSCORE	-.0021263	.0001465	-14.52	0.000	-.0024133	-.0018392
_cons	.205454	.1523765	1.35	0.178	-.0931985	.5041064
<b>sigma2</b>						
_cons	.8774023	.0175762	49.92	0.000	.8429536	.911851

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0982168	.0424563	2.31	0.021	.0150041	.1814296
cde	.0972734	.0436877	2.23	0.026	.0116472	.1828997
intref	-.0002037	.0008072	-0.25	0.801	-.0017857	.0013783
intmed	.0018803	.0073581	0.26	0.798	-.0125413	.0163018
pie	-.0007331	.0028699	-0.26	0.798	-.0063581	.0048918

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zOD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **ztnfrsf1a**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.535 .0313 2.605 -.01034 533.3**

-> Model for the outcome

Iteration 0: Log likelihood = **-6964.6286**  
 Iteration 1: Log likelihood = **-6964.6286**

Linear regression (Maximum Likelihood)

Log likelihood = **-6964.6286**

Number of obs = **4,984**

Wald chi2(9) = **240.59**

Prob > chi2 = **0.0000**

zOD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.0661125	.0477113	1.39	0.166	-.0273999	.1596249
ztnfrsf1a	.0408246	.0158423	2.58	0.010	.0097742	.071875
_poororalhealXztnfrsf1a_000	-.0403589	.0406177	-0.99	0.320	-.1199681	.0392503
AGE	.0208818	.0020152	10.36	0.000	.0169322	.0248315
SEX	.051591	.0286096	1.80	0.071	-.0044828	.1076648
NonWhite	.106635	.080096	1.33	0.183	-.0503503	.2636203
householdsize	-.00892	.0129298	-0.69	0.490	-.0342619	.0164218
SES	-.0508966	.0219257	-2.32	0.020	-.0938702	-.007923
LE8_TOTALSCORE	-.0007781	.0001562	-4.98	0.000	-.0010844	-.0004719
_cons	-.7904442	.1592476	-4.96	0.000	-1.102564	-.4783246
<b>sigma2</b>						
_cons	.9578326	.0191874	49.92	0.000	.920226	.9954392

-> Model for the mediator

Iteration 0: Log likelihood = -6746.0618

Iteration 1: Log likelihood = -6746.0618

Linear regression (Maximum Likelihood)

Number of obs = 4,984

Wald chi2(7) = 695.26

Log likelihood = -6746.0618

Prob > chi2 = 0.0000

ztnfrsf1a	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1975196	.0439025	4.50	0.000	.1114723	.2835669
AGE	.0228014	.0019015	11.99	0.000	.0190746	.0265281
SEX	-.1746006	.0272618	-6.40	0.000	-.2280328	-.1211684
NonWhite	-.1554696	.0766261	-2.03	0.042	-.3056539	-.0052852
householdsize	-.0248433	.0123697	-2.01	0.045	-.0490875	-.000599
SES	-.0737984	.0209583	-3.52	0.000	-.114876	-.0327209
LE8_TOTALSCORE	-.0021263	.0001465	-14.52	0.000	-.0024133	-.0018392
_cons	.205454	.1523765	1.35	0.178	-.0931985	.5041064
<b>sigma2</b>						
_cons	.8774023	.0175762	49.92	0.000	.8429536	.911851

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0670682	.0463693	1.45	0.148	-.0238139	.1579503
cde	.0661125	.0477113	1.39	0.166	-.0273999	.1596249
intref	.0008637	.0010388	0.83	0.406	-.0011724	.0028998
intmed	-.0079717	.0082161	-0.97	0.332	-.024075	.0081316
pie	.0080637	.0036061	2.24	0.025	.0009958	.0151315

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zFA\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **ztnfrsf1a**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.535 .0313 2.605 -.01034 533.3**

-> Model for the outcome

Iteration 0: Log likelihood = **-6660.2837**  
 Iteration 1: Log likelihood = **-6660.2837**

Linear regression (Maximum Likelihood)      Number of obs = **4,984**  
    Wald chi2(9) = **877.70**  
 Log likelihood = **-6660.2837**                      Prob > chi2 = **0.0000**

zFA_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.1199585	.044885	-2.67	0.008	-.2079314	-.0319855
ztnfrsf1a	-.009982	.0149039	-0.67	0.503	-.039193	.019229
_poororalhealXztnfrsf1a_000	-.0157387	.0382116	-0.41	0.680	-.090632	.0591547
AGE	-.0437351	.0018958	-23.07	0.000	-.0474507	-.0400194
SEX	-.0876057	.0269149	-3.25	0.001	-.1403579	-.0348536
NonWhite	.0854518	.0753513	1.13	0.257	-.0622341	.2331377
householdsize	.0246779	.0121638	2.03	0.042	.0008372	.0485185
SES	.0503987	.0206269	2.44	0.015	.0099707	.0908266
LE8_TOTALSCORE	.0007238	.000147	4.92	0.000	.0004357	.0010119
_cons	2.083391	.1498142	13.91	0.000	1.789761	2.377022
sigma2						
_cons	.8477148	.0169815	49.92	0.000	.8144317	.8809979

-> Model for the mediator

Iteration 0: Log likelihood = **-6746.0618**  
 Iteration 1: Log likelihood = **-6746.0618**

Linear regression (Maximum Likelihood)      Number of obs = **4,984**  
    Wald chi2(7) = **695.26**  
 Log likelihood = **-6746.0618**                      Prob > chi2 = **0.0000**

ztnfrsf1a	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1975196	.0439025	4.50	0.000	.1114723	.2835669
AGE	.0228014	.0019015	11.99	0.000	.0190746	.0265281
SEX	-.1746006	.0272618	-6.40	0.000	-.2280328	-.1211684
NonWhite	-.1554696	.0766261	-2.03	0.042	-.3056539	-.0052852
householdsize	-.0248433	.0123697	-2.01	0.045	-.0490875	-.000599
SES	-.0737984	.0209583	-3.52	0.000	-.114876	-.0327209
LE8_TOTALSCORE	-.0021263	.0001465	-14.52	0.000	-.0024133	-.0018392
_cons	.205454	.1523765	1.35	0.178	-.0931985	.5041064
<b>sigma2</b>						
_cons	.8774023	.0175762	49.92	0.000	.8429536	.911851

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.124702	.0436324	-2.86	0.004	-.2102198	-.0391841
cde	-.1199585	.044885	-2.67	0.008	-.2079314	-.0319855
intref	.0003368	.0008473	0.40	0.691	-.0013239	.0019975
intmed	-.0031087	.0075791	-0.41	0.682	-.0179635	.0117461
pie	-.0019716	.0029762	-0.66	0.508	-.007805	.0038617

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zMD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **ztnfrsf1a**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.535 .0313 2.605 -.01034 533.3**

-> Model for the outcome

Iteration 0: Log likelihood = **-6477.9517**  
 Iteration 1: Log likelihood = **-6477.9517**

Linear regression (Maximum Likelihood)

Log likelihood = **-6477.9517**

Number of obs = **4,984**

Wald chi2(9) = **1316.79**

Prob > chi2 = **0.0000**

zMD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0861274	.0432726	1.99	0.047	.0013146	.1709401
ztnfrsf1a	-.0196456	.0143685	-1.37	0.172	-.0478074	.0085161
_poororalhealXztnfrsf1a_000	.0366666	.0368389	1.00	0.320	-.0355364	.1088696
AGE	.0554392	.0018277	30.33	0.000	.051857	.0590214
SEX	-.0958104	.025948	-3.69	0.000	-.1466676	-.0449533
NonWhite	-.2391542	.0726445	-3.29	0.001	-.3815349	-.0967735
householdsize	-.0233466	.0117269	-1.99	0.046	-.0463308	-.0003623
SES	.016898	.0198859	0.85	0.395	-.0220777	.0558737
LE8_TOTALSCORE	-.0000921	.0001417	-0.65	0.516	-.0003699	.0001856
_cons	-2.770926	.1444325	-19.18	0.000	-3.054008	-2.487843
sigma2						
_cons	.7879048	.0157834	49.92	0.000	.75697	.8188397

-> Model for the mediator

Iteration 0: Log likelihood = -6746.0618

Iteration 1: Log likelihood = -6746.0618

Linear regression (Maximum Likelihood)

Number of obs = 4,984

Wald chi2(7) = 695.26

Log likelihood = -6746.0618

Prob > chi2 = 0.0000

ztnfrsf1a	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.1975196	.0439025	4.50	0.000	.1114723	.2835669
AGE	.0228014	.0019015	11.99	0.000	.0190746	.0265281
SEX	-.1746006	.0272618	-6.40	0.000	-.2280328	-.1211684
NonWhite	-.1554696	.0766261	-2.03	0.042	-.3056539	-.0052852
householdsize	-.0248433	.0123697	-2.01	0.045	-.0490875	-.000599
SES	-.0737984	.0209583	-3.52	0.000	-.114876	-.0327209
LE8_TOTALSCORE	-.0021263	.0001465	-14.52	0.000	-.0024133	-.0018392
_cons	.205454	.1523765	1.35	0.178	-.0931985	.5041064
sigma2						
_cons	.8774023	.0175762	49.92	0.000	.8429536	.911851

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0887047	.0420589	2.11	0.035	.0062707	.1711386
cde	.0861274	.0432726	1.99	0.047	.0013146	.1709401
intref	-.0007847	.0009427	-0.83	0.405	-.0026323	.0010629
intmed	.0072424	.0074523	0.97	0.331	-.007364	.0218487
pie	-.0038804	.0029662	-1.31	0.191	-.0096941	.0019333

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All



-> Summary

Outcome (yvar): **zICVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **ztnfrsf1a**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.535 .0313 2.605 -.01034 533.3**

-> Model for the outcome

Iteration 0: Log likelihood = **-6842.3932**  
 Iteration 1: Log likelihood = **-6842.3932**

Linear regression (Maximum Likelihood)      Number of obs = **4,984**  
    Wald chi2(9) = **476.15**  
 Log likelihood = **-6842.3932**                      Prob > chi2 = **0.0000**

zICVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.0613565	.0465554	-1.32	0.188	-.1526033	.0298903
ztnfrsf1a	.0164467	.0154585	1.06	0.287	-.0138514	.0467449
_poororalhealXztnfrsf1a_000	-.0373931	.0396336	-0.94	0.345	-.1150736	.0402873
AGE	-.0360565	.0019663	-18.34	0.000	-.0399105	-.0322026
SEX	-.0140278	.0279165	-0.50	0.615	-.0687431	.0406875
NonWhite	.1769369	.0781555	2.26	0.024	.0237549	.3301189
householdsize	.0177554	.0126165	1.41	0.159	-.0069725	.0424833
SES	.0090675	.0213945	0.42	0.672	-.032865	.051
LE8_TOTALSCORE	-.0000281	.0001525	-0.18	0.854	-.0003269	.0002707
_cons	1.960289	.1553895	12.62	0.000	1.655731	2.264847
sigma2						
_cons	.9119835	.0182689	49.92	0.000	.876177	.9477899

-> Model for the mediator

Iteration 0: Log likelihood = **-6746.0618**  
 Iteration 1: Log likelihood = **-6746.0618**

Linear regression (Maximum Likelihood)      Number of obs = **4,984**  
    Wald chi2(7) = **695.26**  
 Log likelihood = **-6746.0618**                      Prob > chi2 = **0.0000**

ztnfrsf1a	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1975196	.0439025	4.50	0.000	.1114723	.2835669
AGE	.0228014	.0019015	11.99	0.000	.0190746	.0265281
SEX	-.1746006	.0272618	-6.40	0.000	-.2280328	-.1211684
NonWhite	-.1554696	.0766261	-2.03	0.042	-.3056539	-.0052852
householdsize	-.0248433	.0123697	-2.01	0.045	-.0490875	-.000599
SES	-.0737984	.0209583	-3.52	0.000	-.114876	-.0327209
LE8_TOTALSCORE	-.0021263	.0001465	-14.52	0.000	-.0024133	-.0018392
_cons	.205454	.1523765	1.35	0.178	-.0931985	.5041064
<b>sigma2</b>						
_cons	.8774023	.0175762	49.92	0.000	.8429536	.911851

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.0646936	.0452512	-1.43	0.153	-.1533842	.0239971
cde	-.0613565	.0465554	-1.32	0.188	-.1526033	.0298903
intref	.0008002	.0009986	0.80	0.423	-.001157	.0027575
intmed	-.0073859	.0079987	-0.92	0.356	-.023063	.0082913
pie	.0032486	.0031376	1.04	0.300	-.002901	.0093981

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zISOVF_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): ztnfrsf1a
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.56 1.535 .0313 2.605 -.01034 533.3

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6525.5282
Iteration 1: Log likelihood = -6525.5282

```

Linear regression (Maximum Likelihood)

Number of obs = 4,984

Wald chi2(9) = 1221.76

Log likelihood = -6525.5282

Prob > chi2 = 0.0000

zISOVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0972734	.0436877	2.23	0.026	.0116472	.1828997
ztnfrsf1a	-.0037118	.0145063	-0.26	0.798	-.0321436	.0247201
_poororalhealXztnfrsf1a_000	.0095194	.0371923	0.26	0.798	-.0633762	.0824149
AGE	.0536841	.0018452	29.09	0.000	.0500676	.0573007
SEX	-.0832829	.0261969	-3.18	0.001	-.1346278	-.0319379
NonWhite	-.1197709	.0733413	-1.63	0.102	-.2635172	.0239755
householdsize	-.025367	.0118394	-2.14	0.032	-.0485717	-.0021622
SES	.0408921	.0200767	2.04	0.042	.0015426	.0802416
LE8_TOTALSCORE	-.0002225	.0001431	-1.56	0.120	-.0005029	.0000579
_cons	-2.623861	.1458179	-17.99	0.000	-2.909659	-2.338063
sigma2						
_cons	.8030918	.0160876	49.92	0.000	.7715607	.8346229

-> Model for the mediator

Iteration 0: Log likelihood = -6746.0618

Iteration 1: Log likelihood = -6746.0618

Linear regression (Maximum Likelihood)

Number of obs = 4,984

Wald chi2(7) = 695.26

Log likelihood = -6746.0618

Prob > chi2 = 0.0000

ztnfrsf1a	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.1975196	.0439025	4.50	0.000	.1114723	.2835669
AGE	.0228014	.0019015	11.99	0.000	.0190746	.0265281
SEX	-.1746006	.0272618	-6.40	0.000	-.2280328	-.1211684
NonWhite	-.1554696	.0766261	-2.03	0.042	-.3056539	-.0052852
householdsize	-.0248433	.0123697	-2.01	0.045	-.0490875	-.000599
SES	-.0737984	.0209583	-3.52	0.000	-.114876	-.0327209
LE8_TOTALSCORE	-.0021263	.0001465	-14.52	0.000	-.0024133	-.0018392
_cons	.205454	.1523765	1.35	0.178	-.0931985	.5041064
sigma2						
_cons	.8774023	.0175762	49.92	0.000	.8429536	.911851

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0982168	.0424563	2.31	0.021	.0150041	.1814296
cde	.0972734	.0436877	2.23	0.026	.0116472	.1828997
intref	-.0002037	.0008072	-0.25	0.801	-.0017857	.0013783
intmed	.0018803	.0073581	0.26	0.798	-.0125413	.0163018
pie	-.0007331	.0028699	-0.26	0.798	-.0063581	.0048918

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zOD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **ztnfrsf1a**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.535 .0313 2.605 -.01034 533.3**

-> Model for the outcome

Iteration 0: Log likelihood = **-6964.6286**  
 Iteration 1: Log likelihood = **-6964.6286**

Linear regression (Maximum Likelihood)

Number of obs = **4,984**

Wald chi2(9) = **240.59**

Log likelihood = **-6964.6286**

Prob > chi2 = **0.0000**

zOD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0661125	.0477113	1.39	0.166	-.0273999	.1596249
ztnfrsf1a	.0408246	.0158423	2.58	0.010	.0097742	.071875
_poororalhealXztnfrsf1a_000	-.0403589	.0406177	-0.99	0.320	-.1199681	.0392503
AGE	.0208818	.0020152	10.36	0.000	.0169322	.0248315
SEX	.051591	.0286096	1.80	0.071	-.0044828	.1076648
NonWhite	.106635	.080096	1.33	0.183	-.0503503	.2636203
householdsize	-.00892	.0129298	-0.69	0.490	-.0342619	.0164218
SES	-.0508966	.0219257	-2.32	0.020	-.0938702	-.007923
LE8_TOTALSCORE	-.0007781	.0001562	-4.98	0.000	-.0010844	-.0004719
_cons	-.7904442	.1592476	-4.96	0.000	-1.102564	-.4783246
sigma2						
_cons	.9578326	.0191874	49.92	0.000	.920226	.9954392

-> Model for the mediator

Iteration 0: Log likelihood = **-6746.0618**  
 Iteration 1: Log likelihood = **-6746.0618**

Linear regression (Maximum Likelihood)

Number of obs = **4,984**

Wald chi2(7) = **695.26**

Log likelihood = **-6746.0618**

Prob > chi2 = **0.0000**

ztnfrsf1a	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1975196	.0439025	4.50	0.000	.1114723	.2835669
AGE	.0228014	.0019015	11.99	0.000	.0190746	.0265281
SEX	-.1746006	.0272618	-6.40	0.000	-.2280328	-.1211684
NonWhite	-.1554696	.0766261	-2.03	0.042	-.3056539	-.0052852
householdsize	-.0248433	.0123697	-2.01	0.045	-.0490875	-.000599
SES	-.0737984	.0209583	-3.52	0.000	-.114876	-.0327209
LE8_TOTALSCORE	-.0021263	.0001465	-14.52	0.000	-.0024133	-.0018392
_cons	.205454	.1523765	1.35	0.178	-.0931985	.5041064
<b>sigma2</b>						
_cons	.8774023	.0175762	49.92	0.000	.8429536	.911851

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0670682	.0463693	1.45	0.148	-.0238139	.1579503
cde	.0661125	.0477113	1.39	0.166	-.0273999	.1596249
intref	.0008637	.0010388	0.83	0.406	-.0011724	.0028998
intmed	-.0079717	.0082161	-0.97	0.332	-.024075	.0081316
pie	.0080637	.0036061	2.24	0.025	.0009958	.0151315

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zFA\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **ztnfrsf4**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.536 .03177 2.605 -.01102 533.7**

-> Model for the outcome

Iteration 0: Log likelihood = **-6740.4284**  
 Iteration 1: Log likelihood = **-6740.4284**

Linear regression (Maximum Likelihood)

Log likelihood = **-6740.4284**

Number of obs = **5,036**

Wald chi2(9) = **899.43**

Prob > chi2 = **0.0000**

zFA_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.1286125	.0438148	-2.94	0.003	-.2144878	-.0427371
ztnfrsf4	.0328813	.0147068	2.24	0.025	.0040565	.0617061
_poororalhealXztnfrsf4_000	-.049121	.0338874	-1.45	0.147	-.115539	.0172971
AGE	-.0448989	.0018807	-23.87	0.000	-.0485849	-.0412129
SEX	-.0797338	.0266827	-2.99	0.003	-.1320309	-.0274367
NonWhite	.07508	.074644	1.01	0.314	-.0712195	.2213794
householdsize	.0253067	.0121312	2.09	0.037	.00153	.0490834
SES	.0533394	.0205618	2.59	0.009	.013039	.0936397
LE8_TOTALSCORE	.0007522	.0001438	5.23	0.000	.0004704	.001034
_cons	2.117826	.1495663	14.16	0.000	1.824681	2.41097
sigma2						
_cons	.8513096	.0169652	50.18	0.000	.8180584	.8845609

-> Model for the mediator

Iteration 0: Log likelihood = -7019.8508

Iteration 1: Log likelihood = -7019.8508

Linear regression (Maximum Likelihood)

Number of obs = 5,036

Wald chi2(7) = 257.20

Log likelihood = -7019.8508

Prob > chi2 = 0.0000

ztnfrsf4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.2016853	.0453846	4.44	0.000	.112733	.2906375
AGE	.0177846	.001972	9.02	0.000	.0139196	.0216496
SEX	.0018719	.0282049	0.07	0.947	-.0534087	.0571526
NonWhite	-.3433548	.0787541	-4.36	0.000	-.49771	-.1889996
householdsize	-.0089998	.0128227	-0.70	0.483	-.0341317	.0161322
SES	-.0831678	.0216934	-3.83	0.000	-.1256862	-.0406495
LE8_TOTALSCORE	-.0008022	.0001515	-5.30	0.000	-.0010991	-.0005053
_cons	-.5335455	.1579191	-3.38	0.001	-.8430614	-.2240297
sigma2						
_cons	.9512205	.0189563	50.18	0.000	.9140668	.9883741

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.1308077	.0430836	-3.04	0.002	-.21525	-.0463655
cde	-.1286125	.0438148	-2.94	0.003	-.2144878	-.0427371
intref	.00108	.0010344	1.04	0.296	-.0009473	.0031074
intmed	-.009907	.007189	-1.38	0.168	-.0239971	.0041832
pie	.0066317	.0033204	2.00	0.046	.0001238	.0131395

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zMD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **ztnfrsf4**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.536 .03177 2.605 -.01102 533.7**

-> Model for the outcome

Iteration 0: Log likelihood = **-6566.9904**  
 Iteration 1: Log likelihood = **-6566.9904**

Linear regression (Maximum Likelihood)      Number of obs = **5,036**  
    Wald chi2(9) = **1330.16**  
 Log likelihood = **-6566.9904**                      Prob > chi2 = **0.0000**

	zMD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu							
	poororalhealth_sev	.0993951	.0423315	2.35	0.019	.0164269	.1823633
	ztnfrsf4	-.0327451	.0142089	-2.30	0.021	-.0605941	-.0048961
	_poororalhealXztnfrsf4_000	.0434019	.0327402	1.33	0.185	-.0207677	.1075714
	AGE	.055865	.001817	30.75	0.000	.0523038	.0594262
	SEX	-.0917764	.0257794	-3.56	0.000	-.142303	-.0412497
	NonWhite	-.2165339	.072117	-3.00	0.003	-.3578807	-.0751872
	householdsize	-.0239038	.0117205	-2.04	0.041	-.0468755	-.000932
	SES	.0158058	.0198657	0.80	0.426	-.0231303	.0547419
	LE8_TOTALSCORE	-.0000527	.0001389	-0.38	0.704	-.000325	.0002195
	_cons	-2.821929	.144503	-19.53	0.000	-3.105149	-2.538708
sigma2							
	_cons	.7946459	.015836	50.18	0.000	.7636079	.8256839

-> Model for the mediator

Iteration 0: Log likelihood = **-7019.8508**  
 Iteration 1: Log likelihood = **-7019.8508**

Linear regression (Maximum Likelihood)      Number of obs = **5,036**  
    Wald chi2(7) = **257.20**  
 Log likelihood = **-7019.8508**                      Prob > chi2 = **0.0000**

ztnfrsf4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.2016853	.0453846	4.44	0.000	.112733	.2906375
AGE	.0177846	.001972	9.02	0.000	.0139196	.0216496
SEX	.0018719	.0282049	0.07	0.947	-.0534087	.0571526
NonWhite	-.3433548	.0787541	-4.36	0.000	-.49771	-.1889996
householdsize	-.0089998	.0128227	-0.70	0.483	-.0341317	.0161322
SES	-.0831678	.0216934	-3.83	0.000	-.1256862	-.0406495
LE8_TOTALSCORE	-.0008022	.0001515	-5.30	0.000	-.0010991	-.0005053
_cons	-.5335455	.1579191	-3.38	0.001	-.8430614	-.2240297
<b>sigma2</b>						
_cons	.9512205	.0189563	50.18	0.000	.9140668	.9883741

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.1005902	.0416223	2.42	0.016	.0190119	.1821684
cde	.0993951	.0423315	2.35	0.019	.0164269	.1823633
intref	-.0009543	.0009592	-0.99	0.320	-.0028343	.0009258
intmed	.0087535	.0068907	1.27	0.204	-.0047521	.0222591
pie	-.0066042	.0032282	-2.05	0.041	-.0129313	-.0002771

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): zICVF\_mean  
 Exposure (avar): poororalhealth\_sev  
 Mediator (mvar): ztnfrsf4  
 Covariates (cvars): AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE

Model for the outcome (yreg): linear  
 Model for the mediator (mreg): linear

Referent exposure level (a0): 0  
 Actual exposure level (a1): 1  
 Mediator level for the decomposition (m): 0  
 Fixed values of the covariates (c): 54.56 1.536 .03177 2.605 -.01102 533.7

-> Model for the outcome

Iteration 0: Log likelihood = -6919.7374  
 Iteration 1: Log likelihood = -6919.7374

Linear regression (Maximum Likelihood)

Log likelihood = -6919.7374

Number of obs = 5,036  
 Wald chi2(9) = 491.69  
 Prob > chi2 = 0.0000



zICVF_mean		Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu							
	poororalhealth_sev	-.0709695	.0454029	-1.56	0.118	-.1599575	.0180186
	ztnfrsf4	.0275835	.0152399	1.81	0.070	-.0022861	.0574532
	_poororalhealXztnfrsf4_000	-.051911	.0351157	-1.48	0.139	-.1207365	.0169144
	AGE	-.0366081	.0019488	-18.78	0.000	-.0404278	-.0327885
	SEX	-.0163744	.0276499	-0.59	0.554	-.0705671	.0378183
	NonWhite	.1582899	.0773496	2.05	0.041	.0066876	.3098923
	householdsize	.0174529	.0125709	1.39	0.165	-.0071856	.0420914
	SES	.0104737	.0213071	0.49	0.623	-.0312875	.0522348
	LE8_TOTALSCORE	-.0000544	.000149	-0.37	0.715	-.0003464	.0002375
	_cons	2.010421	.1549876	12.97	0.000	1.706651	2.314191
sigma2							
	_cons	.9141428	.0182174	50.18	0.000	.8784374	.9498482

-> Model for the mediator

Iteration 0: Log likelihood = -7019.8508

Iteration 1: Log likelihood = -7019.8508

Linear regression (Maximum Likelihood)

Number of obs = 5,036

Wald chi2(7) = 257.20

Log likelihood = -7019.8508

Prob > chi2 = 0.0000

ztnfrsf4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.2016853	.0453846	4.44	0.000	.112733	.2906375
AGE	.0177846	.001972	9.02	0.000	.0139196	.0216496
SEX	.0018719	.0282049	0.07	0.947	-.0534087	.0571526
NonWhite	-.3433548	.0787541	-4.36	0.000	-.49771	-.1889996
householdsize	-.0089998	.0128227	-0.70	0.483	-.0341317	.0161322
SES	-.0831678	.0216934	-3.83	0.000	-.1256862	-.0406495
LE8_TOTALSCORE	-.0008022	.0001515	-5.30	0.000	-.0010991	-.0005053
_cons	-.5335455	.1579191	-3.38	0.001	-.8430614	-.2240297
sigma2						
_cons	.9512205	.0189563	50.18	0.000	.9140668	.9883741

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.0747346	.0446505	-1.67	0.094	-.162248	.0127788
cde	-.0709695	.0454029	-1.56	0.118	-.1599575	.0180186
intref	.0011414	.0010822	1.05	0.292	-.0009796	.0032623
intmed	-.0104697	.0074639	-1.40	0.161	-.0250987	.0041593
pie	.0055632	.0033188	1.68	0.094	-.0009416	.012068

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zISOVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **ztnfrsf4**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.536 .03177 2.605 -.01102 533.7**

-> Model for the outcome

Iteration 0: Log likelihood = **-6595.0256**  
 Iteration 1: Log likelihood = **-6595.0256**

Linear regression (Maximum Likelihood)      Number of obs = **5,036**  
    Wald chi2(9) = **1233.21**  
 Log likelihood = **-6595.0256**                      Prob > chi2 = **0.0000**

zISOVF_mean		Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>							
	poororalhealth_sev	.1093503	.0425678	2.57	0.010	.025919	.1927816
	ztnfrsf4	-.0250525	.0142883	-1.75	0.080	-.053057	.0029519
	_poororalhealXztnfrsf4_000	.0090796	.0329229	0.28	0.783	-.0554482	.0736074
	AGE	.0540146	.0018271	29.56	0.000	.0504335	.0575957
	SEX	-.0812271	.0259233	-3.13	0.002	-.1320358	-.0304184
	NonWhite	-.1060714	.0725196	-1.46	0.144	-.2482073	.0360644
	householdsize	-.0271473	.0117859	-2.30	0.021	-.0502473	-.0040473
	SES	.0404722	.0199766	2.03	0.043	.0013188	.0796256
	LE8_TOTALSCORE	-.0002087	.0001397	-1.49	0.135	-.0004824	.0000651
	_cons	-2.648657	.1453097	-18.23	0.000	-2.933459	-2.363855
<b>sigma2</b>							
	_cons	.8035429	.0160133	50.18	0.000	.7721574	.8349284

-> Model for the mediator

Iteration 0: Log likelihood = **-7019.8508**  
 Iteration 1: Log likelihood = **-7019.8508**

Linear regression (Maximum Likelihood)      Number of obs = **5,036**  
    Wald chi2(7) = **257.20**  
 Log likelihood = **-7019.8508**                      Prob > chi2 = **0.0000**

ztnfrsf4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.2016853	.0453846	4.44	0.000	.112733	.2906375
AGE	.0177846	.001972	9.02	0.000	.0139196	.0216496
SEX	.0018719	.0282049	0.07	0.947	-.0534087	.0571526
NonWhite	-.3433548	.0787541	-4.36	0.000	-.49771	-.1889996
householdsize	-.0089998	.0128227	-0.70	0.483	-.0341317	.0161322
SES	-.0831678	.0216934	-3.83	0.000	-.1256862	-.0406495
LE8_TOTALSCORE	-.0008022	.0001515	-5.30	0.000	-.0010991	-.0005053
_cons	-.5335455	.1579191	-3.38	0.001	-.8430614	-.2240297
<b>sigma2</b>						
_cons	.9512205	.0189563	50.18	0.000	.9140668	.9883741

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.1059292	.0418568	2.53	0.011	.0238914	.187967
cde	.1093503	.0425678	2.57	0.010	.025919	.1927816
intref	-.0001996	.0007359	-0.27	0.786	-.001642	.0012427
intmed	.0018312	.0066528	0.28	0.783	-.0112081	.0148706
pie	-.0050527	.0030979	-1.63	0.103	-.0111245	.0010191

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): zOD\_mean  
 Exposure (avar): poororalhealth\_sev  
 Mediator (mvar): ztnfrsf4  
 Covariates (cvars): AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE

Model for the outcome (yreg): linear  
 Model for the mediator (mreg): linear

Referent exposure level (a0): 0  
 Actual exposure level (a1): 1  
 Mediator level for the decomposition (m): 0  
 Fixed values of the covariates (c): 54.56 1.536 .03177 2.605 -.01102 533.7

-> Model for the outcome

Iteration 0: Log likelihood = -7041.5799  
 Iteration 1: Log likelihood = -7041.5799

Linear regression (Maximum Likelihood)

Log likelihood = -7041.5799

Number of obs = 5,036

Wald chi2(9) = 236.24

Prob > chi2 = 0.0000

zOD_mean		Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu							
	poororalhealth_sev	.0679339	.0465148	1.46	0.144	-.0232334	.1591012
	ztnfrsf4	-.0029512	.0156131	-0.19	0.850	-.0335523	.0276499
	_poororalhealXztnfrsf4_000	.0085814	.0359756	0.24	0.811	-.0619295	.0790924
	AGE	.0215498	.0019965	10.79	0.000	.0176366	.0254629
	SEX	.0366922	.028327	1.30	0.195	-.0188276	.0922121
	NonWhite	.1005345	.0792438	1.27	0.205	-.0547805	.2558495
	householdsize	-.0097968	.0128787	-0.76	0.447	-.0350387	.0154451
	SES	-.053412	.0218289	-2.45	0.014	-.0961958	-.0106282
	LE8_TOTALSCORE	-.0008646	.0001526	-5.67	0.000	-.0011637	-.0005655
	_cons	-.7555879	.1587832	-4.76	0.000	-1.066797	-.4443786
sigma2							
	_cons	.9594646	.0191206	50.18	0.000	.9219889	.9969402

-> Model for the mediator

Iteration 0: Log likelihood = -7019.8508

Iteration 1: Log likelihood = -7019.8508

Linear regression (Maximum Likelihood)

Number of obs = 5,036

Wald chi2(7) = 257.20

Log likelihood = -7019.8508

Prob > chi2 = 0.0000

ztnfrsf4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.2016853	.0453846	4.44	0.000	.112733	.2906375
AGE	.0177846	.001972	9.02	0.000	.0139196	.0216496
SEX	.0018719	.0282049	0.07	0.947	-.0534087	.0571526
NonWhite	-.3433548	.0787541	-4.36	0.000	-.49771	-.1889996
householdsize	-.0089998	.0128227	-0.70	0.483	-.0341317	.0161322
SES	-.0831678	.0216934	-3.83	0.000	-.1256862	-.0406495
LE8_TOTALSCORE	-.0008022	.0001515	-5.30	0.000	-.0010991	-.0005053
_cons	-.5335455	.1579191	-3.38	0.001	-.8430614	-.2240297
sigma2						
_cons	.9512205	.0189563	50.18	0.000	.9140668	.9883741

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0688808	.0457306	1.51	0.132	-.0207495	.158511
cde	.0679339	.0465148	1.46	0.144	-.0232334	.1591012
intref	-.0001887	.0008009	-0.24	0.814	-.0017583	.001381
intmed	.0017307	.0072662	0.24	0.812	-.0125107	.0159722
pie	-.0005952	.0031518	-0.19	0.850	-.0067726	.0055822

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zFA\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zvsig4**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.535 .03117 2.604 -.01013 533.4**

-> Model for the outcome

Iteration 0: Log likelihood = **-6647.553**  
 Iteration 1: Log likelihood = **-6647.553**

Linear regression (Maximum Likelihood)      Number of obs = **4,973**  
    Wald chi2(9) = **876.78**  
 Log likelihood = **-6647.553**                      Prob > chi2 = **0.0000**

zFA_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.1186293	.0448116	-2.65	0.008	-.2064585	-.0308002
zvsig4	-.0162706	.0147858	-1.10	0.271	-.0452503	.012709
_poororalhealXzvsig4_000	-.0174367	.0379654	-0.46	0.646	-.0918475	.0569741
AGE	-.0435639	.0018995	-22.93	0.000	-.0472868	-.039841
SEX	-.0886667	.0268724	-3.30	0.001	-.1413356	-.0359978
NonWhite	.0832051	.0756504	1.10	0.271	-.0650671	.2314772
householdsize	.0249332	.0121803	2.05	0.041	.0010603	.0488061
SES	.0505502	.0206677	2.45	0.014	.0100422	.0910582
LE8_TOTALSCORE	.0007142	.0001462	4.89	0.000	.0004277	.0010006
_cons	2.080445	.1501124	13.86	0.000	1.78623	2.37466
sigma2						
_cons	.8483863	.0170137	49.86	0.000	.81504	.8817326

-> Model for the mediator

Iteration 0: Log likelihood = **-6789.9144**  
 Iteration 1: Log likelihood = **-6789.9144**

Linear regression (Maximum Likelihood)      Number of obs = **4,973**  
    Wald chi2(7) = **561.42**  
 Log likelihood = **-6789.9144**                      Prob > chi2 = **0.0000**

zvsig4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1968729	.044432	4.43	0.000	.1097877	.283958
AGE	.0233717	.0019263	12.13	0.000	.0195962	.0271472
SEX	-.1116964	.0276073	-4.05	0.000	-.1658057	-.057587
NonWhite	-.2131625	.0777887	-2.74	0.006	-.3656255	-.0606996
householdsize	-.0265601	.0125282	-2.12	0.034	-.051115	-.0020052
SES	-.0881555	.0212299	-4.15	0.000	-.1297653	-.0465457
LE8_TOTALSCORE	-.0016827	.0001485	-11.33	0.000	-.0019737	-.0013917
_cons	-.1527191	.1544565	-0.99	0.323	-.4554483	.1500102
<b>sigma2</b>						
_cons	.898377	.0180163	49.86	0.000	.8630658	.9336882

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.1248926	.0436262	-2.86	0.004	-.2103985	-.0393868
cde	-.1186293	.0448116	-2.65	0.008	-.2064585	-.0308002
intref	.0003728	.000849	0.44	0.661	-.0012912	.0020367
intmed	-.0034328	.0075144	-0.46	0.648	-.0181608	.0112951
pie	-.0032032	.0029994	-1.07	0.286	-.0090819	.0026754

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zMD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zvsig4**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.535 .03117 2.604 -.01013 533.4**

-> Model for the outcome

Iteration 0: Log likelihood = **-6467.7056**  
 Iteration 1: Log likelihood = **-6467.7056**

Linear regression (Maximum Likelihood)

Log likelihood = **-6467.7056**

Number of obs = **4,973**

Wald chi2(9) = **1309.98**

Prob > chi2 = **0.0000**

zMD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.0859886	.0432199	1.99	0.047	.001279	.1706981
zvsig4	-.002912	.0142606	-0.20	0.838	-.0308623	.0250383
_poororalhealXzvsig4_000	.0266298	.0366169	0.73	0.467	-.045138	.0983976
AGE	.0551119	.001832	30.08	0.000	.0515213	.0587026
SEX	-.0918819	.0259179	-3.55	0.000	-.1426801	-.0410837
NonWhite	-.2380894	.0729634	-3.26	0.001	-.3810951	-.0950837
householdsize	-.0231641	.0117476	-1.97	0.049	-.046189	-.0001391
SES	.0174309	.0199336	0.87	0.382	-.0216383	.0565
LE8_TOTALSCORE	-.0000586	.000141	-0.42	0.677	-.0003349	.0002176
_cons	-2.776745	.1447806	-19.18	0.000	-3.060509	-2.49298
<b>sigma2</b>						
_cons	.7891896	.0158266	49.86	0.000	.75817	.8202091

-> Model for the mediator

Iteration 0: Log likelihood = -6789.9144

Iteration 1: Log likelihood = -6789.9144

Linear regression (Maximum Likelihood)

Number of obs = 4,973

Wald chi2(7) = 561.42

Log likelihood = -6789.9144

Prob > chi2 = 0.0000

zvsig4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1968729	.044432	4.43	0.000	.1097877	.283958
AGE	.0233717	.0019263	12.13	0.000	.0195962	.0271472
SEX	-.1116964	.0276073	-4.05	0.000	-.1658057	-.057587
NonWhite	-.2131625	.0777887	-2.74	0.006	-.3656255	-.0606996
householdsize	-.0265601	.0125282	-2.12	0.034	-.051115	-.0020052
SES	-.0881555	.0212299	-4.15	0.000	-.1297653	-.0465457
LE8_TOTALSCORE	-.0016827	.0001485	-11.33	0.000	-.0019737	-.0013917
_cons	-.1527191	.1544565	-0.99	0.323	-.4554483	.1500102
<b>sigma2</b>						
_cons	.898377	.0180163	49.86	0.000	.8630658	.9336882

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0900887	.0420657	2.14	0.032	.0076415	.1725359
cde	.0859886	.0432199	1.99	0.047	.001279	.1706981
intref	-.0005693	.0008703	-0.65	0.513	-.002275	.0011364
intmed	.0052427	.0073053	0.72	0.473	-.0090755	.0195609
pie	-.0005733	.0028105	-0.20	0.838	-.0060818	.0049352

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zICVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zvsig4**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.535 .03117 2.604 -.01013 533.4**

-> Model for the outcome

Iteration 0: Log likelihood = **-6830.4416**  
 Iteration 1: Log likelihood = **-6830.4416**

Linear regression (Maximum Likelihood)      Number of obs = **4,973**  
    Wald chi2(9) = **474.38**  
 Log likelihood = **-6830.4416**                      Prob > chi2 = **0.0000**

zICVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.0637075	.0464903	-1.37	0.171	-.1548268	.0274118
zvsig4	.0053009	.0153397	0.35	0.730	-.0247644	.0353662
_poororalhealXzvsig4_000	-.0245088	.0393876	-0.62	0.534	-.101707	.0526895
AGE	-.0358418	.0019706	-18.19	0.000	-.0397041	-.0319794
SEX	-.0166112	.0278791	-0.60	0.551	-.0712532	.0380307
NonWhite	.1744939	.0784844	2.22	0.026	.0206674	.3283205
householdsize	.018523	.0126366	1.47	0.143	-.0062442	.0432902
SES	.0088876	.0214419	0.41	0.679	-.0331378	.0509131
LE8_TOTALSCORE	-.0000527	.0001516	-0.35	0.728	-.0003498	.0002445
_cons	1.963525	.1557357	12.61	0.000	1.658288	2.268761
sigma2						
_cons	.9131395	.0183123	49.86	0.000	.8772481	.949031

-> Model for the mediator

Iteration 0: Log likelihood = **-6789.9144**  
 Iteration 1: Log likelihood = **-6789.9144**

Linear regression (Maximum Likelihood)      Number of obs = **4,973**  
    Wald chi2(7) = **561.42**  
 Log likelihood = **-6789.9144**                      Prob > chi2 = **0.0000**



zvsig4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1968729	.044432	4.43	0.000	.1097877	.283958
AGE	.0233717	.0019263	12.13	0.000	.0195962	.0271472
SEX	-.1116964	.0276073	-4.05	0.000	-.1658057	-.057587
NonWhite	-.2131625	.0777887	-2.74	0.006	-.3656255	-.0606996
householdsize	-.0265601	.0125282	-2.12	0.034	-.051115	-.0020052
SES	-.0881555	.0212299	-4.15	0.000	-.1297653	-.0465457
LE8_TOTALSCORE	-.0016827	.0001485	-11.33	0.000	-.0019737	-.0013917
_cons	-.1527191	.1544565	-0.99	0.323	-.4554483	.1500102
<b>sigma2</b>						
_cons	.898377	.0180163	49.86	0.000	.8630658	.9336882

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.0669651	.0452433	-1.48	0.139	-.1556402	.0217101
cde	-.0637075	.0464903	-1.37	0.171	-.1548268	.0274118
intref	.0005239	.0009119	0.57	0.566	-.0012633	.0023112
intmed	-.0048251	.0078304	-0.62	0.538	-.0201725	.0105223
pie	.0010436	.0030291	0.34	0.730	-.0048934	.0069806

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zISOVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zvsig4**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.535 .03117 2.604 -.01013 533.4**

-> Model for the outcome

Iteration 0: Log likelihood = **-6511.7381**  
 Iteration 1: Log likelihood = **-6511.7381**

Linear regression (Maximum Likelihood)

Number of obs = **4,973**

Wald chi2(9) = **1217.18**

Log likelihood = **-6511.7381**

Prob > chi2 = **0.0000**

zISOVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.0943712	.0436043	2.16	0.030	.0089083	.1798341
zvsig4	.0042564	.0143875	0.30	0.767	-.0239425	.0324553
_poororalhealXzvsig4_000	.0118248	.0369426	0.32	0.749	-.0605813	.0842309
AGE	.0535288	.0018483	28.96	0.000	.0499062	.0571514
SEX	-.0809274	.0261484	-3.09	0.002	-.1321774	-.0296775
NonWhite	-.1225429	.0736124	-1.66	0.096	-.2668205	.0217346
householdsize	-.0243054	.0118521	-2.05	0.040	-.0475352	-.0010757
SES	.0409753	.0201109	2.04	0.042	.0015587	.080392
LE8_TOTALSCORE	-.0002096	.0001422	-1.47	0.140	-.0004884	.0000691
_cons	-2.627821	.1460682	-17.99	0.000	-2.91411	-2.341533
<b>sigma2</b>						
_cons	.8032895	.0161093	49.86	0.000	.7717158	.8348632

-> Model for the mediator

Iteration 0: Log likelihood = -6789.9144

Iteration 1: Log likelihood = -6789.9144

Linear regression (Maximum Likelihood)

Number of obs = 4,973

Wald chi2(7) = 561.42

Log likelihood = -6789.9144

Prob > chi2 = 0.0000

zvsig4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1968729	.044432	4.43	0.000	.1097877	.283958
AGE	.0233717	.0019263	12.13	0.000	.0195962	.0271472
SEX	-.1116964	.0276073	-4.05	0.000	-.1658057	-.057587
NonWhite	-.2131625	.0777887	-2.74	0.006	-.3656255	-.0606996
householdsize	-.0265601	.0125282	-2.12	0.034	-.051115	-.0020052
SES	-.0881555	.0212299	-4.15	0.000	-.1297653	-.0465457
LE8_TOTALSCORE	-.0016827	.0001485	-11.33	0.000	-.0019737	-.0013917
_cons	-.1527191	.1544565	-0.99	0.323	-.4554483	.1500102
<b>sigma2</b>						
_cons	.898377	.0180163	49.86	0.000	.8630658	.9336882

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0972844	.0424334	2.29	0.022	.0141164	.1804523
cde	.0943712	.0436043	2.16	0.030	.0089083	.1798341
intref	-.0002528	.0008076	-0.31	0.754	-.0018357	.0013301
intmed	.002328	.0072919	0.32	0.750	-.011964	.0166199
pie	.000838	.0028388	0.30	0.768	-.004726	.0064019

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zOD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zvsig4**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.535 .03117 2.604 -.01013 533.4**

-> Model for the outcome

Iteration 0: Log likelihood = **-6950.5446**  
 Iteration 1: Log likelihood = **-6950.5446**

Linear regression (Maximum Likelihood)      Number of obs = **4,973**  
    Wald chi2(9) = **239.70**  
 Log likelihood = **-6950.5446**                      Prob > chi2 = **0.0000**

zOD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.0659483	.0476267	1.38	0.166	-.0273984	.1592949
zvsig4	.039285	.0157147	2.50	0.012	.0084848	.0700852
_poororalhealXzvsig4_000	-.0387466	.0403504	-0.96	0.337	-.117832	.0403389
AGE	.0208994	.0020188	10.35	0.000	.0169427	.0248562
SEX	.0486732	.0285606	1.70	0.088	-.0073045	.1046508
NonWhite	.1059132	.0804029	1.32	0.188	-.0516737	.2635
householdsize	-.0087898	.0129455	-0.68	0.497	-.0341625	.0165828
SES	-.0504813	.0219661	-2.30	0.022	-.093534	-.0074286
LE8_TOTALSCORE	-.0007945	.0001553	-5.11	0.000	-.001099	-.0004901
_cons	-.7789563	.1595427	-4.88	0.000	-1.091654	-.4662583
<b>sigma2</b>						
_cons	.9583286	.0192185	49.86	0.000	.920661	.9959962

-> Model for the mediator

Iteration 0: Log likelihood = **-6789.9144**  
 Iteration 1: Log likelihood = **-6789.9144**

Linear regression (Maximum Likelihood)      Number of obs = **4,973**  
    Wald chi2(7) = **561.42**  
 Log likelihood = **-6789.9144**                      Prob > chi2 = **0.0000**

zvsig4	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1968729	.044432	4.43	0.000	.1097877	.283958
AGE	.0233717	.0019263	12.13	0.000	.0195962	.0271472
SEX	-.1116964	.0276073	-4.05	0.000	-.1658057	-.057587
NonWhite	-.2131625	.0777887	-2.74	0.006	-.3656255	-.0606996
householdsize	-.0265601	.0125282	-2.12	0.034	-.051115	-.0020052
SES	-.0881555	.0212299	-4.15	0.000	-.1297653	-.0465457
LE8_TOTALSCORE	-.0016827	.0001485	-11.33	0.000	-.0019737	-.0013917
_cons	-.1527191	.1544565	-0.99	0.323	-.4554483	.1500102
<b>sigma2</b>						
_cons	.898377	.0180163	49.86	0.000	.8630658	.9336882

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0668826	.0463453	1.44	0.149	-.0239525	.1577177
cde	.0659483	.0476267	1.38	0.166	-.0273984	.1592949
intref	.0008283	.0010248	0.81	0.419	-.0011803	.0028369
intmed	-.0076281	.0081283	-0.94	0.348	-.0235593	.0083031
pie	.0077341	.0035522	2.18	0.029	.0007719	.0146964

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zFA\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zcd83**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.58 1.535 .03171 2.606 -.00816 534**

-> Model for the outcome

Iteration 0: Log likelihood = **-6684.2315**  
 Iteration 1: Log likelihood = **-6684.2315**

Linear regression (Maximum Likelihood)

Log likelihood = **-6684.2315**

Number of obs = **4,982**

Wald chi2(9) = **881.49**

Prob > chi2 = **0.0000**

zFA_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	-.1263742	.0443792	-2.85	0.004	-.2133558	-.0393926
zcd83	.0090311	.0146536	0.62	0.538	-.0196895	.0377516
_poororalhealXzcd83_000	-.0431975	.0374037	-1.15	0.248	-.1165074	.0301123
AGE	-.0444373	.0018901	-23.51	0.000	-.0481418	-.0407328
SEX	-.0873205	.0272102	-3.21	0.001	-.1406516	-.0339895
NonWhite	.0742244	.0752854	0.99	0.324	-.0733323	.2217811
householdsize	.0243002	.0122761	1.98	0.048	.0002396	.0483608
SES	.0516879	.0207695	2.49	0.013	.0109804	.0923953
LE8_TOTALSCORE	.0007423	.0001464	5.07	0.000	.0004554	.0010291
_cons	2.111634	.1511362	13.97	0.000	1.815412	2.407855
<b>sigma2</b>						
_cons	.8568226	.0171674	49.91	0.000	.8231751	.89047

-> Model for the mediator

Iteration 0: Log likelihood = -6883.1396

Iteration 1: Log likelihood = -6883.1396

Linear regression (Maximum Likelihood)

Number of obs = 4,982

Wald chi2(7) = 385.19

Log likelihood = -6883.1396

Prob > chi2 = 0.0000

zcd83	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1987504	.0451183	4.41	0.000	.1103201	.2871807
AGE	.012435	.0019589	6.35	0.000	.0085956	.0162744
SEX	.2922715	.0280139	10.43	0.000	.2373652	.3471778
NonWhite	-.2702575	.0782544	-3.45	0.001	-.4236332	-.1168817
householdsize	-.0150132	.012773	-1.18	0.240	-.0400478	.0100213
SES	-.0986337	.02157	-4.57	0.000	-.1409101	-.0563574
LE8_TOTALSCORE	-.0016421	.0001505	-10.91	0.000	-.0019372	-.0013471
_cons	-.2252155	.157243	-1.43	0.152	-.5334061	.0829751
<b>sigma2</b>						
_cons	.9280463	.0185944	49.91	0.000	.8916018	.9644907

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.1322308	.0435218	-3.04	0.002	-.217532	-.0469296
cde	-.1263742	.0443792	-2.85	0.004	-.2133558	-.0393926
intref	.000934	.0010231	0.91	0.361	-.0010711	.0029392
intmed	-.0085855	.0076852	-1.12	0.264	-.0236483	.0064773
pie	.0017949	.0029408	0.61	0.542	-.0039689	.0075587

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zMD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zcd83**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.58 1.535 .03171 2.606 -.00816 534**

-> Model for the outcome

Iteration 0: Log likelihood = **-6503.7008**  
 Iteration 1: Log likelihood = **-6503.7008**

Linear regression (Maximum Likelihood)      Number of obs = **4,982**  
    Wald chi2(9) = **1310.08**  
 Log likelihood = **-6503.7008**                      Prob > chi2 = **0.0000**

zMD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0974602	.0427998	2.28	0.023	.0135741	.1813463
zcd83	-.0067502	.0141321	-0.48	0.633	-.0344487	.0209483
_poororalhealXzcd83_000	.0254655	.0360726	0.71	0.480	-.0452354	.0961664
AGE	.0556953	.0018228	30.55	0.000	.0521226	.0592679
SEX	-.0852633	.0262419	-3.25	0.001	-.1366964	-.0338302
NonWhite	-.2126097	.0726062	-2.93	0.003	-.3549152	-.0703043
householdsize	-.0219125	.0118392	-1.85	0.064	-.0451169	.0012918
SES	.0189721	.0200303	0.95	0.344	-.0202866	.0582308
LE8_TOTALSCORE	-.0000293	.0001411	-0.21	0.835	-.000306	.0002473
_cons	-2.838438	.1457576	-19.47	0.000	-3.124118	-2.552758
sigma2						
_cons	.7969227	.0159672	49.91	0.000	.7656275	.8282179

-> Model for the mediator

Iteration 0: Log likelihood = **-6883.1396**  
 Iteration 1: Log likelihood = **-6883.1396**

Linear regression (Maximum Likelihood)      Number of obs = **4,982**  
    Wald chi2(7) = **385.19**  
 Log likelihood = **-6883.1396**                      Prob > chi2 = **0.0000**

zcd83	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1987504	.0451183	4.41	0.000	.1103201	.2871807
AGE	.012435	.0019589	6.35	0.000	.0085956	.0162744
SEX	.2922715	.0280139	10.43	0.000	.2373652	.3471778
NonWhite	-.2702575	.0782544	-3.45	0.001	-.4236332	-.1168817
householdsize	-.0150132	.012773	-1.18	0.240	-.0400478	.0100213
SES	-.0986337	.02157	-4.57	0.000	-.1409101	-.0563574
LE8_TOTALSCORE	-.0016421	.0001505	-10.91	0.000	-.0019372	-.0013471
_cons	-.2252155	.157243	-1.43	0.152	-.5334061	.0829751
<b>sigma2</b>						
_cons	.9280463	.0185944	49.91	0.000	.8916018	.9644907

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.1006292	.0419572	2.40	0.016	.0183947	.1828638
cde	.0974602	.0427998	2.28	0.023	.0135741	.1813463
intref	-.0005506	.000863	-0.64	0.523	-.0022421	.0011408
intmed	.0050613	.0072609	0.70	0.486	-.0091698	.0192924
pie	-.0013416	.0028252	-0.47	0.635	-.006879	.0041957

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zICVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zcd83**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.58 1.535 .03171 2.606 -.00816 534**

-> Model for the outcome

Iteration 0: Log likelihood = **-6853.3874**  
 Iteration 1: Log likelihood = **-6853.3874**

Linear regression (Maximum Likelihood)

Log likelihood = **-6853.3874**

Number of obs = **4,982**

Wald chi2(9) = **477.47**

Prob > chi2 = **0.0000**

zICVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	-.0657973	.0459119	-1.43	0.152	-.1557829	.0241884
zcd83	.003203	.0151597	0.21	0.833	-.0265095	.0329155
_poororalhealXzcd83_000	-.0341143	.0386955	-0.88	0.378	-.1099561	.0417274
AGE	-.0361524	.0019554	-18.49	0.000	-.0399848	-.03232
SEX	-.0251235	.02815	-0.89	0.372	-.0802964	.0300494
NonWhite	.1574708	.0778855	2.02	0.043	.0048181	.3101236
householdsize	.0172672	.0127	1.36	0.174	-.0076244	.0421588
SES	.0076833	.0214868	0.36	0.721	-.0344301	.0497966
LE8_TOTALSCORE	-.0000835	.0001514	-0.55	0.582	-.0003802	.0002133
_cons	2.013019	.1563559	12.87	0.000	1.706567	2.319471
<b>sigma2</b>						
_cons	.9170277	.0183737	49.91	0.000	.881016	.9530394

-> Model for the mediator

Iteration 0: Log likelihood = -6883.1396

Iteration 1: Log likelihood = -6883.1396

Linear regression (Maximum Likelihood)

Number of obs = 4,982

Wald chi2(7) = 385.19

Log likelihood = -6883.1396

Prob > chi2 = 0.0000

zcd83	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1987504	.0451183	4.41	0.000	.1103201	.2871807
AGE	.012435	.0019589	6.35	0.000	.0085956	.0162744
SEX	.2922715	.0280139	10.43	0.000	.2373652	.3471778
NonWhite	-.2702575	.0782544	-3.45	0.001	-.4236332	-.1168817
householdsize	-.0150132	.012773	-1.18	0.240	-.0400478	.0100213
SES	-.0986337	.02157	-4.57	0.000	-.1409101	-.0563574
LE8_TOTALSCORE	-.0016421	.0001505	-10.91	0.000	-.0019372	-.0013471
_cons	-.2252155	.157243	-1.43	0.152	-.5334061	.0829751
<b>sigma2</b>						
_cons	.9280463	.0185944	49.91	0.000	.8916018	.9644907

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.0712033	.0450189	-1.58	0.114	-.1594387	.0170322
cde	-.0657973	.0459119	-1.43	0.152	-.1557829	.0241884
intref	.0007376	.000972	0.76	0.448	-.0011675	.0026428
intmed	-.0067802	.0078432	-0.86	0.387	-.0221527	.0085922
pie	.0006366	.0030165	0.21	0.833	-.0052756	.0065487

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All



-> Summary

Outcome (yvar): **zISOVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zcd83**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.58 1.535 .03171 2.606 -.00816 534**

-> Model for the outcome

Iteration 0: Log likelihood = **-6528.8208**  
 Iteration 1: Log likelihood = **-6528.8208**

Linear regression (Maximum Likelihood)      Number of obs = **4,982**  
    Wald chi2(9) = **1234.92**  
 Log likelihood = **-6528.8208**                      Prob > chi2 = **0.0000**

zISOVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.1126938	.0430162	2.62	0.009	.0283836	.1970039
zcd83	-.0173202	.0142036	-1.22	0.223	-.0451586	.0105183
_poororalhealXzcd83_000	.0078309	.0362549	0.22	0.829	-.0632274	.0788892
AGE	.0543373	.001832	29.66	0.000	.0507466	.057928
SEX	-.078047	.0263745	-2.96	0.003	-.1297401	-.0263539
NonWhite	-.1010426	.0729732	-1.38	0.166	-.2440674	.0419822
householdsize	-.0239656	.011899	-2.01	0.044	-.0472873	-.0006439
SES	.0404679	.0201316	2.01	0.044	.0010107	.0799251
LE8_TOTALSCORE	-.000216	.0001419	-1.52	0.128	-.0004941	.000062
_cons	-2.675727	.1464944	-18.27	0.000	-2.962851	-2.388603
sigma2						
_cons	.8049998	.0161291	49.91	0.000	.7733874	.8366122

-> Model for the mediator

Iteration 0: Log likelihood = **-6883.1396**  
 Iteration 1: Log likelihood = **-6883.1396**

Linear regression (Maximum Likelihood)      Number of obs = **4,982**  
    Wald chi2(7) = **385.19**  
 Log likelihood = **-6883.1396**                      Prob > chi2 = **0.0000**

zcd83	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1987504	.0451183	4.41	0.000	.1103201	.2871807
AGE	.012435	.0019589	6.35	0.000	.0085956	.0162744
SEX	.2922715	.0280139	10.43	0.000	.2373652	.3471778
NonWhite	-.2702575	.0782544	-3.45	0.001	-.4236332	-.1168817
householdsize	-.0150132	.012773	-1.18	0.240	-.0400478	.0100213
SES	-.0986337	.02157	-4.57	0.000	-.1409101	-.0563574
LE8_TOTALSCORE	-.0016421	.0001505	-10.91	0.000	-.0019372	-.0013471
_cons	-.2252155	.157243	-1.43	0.152	-.5334061	.0829751
<b>sigma2</b>						
_cons	.9280463	.0185944	49.91	0.000	.8916018	.9644907

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.1106384	.0421643	2.62	0.009	.0279979	.193279
cde	.1126938	.0430162	2.62	0.009	.0283836	.1970039
intref	-.0001693	.0007921	-0.21	0.831	-.0017218	.0013832
intmed	.0015564	.0072143	0.22	0.829	-.0125834	.0156962
pie	-.0034424	.0029291	-1.18	0.240	-.0091834	.0022986

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zOD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zcd83**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.58 1.535 .03171 2.606 -.00816 534**

-> Model for the outcome

Iteration 0: Log likelihood = **-6979.8916**  
 Iteration 1: Log likelihood = **-6979.8916**

Linear regression (Maximum Likelihood)

Log likelihood = **-6979.8916**

Number of obs = **4,982**

Wald chi2(9) = **235.55**

Prob > chi2 = **0.0000**

zOD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.0754745	.0470926	1.60	0.109	-.0168253	.1677744
zcd83	-.0027195	.0155496	-0.17	0.861	-.0331961	.0277571
_poororalhealXzcd83_000	.0065626	.0396906	0.17	0.869	-.0712295	.0843548
AGE	.0214237	.0020056	10.68	0.000	.0174927	.0253546
SEX	.0384269	.0288739	1.33	0.183	-.0181649	.0950187
NonWhite	.0934465	.0798885	1.17	0.242	-.0631321	.2500251
householdsize	-.0090853	.0130266	-0.70	0.486	-.034617	.0164465
SES	-.0547496	.0220394	-2.48	0.013	-.0979459	-.0115532
LE8_TOTALSCORE	-.0008867	.0001553	-5.71	0.000	-.0011911	-.0005823
_cons	-.7438606	.160377	-4.64	0.000	-1.058194	-.4295275
<b>sigma2</b>						
_cons	.9648013	.0193309	49.91	0.000	.9269135	1.002689

-> Model for the mediator

Iteration 0: Log likelihood = -6883.1396

Iteration 1: Log likelihood = -6883.1396

Linear regression (Maximum Likelihood)

Number of obs = 4,982

Wald chi2(7) = 385.19

Log likelihood = -6883.1396

Prob > chi2 = 0.0000

zcd83	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1987504	.0451183	4.41	0.000	.1103201	.2871807
AGE	.012435	.0019589	6.35	0.000	.0085956	.0162744
SEX	.2922715	.0280139	10.43	0.000	.2373652	.3471778
NonWhite	-.2702575	.0782544	-3.45	0.001	-.4236332	-.1168817
householdsize	-.0150132	.012773	-1.18	0.240	-.0400478	.0100213
SES	-.0986337	.02157	-4.57	0.000	-.1409101	-.0563574
LE8_TOTALSCORE	-.0016421	.0001505	-10.91	0.000	-.0019372	-.0013471
_cons	-.2252155	.157243	-1.43	0.152	-.5334061	.0829751
<b>sigma2</b>						
_cons	.9280463	.0185944	49.91	0.000	.8916018	.9644907

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0760965	.0461574	1.65	0.099	-.0143703	.1665632
cde	.0754745	.0470926	1.60	0.109	-.0168253	.1677744
intref	-.0001419	.0008635	-0.16	0.869	-.0018343	.0015505
intmed	.0013043	.0078941	0.17	0.869	-.0141678	.0167764
pie	-.0005405	.0030929	-0.17	0.861	-.0066025	.0055215

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```
Outcome      (yvar):  zFA_mean
Exposure     (avar):  poororalhealth_sev
Mediator      (mvar):  zwfdc2
Covariates   (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE
```

Model for the outcome (yreg): **linear**  
Model for the mediator (mreg): **linear**

```
Referent exposure level (a0):      0
Actual exposure level (a1):       1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.62 1.539 .03072 2.605 -.006423 534.1
```

-> Model for the outcome

```
Iteration 0:  Log likelihood = -6277.1418
Iteration 1:  Log likelihood = -6277.1418
```

```
Linear regression (Maximum Likelihood)      Number of obs = 4,688
                                           Wald chi2(9) = 833.60
Log likelihood = -6277.1418                Prob > chi2 = 0.0000
```

zFA_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	-.1238104	.0466693	-2.65	0.008	-.2152805	-.0323403
zwfdc2	-.05433	.0158671	-3.42	0.001	-.085429	-.0232311
_poororalhealXzwfdc2_000	-.0008402	.0373701	-0.02	0.982	-.0740843	.0724038
AGE	-.041767	.0020398	-20.48	0.000	-.045765	-.0377691
SEX	-.0884012	.0277797	-3.18	0.001	-.1428484	-.033954
NonWhite	.0585171	.0786455	0.74	0.457	-.0956252	.2126593
householdsize	.0264897	.0126238	2.10	0.036	.0017474	.051232
SES	.0433386	.021445	2.02	0.043	.0013071	.08537
LE8_TOTALSCORE	.0006936	.0001496	4.64	0.000	.0004005	.0009868
_cons	1.986343	.1583644	12.54	0.000	1.675955	2.296731
<b>sigma2</b>						
_cons	.8522157	.0176024	48.41	0.000	.8177158	.8867157

-> Model for the mediator

```
Iteration 0:  Log likelihood = -6268.6515
Iteration 1:  Log likelihood = -6268.6515
```

```
Linear regression (Maximum Likelihood)      Number of obs = 4,688
                                           Wald chi2(7) = 831.74
Log likelihood = -6268.6515                Prob > chi2 = 0.0000
```

zwfdc2	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1936807	.0445943	4.34	0.000	.1062774	.281084
AGE	.0431285	.001934	22.30	0.000	.0393379	.0469191
SEX	-.1172938	.0276762	-4.24	0.000	-.1715382	-.0630494
NonWhite	-.2396709	.0784241	-3.06	0.002	-.3933794	-.0859624
householdsize	.0155662	.0125957	1.24	0.217	-.009121	.0402534
SES	-.1141415	.0213412	-5.35	0.000	-.1559695	-.0723135
LE8_TOTALSCORE	-.0005444	.0001491	-3.65	0.000	-.0008366	-.0002521
_cons	-1.939562	.1554233	-12.48	0.000	-2.244186	-1.634938
<b>sigma2</b>						
_cons	.8491345	.0175387	48.41	0.000	.8147592	.8835097

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.1344782	.0454401	-2.96	0.003	-.2235391	-.0454172
cde	-.1238104	.0466693	-2.65	0.008	-.2152805	-.0323403
intref	.0000176	.0007844	0.02	0.982	-.0015198	.001555
intmed	-.0001627	.007238	-0.02	0.982	-.0143489	.0140234
pie	-.0105227	.0039133	-2.69	0.007	-.0181927	-.0028527

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zMD_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): zwfdc2
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.62 1.539 .03072 2.605 -.006423 534.1

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6119.0198
Iteration 1: Log likelihood = -6119.0198

```

Linear regression (Maximum Likelihood)

Number of obs = 4,688

Wald chi2(9) = 1260.27

Prob > chi2 = 0.0000

Log likelihood = -6119.0198

zMD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0805785	.0451214	1.79	0.074	-.0078579	.1690149
zwfdc2	.0530901	.0153408	3.46	0.001	.0230226	.0831576
_poororalhealXzwfdc2_000	.0403584	.0361307	1.12	0.264	-.0304564	.1111732
AGE	.0531149	.0019721	26.93	0.000	.0492496	.0569803
SEX	-.0845293	.0268584	-3.15	0.002	-.1371707	-.0318879
NonWhite	-.2061809	.076037	-2.71	0.007	-.3552107	-.057151
householdsize	-.0224099	.0122052	-1.84	0.066	-.0463315	.0015118
SES	.0235506	.0207338	1.14	0.256	-.0170868	.064188
LE8_TOTALSCORE	-.0000202	.0001446	-0.14	0.889	-.0003036	.0002633
_cons	-2.699816	.1531119	-17.63	0.000	-2.99991	-2.399722
sigma2						
_cons	.796623	.0164541	48.41	0.000	.7643736	.8288724

-> Model for the mediator

Iteration 0: Log likelihood = -6268.6515

Iteration 1: Log likelihood = -6268.6515

Linear regression (Maximum Likelihood)

Number of obs = 4,688

Wald chi2(7) = 831.74

Log likelihood = -6268.6515

Prob > chi2 = 0.0000

zwfdc2	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.1936807	.0445943	4.34	0.000	.1062774	.281084
AGE	.0431285	.001934	22.30	0.000	.0393379	.0469191
SEX	-.1172938	.0276762	-4.24	0.000	-.1715382	-.0630494
NonWhite	-.2396709	.0784241	-3.06	0.002	-.3933794	-.0859624
householdsize	.0155662	.0125957	1.24	0.217	-.009121	.0402534
SES	-.1141415	.0213412	-5.35	0.000	-.1559695	-.0723135
LE8_TOTALSCORE	-.0005444	.0001491	-3.65	0.000	-.0008366	-.0002521
_cons	-1.939562	.1554233	-12.48	0.000	-2.244186	-1.634938
sigma2						
_cons	.8491345	.0175387	48.41	0.000	.8147592	.8835097

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0978307	.0440516	2.22	0.026	.0114911	.1841702
cde	.0805785	.0451214	1.79	0.074	-.0078579	.1690149
intref	-.000847	.0009529	-0.89	0.374	-.0027147	.0010207
intmed	.0078166	.0072255	1.08	0.279	-.0063452	.0219784
pie	.0102825	.0037991	2.71	0.007	.0028364	.0177287

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zICVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zwfdc2**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.62 1.539 .03072 2.605 -.006423 534.1**

-> Model for the outcome

Iteration 0: Log likelihood = **-6364.7113**  
 Iteration 1: Log likelihood = **-6364.7113**

Linear regression (Maximum Likelihood)      Number of obs = **4,688**  
    Wald chi2(9) = **484.66**  
 Log likelihood = **-6364.7113**                      Prob > chi2 = **0.0000**

zICVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.0584119	.0475492	-1.23	0.219	-.1516067	.0347829
zwfdc2	-.0552548	.0161663	-3.42	0.001	-.0869401	-.0235694
_poororalhealXzwfdc2_000	-.0179972	.0380747	-0.47	0.636	-.0926222	.0566279
AGE	-.0335878	.0020783	-16.16	0.000	-.0376611	-.0295144
SEX	-.0290675	.0283035	-1.03	0.304	-.0845413	.0264064
NonWhite	.1478274	.0801283	1.84	0.065	-.0092212	.3048761
householdsize	.0223494	.0128619	1.74	0.082	-.0028594	.0475582
SES	-.001059	.0218494	-0.05	0.961	-.043883	.041765
LE8_TOTALSCORE	-.0001376	.0001524	-0.90	0.367	-.0004363	.0001611
_cons	1.892875	.1613503	11.73	0.000	1.576635	2.209116
sigma2						
_cons	.8846559	.0182724	48.41	0.000	.8488426	.9204691

-> Model for the mediator

Iteration 0: Log likelihood = **-6268.6515**  
 Iteration 1: Log likelihood = **-6268.6515**

Linear regression (Maximum Likelihood)      Number of obs = **4,688**  
    Wald chi2(7) = **831.74**  
 Log likelihood = **-6268.6515**                      Prob > chi2 = **0.0000**

zwfdc2	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1936807	.0445943	4.34	0.000	.1062774	.281084
AGE	.0431285	.001934	22.30	0.000	.0393379	.0469191
SEX	-.1172938	.0276762	-4.24	0.000	-.1715382	-.0630494
NonWhite	-.2396709	.0784241	-3.06	0.002	-.3933794	-.0859624
householdsize	.0155662	.0125957	1.24	0.217	-.009121	.0402534
SES	-.1141415	.0213412	-5.35	0.000	-.1559695	-.0723135
LE8_TOTALSCORE	-.0005444	.0001491	-3.65	0.000	-.0008366	-.0002521
_cons	-1.939562	.1554233	-12.48	0.000	-2.244186	-1.634938
<b>sigma2</b>						
_cons	.8491345	.0175387	48.41	0.000	.8147592	.8835097

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.0722216	.046339	-1.56	0.119	-.1630445	.0186012
cde	-.0584119	.0475492	-1.23	0.219	-.1516067	.0347829
intref	.0003777	.0008395	0.45	0.653	-.0012677	.0020231
intmed	-.0034857	.0074179	-0.47	0.638	-.0180245	.0110531
pie	-.0107018	.0039844	-2.69	0.007	-.018511	-.0028925

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zISOVF_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): zwfdc2
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.62 1.539 .03072 2.605 -.006423 534.1

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6159.5168
Iteration 1: Log likelihood = -6159.5168

```

Linear regression (Maximum Likelihood)

Number of obs = 4,688

Wald chi2(9) = 1158.98

Log likelihood = -6159.5168

Prob > chi2 = 0.0000



zISOVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.0896028	.0455129	1.97	0.049	.0003991	.1788064
zwfdc2	.0311983	.0154739	2.02	0.044	.00087	.0615267
_poororalhealXzwfdc2_000	.0307342	.0364441	0.84	0.399	-.0406949	.1021634
AGE	.0523371	.0019893	26.31	0.000	.0484382	.056236
SEX	-.0736337	.0270914	-2.72	0.007	-.1267318	-.0205356
NonWhite	-.0994105	.0766967	-1.30	0.195	-.2497334	.0509123
householdsize	-.0238989	.012311	-1.94	0.052	-.0480281	.0002303
SES	.0414383	.0209136	1.98	0.048	.0004483	.0824283
LE8_TOTALSCORE	-.0002975	.0001459	-2.04	0.041	-.0005834	-.0000116
_cons	-2.524637	.1544403	-16.35	0.000	-2.827335	-2.22194
<b>sigma2</b>						
_cons	.8105057	.0167408	48.41	0.000	.7776943	.8433172

-> Model for the mediator

Iteration 0: Log likelihood = -6268.6515

Iteration 1: Log likelihood = -6268.6515

Linear regression (Maximum Likelihood)

Number of obs = 4,688

Wald chi2(7) = 831.74

Log likelihood = -6268.6515

Prob > chi2 = 0.0000

zwfdc2	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1936807	.0445943	4.34	0.000	.1062774	.281084
AGE	.0431285	.001934	22.30	0.000	.0393379	.0469191
SEX	-.1172938	.0276762	-4.24	0.000	-.1715382	-.0630494
NonWhite	-.2396709	.0784241	-3.06	0.002	-.3933794	-.0859624
householdsize	.0155662	.0125957	1.24	0.217	-.009121	.0402534
SES	-.1141415	.0213412	-5.35	0.000	-.1559695	-.0723135
LE8_TOTALSCORE	-.0005444	.0001491	-3.65	0.000	-.0008366	-.0002521
_cons	-1.939562	.1554233	-12.48	0.000	-2.244186	-1.634938
<b>sigma2</b>						
_cons	.8491345	.0175387	48.41	0.000	.8147592	.8835097

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.1009529	.0443284	2.28	0.023	.0140708	.1878349
cde	.0896028	.0455129	1.97	0.049	.0003991	.1788064
intref	-.000645	.0008821	-0.73	0.465	-.002374	.0010839
intmed	.0059526	.0071904	0.83	0.408	-.0081402	.0200455
pie	.0060425	.0033042	1.83	0.067	-.0004336	.0125186

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zOD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zwfdc2**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.62 1.539 .03072 2.605 -.006423 534.1**

-> Model for the outcome

Iteration 0: Log likelihood = **-6599.9844**  
 Iteration 1: Log likelihood = **-6599.9844**

Linear regression (Maximum Likelihood)      Number of obs = **4,688**  
    Wald chi2(9) = **216.88**  
 Log likelihood = **-6599.9844**                      Prob > chi2 = **0.0000**

zOD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0875088	.0499965	1.75	0.080	-.0104824	.1855001
zwfdc2	.0164768	.0169983	0.97	0.332	-.0168392	.0497929
_poororalhealXzwfdc2_000	-.0448272	.0400343	-1.12	0.263	-.123293	.0336386
AGE	.0208172	.0021852	9.53	0.000	.0165342	.0251002
SEX	.0392675	.0297602	1.32	0.187	-.0190614	.0975964
NonWhite	.1051719	.0842523	1.25	0.212	-.0599595	.2703033
householdsize	-.0086839	.0135238	-0.64	0.521	-.0351901	.0178223
SES	-.0500123	.0229739	-2.18	0.029	-.0950403	-.0049843
LE8_TOTALSCORE	-.0009078	.0001602	-5.66	0.000	-.0012219	-.0005937
_cons	-.6988366	.1696545	-4.12	0.000	-1.031353	-.3663199
sigma2						
_cons	.9780602	.0202016	48.41	0.000	.9384657	1.017655

-> Model for the mediator

Iteration 0: Log likelihood = **-6268.6515**  
 Iteration 1: Log likelihood = **-6268.6515**

Linear regression (Maximum Likelihood)      Number of obs = **4,688**  
    Wald chi2(7) = **831.74**  
 Log likelihood = **-6268.6515**                      Prob > chi2 = **0.0000**

zwfdc2	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1936807	.0445943	4.34	0.000	.1062774	.281084
AGE	.0431285	.001934	22.30	0.000	.0393379	.0469191
SEX	-.1172938	.0276762	-4.24	0.000	-.1715382	-.0630494
NonWhite	-.2396709	.0784241	-3.06	0.002	-.3933794	-.0859624
householdsize	.0155662	.0125957	1.24	0.217	-.009121	.0402534
SES	-.1141415	.0213412	-5.35	0.000	-.1559695	-.0723135
LE8_TOTALSCORE	-.0005444	.0001491	-3.65	0.000	-.0008366	-.0002521
_cons	-1.939562	.1554233	-12.48	0.000	-2.244186	-1.634938
<b>sigma2</b>						
_cons	.8491345	.0175387	48.41	0.000	.8147592	.8835097

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0829587	.0486235	1.71	0.088	-.0123415	.178259
cde	.0875088	.0499965	1.75	0.080	-.0104824	.1855001
intref	.0009408	.0010568	0.89	0.373	-.0011305	.0030121
intmed	-.0086822	.0080074	-1.08	0.278	-.0243764	.0070121
pie	.0031912	.0033732	0.95	0.344	-.0034202	.0098027

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zFA\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zcolec12**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.536 .03175 2.603 -.01081 533.5**

-> Model for the outcome

Iteration 0: Log likelihood = **-6659.4043**  
 Iteration 1: Log likelihood = **-6659.4043**

Linear regression (Maximum Likelihood)

Log likelihood = **-6659.4043**

Number of obs = **4,976**

Wald chi2(9) = **884.50**

Prob > chi2 = **0.0000**

zFA_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	-.1255947	.0457082	-2.75	0.006	-.215181	-.0360084
zcolec12	.005409	.0152302	0.36	0.722	-.0244417	.0352596
_poororalhealXzcolec12_000	-.0090745	.0399713	-0.23	0.820	-.0874169	.0692679
AGE	-.0443406	.0019438	-22.81	0.000	-.0481505	-.0405307
SEX	-.0825883	.0269816	-3.06	0.002	-.1354712	-.0297055
NonWhite	.086507	.0749997	1.15	0.249	-.0604896	.2335037
householdsize	.0267089	.0121937	2.19	0.028	.0028097	.0506082
SES	.0530487	.0207032	2.56	0.010	.0124712	.0936261
LE8_TOTALSCORE	.0007742	.0001482	5.22	0.000	.0004837	.0010646
_cons	2.07688	.1510082	13.75	0.000	1.78091	2.372851
sigma2						
_cons	.8510643	.0170623	49.88	0.000	.8176228	.8845058

-> Model for the mediator

Iteration 0: Log likelihood = -6596.5726

Iteration 1: Log likelihood = -6596.5726

Linear regression (Maximum Likelihood)

Number of obs = 4,976

Wald chi2(7) = 1019.13

Log likelihood = -6596.5726

Prob > chi2 = 0.0000

zcolec12	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.1850839	.0428089	4.32	0.000	.1011801	.2689878
AGE	.0357516	.0018511	19.31	0.000	.0321235	.0393797
SEX	.1874145	.0265102	7.07	0.000	.1354555	.2393735
NonWhite	.0208785	.074057	0.28	0.778	-.1242706	.1660276
householdsize	-.0292117	.0120331	-2.43	0.015	-.0527961	-.0056272
SES	-.0796391	.0204102	-3.90	0.000	-.1196424	-.0396359
LE8_TOTALSCORE	-.002286	.0001427	-16.02	0.000	-.0025656	-.0020064
_cons	-.9641693	.1484846	-6.49	0.000	-1.255194	-.6731448
sigma2						
_cons	.8298407	.0166368	49.88	0.000	.7972332	.8624482

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.1260916	.0441941	-2.85	0.004	-.2127104	-.0394727
cde	-.1255947	.0457082	-2.75	0.006	-.215181	-.0360084
intref	.0001816	.0008095	0.22	0.823	-.001405	.0017682
intmed	-.0016795	.0074082	-0.23	0.821	-.0161994	.0128403
pie	.0010011	.0028284	0.35	0.723	-.0045424	.0065446

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zMD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zcolec12**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.536 .03175 2.603 -.01081 533.5**

-> Model for the outcome

Iteration 0: Log likelihood = **-6474.6732**  
 Iteration 1: Log likelihood = **-6474.6732**

Linear regression (Maximum Likelihood)      Number of obs = **4,976**  
    Wald chi2(9) = **1310.60**  
 Log likelihood = **-6474.6732**                      Prob > chi2 = **0.0000**

zMD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
mu						
poororalhealth_sev	.0900688	.0440424	2.05	0.041	.0037473	.1763903
zcolec12	-.023861	.0146751	-1.63	0.104	-.0526237	.0049018
_poororalhealXzcolec12_000	.0159146	.0385146	0.41	0.679	-.0595726	.0914019
AGE	.0557107	.001873	29.74	0.000	.0520397	.0593817
SEX	-.0901093	.0259982	-3.47	0.001	-.141065	-.0391537
NonWhite	-.2407273	.0722664	-3.33	0.001	-.3823669	-.0990878
householdsize	-.0259732	.0117493	-2.21	0.027	-.0490015	-.0029449
SES	.0140759	.0199487	0.71	0.480	-.0250227	.0531746
LE8_TOTALSCORE	-.0001284	.0001428	-0.90	0.368	-.0004083	.0001514
_cons	-2.769539	.1455049	-19.03	0.000	-3.054723	-2.484354
sigma2						
_cons	.7901627	.0158413	49.88	0.000	.7591142	.8212111

-> Model for the mediator

Iteration 0: Log likelihood = **-6596.5726**  
 Iteration 1: Log likelihood = **-6596.5726**

Linear regression (Maximum Likelihood)      Number of obs = **4,976**  
    Wald chi2(7) = **1019.13**  
 Log likelihood = **-6596.5726**                      Prob > chi2 = **0.0000**

zcolec12	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1850839	.0428089	4.32	0.000	.1011801	.2689878
AGE	.0357516	.0018511	19.31	0.000	.0321235	.0393797
SEX	.1874145	.0265102	7.07	0.000	.1354555	.2393735
NonWhite	.0208785	.074057	0.28	0.778	-.1242706	.1660276
householdsize	-.0292117	.0120331	-2.43	0.015	-.0527961	-.0056272
SES	-.0796391	.0204102	-3.90	0.000	-.1196424	-.0396359
LE8_TOTALSCORE	-.002286	.0001427	-16.02	0.000	-.0025656	-.0020064
_cons	-.9641693	.1484846	-6.49	0.000	-1.255194	-.6731448
<b>sigma2</b>						
_cons	.8298407	.0166368	49.88	0.000	.7972332	.8624482

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0882796	.0425857	2.07	0.038	.0048131	.1717461
cde	.0900688	.0440424	2.05	0.041	.0037473	.1763903
intref	-.0003185	.000801	-0.40	0.691	-.0018885	.0012515
intmed	.0029455	.0071609	0.41	0.681	-.0110896	.0169807
pie	-.0044163	.0029019	-1.52	0.128	-.0101038	.0012712

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

```

Outcome (yvar): zICVF_mean
Exposure (avar): poororalhealth_sev
Mediator (mvar): zcolec12
Covariates (cvars): AGE SEX NonWhite householdsize SES LE8_TOTALSCORE

Model for the outcome (yreg): linear
Model for the mediator (mreg): linear

Referent exposure level (a0): 0
Actual exposure level (a1): 1
Mediator level for the decomposition (m): 0
Fixed values of the covariates (c): 54.56 1.536 .03175 2.603 -.01081 533.5

```

-> Model for the outcome

```

Iteration 0: Log likelihood = -6840.841
Iteration 1: Log likelihood = -6840.841

```

Linear regression (Maximum Likelihood)

Log likelihood = -6840.841

Number of obs = 4,976

Wald chi2(9) = 481.37

Prob > chi2 = 0.0000

zICVF_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	-.0612329	.0474055	-1.29	0.196	-.1541461	.0316802
zcolec12	.0193724	.0157958	1.23	0.220	-.0115868	.0503315
_poororalhealXzcolec12_000	-.0211701	.0414557	-0.51	0.610	-.1024218	.0600815
AGE	-.0367042	.002016	-18.21	0.000	-.0406556	-.0327529
SEX	-.0202572	.0279835	-0.72	0.469	-.0751039	.0345895
NonWhite	.1699506	.0777848	2.18	0.029	.0174951	.322406
householdsize	.0196505	.0126465	1.55	0.120	-.0051363	.0444373
SES	.0096514	.021472	0.45	0.653	-.0324329	.0517357
LE8_TOTALSCORE	-3.89e-06	.0001537	-0.03	0.980	-.0003051	.0002973
_cons	1.988293	.1566159	12.70	0.000	1.681331	2.295255
<b>sigma2</b>						
_cons	.9154469	.018353	49.88	0.000	.8794756	.9514182

-> Model for the mediator

Iteration 0: Log likelihood = -6596.5726

Iteration 1: Log likelihood = -6596.5726

Linear regression (Maximum Likelihood)

Number of obs = 4,976

Wald chi2(7) = 1019.13

Log likelihood = -6596.5726

Prob > chi2 = 0.0000

zcolec12	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1850839	.0428089	4.32	0.000	.1011801	.2689878
AGE	.0357516	.0018511	19.31	0.000	.0321235	.0393797
SEX	.1874145	.0265102	7.07	0.000	.1354555	.2393735
NonWhite	.0208785	.074057	0.28	0.778	-.1242706	.1660276
householdsize	-.0292117	.0120331	-2.43	0.015	-.0527961	-.0056272
SES	-.0796391	.0204102	-3.90	0.000	-.1196424	-.0396359
LE8_TOTALSCORE	-.002286	.0001427	-16.02	0.000	-.0025656	-.0020064
_cons	-.9641693	.1484846	-6.49	0.000	-1.255194	-.6731448
<b>sigma2</b>						
_cons	.8298407	.0166368	49.88	0.000	.7972332	.8624482

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	-.061142	.0458358	-1.33	0.182	-.1509785	.0286944
cde	-.0612329	.0474055	-1.29	0.196	-.1541461	.0316802
intref	.0004236	.0008789	0.48	0.630	-.0012991	.0021463
intmed	-.0039183	.0077261	-0.51	0.612	-.0190612	.0112247
pie	.0035855	.0030389	1.18	0.238	-.0023706	.0095416

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zISOVF\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zcolec12**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.536 .03175 2.603 -.01081 533.5**

-> Model for the outcome

Iteration 0: Log likelihood = **-6510.7236**  
 Iteration 1: Log likelihood = **-6510.7236**

Linear regression (Maximum Likelihood)      Number of obs = **4,976**  
    Wald chi2(9) = **1204.47**  
 Log likelihood = **-6510.7236**                      Prob > chi2 = **0.0000**

zISOVF_mean		Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>							
	poororalhealth_sev	.1066377	.0443626	2.40	0.016	.0196886	.1935869
	zcolec12	-.0104659	.0147819	-0.71	0.479	-.0394378	.0185059
	_poororalhealXzcolec12_000	-.0056644	.0387947	-0.15	0.884	-.0817005	.0703718
	AGE	.0533507	.0018866	28.28	0.000	.049653	.0570484
	SEX	-.0839312	.0261873	-3.21	0.001	-.1352573	-.0326051
	NonWhite	-.1315509	.0727919	-1.81	0.071	-.2742203	.0111186
	householdsize	-.0276558	.0118348	-2.34	0.019	-.0508515	-.0044601
	SES	.0369847	.0200937	1.84	0.066	-.0023982	.0763677
	LE8_TOTALSCORE	-.0002511	.0001438	-1.75	0.081	-.000533	.0000308
	_cons	-2.583525	.1465629	-17.63	0.000	-2.870783	-2.296267
<b>sigma2</b>							
	_cons	.8016952	.0160725	49.88	0.000	.7701937	.8331968

-> Model for the mediator

Iteration 0: Log likelihood = **-6596.5726**  
 Iteration 1: Log likelihood = **-6596.5726**

Linear regression (Maximum Likelihood)      Number of obs = **4,976**  
    Wald chi2(7) = **1019.13**  
 Log likelihood = **-6596.5726**                      Prob > chi2 = **0.0000**



zcolec12	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1850839	.0428089	4.32	0.000	.1011801	.2689878
AGE	.0357516	.0018511	19.31	0.000	.0321235	.0393797
SEX	.1874145	.0265102	7.07	0.000	.1354555	.2393735
NonWhite	.0208785	.074057	0.28	0.778	-.1242706	.1660276
householdsize	-.0292117	.0120331	-2.43	0.015	-.0527961	-.0056272
SES	-.0796391	.0204102	-3.90	0.000	-.1196424	-.0396359
LE8_TOTALSCORE	-.002286	.0001427	-16.02	0.000	-.0025656	-.0020064
_cons	-.9641693	.1484846	-6.49	0.000	-1.255194	-.6731448
<b>sigma2</b>						
_cons	.8298407	.0166368	49.88	0.000	.7972332	.8624482

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.1037656	.042898	2.42	0.016	.019687	.1878442
cde	.1066377	.0443626	2.40	0.016	.0196886	.1935869
intref	.0001133	.0007802	0.15	0.884	-.0014158	.0016425
intmed	-.0010484	.0071844	-0.15	0.884	-.0151295	.0130327
pie	-.0019371	.0027723	-0.70	0.485	-.0073707	.0034966

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=Warning: fixed values for the covariates AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE were not provided. All

-> Summary

Outcome (yvar): **zOD\_mean**  
 Exposure (avar): **poororalhealth\_sev**  
 Mediator (mvar): **zcolec12**  
 Covariates (cvars): **AGE SEX NonWhite householdsize SES LE8\_TOTALSCORE**

Model for the outcome (yreg): **linear**  
 Model for the mediator (mreg): **linear**

Referent exposure level (a0): **0**  
 Actual exposure level (a1): **1**  
 Mediator level for the decomposition (m): **0**  
 Fixed values of the covariates (c): **54.56 1.536 .03175 2.603 -.01081 533.5**

-> Model for the outcome

Iteration 0: Log likelihood = **-6968.4165**  
 Iteration 1: Log likelihood = **-6968.4165**

Linear regression (Maximum Likelihood)

Log likelihood = **-6968.4165**

Number of obs = **4,976**

Wald chi2(9) = **236.57**

Prob > chi2 = **0.0000**

zOD_mean	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.0797111	.0486366	1.64	0.101	-.0156149	.1750372
zcolec12	.0220188	.016206	1.36	0.174	-.0097444	.0537819
_poororalhealXzcolec12_000	-.0370214	.0425323	-0.87	0.384	-.1203831	.0463403
AGE	.0209929	.0020684	10.15	0.000	.016939	.0250469
SEX	.0372959	.0287102	1.30	0.194	-.0189751	.093567
NonWhite	.1000315	.0798048	1.25	0.210	-.0563832	.2564461
householdsize	-.0087821	.012975	-0.68	0.498	-.0342126	.0166483
SES	-.0532982	.0220296	-2.42	0.016	-.0964754	-.0101209
LE8_TOTALSCORE	-.0008207	.0001577	-5.20	0.000	-.0011298	-.0005117
_cons	-.7529958	.1606832	-4.69	0.000	-1.067929	-.4380625
<b>sigma2</b>						
_cons	.963612	.0193187	49.88	0.000	.9257481	1.001476

-> Model for the mediator

Iteration 0: Log likelihood = -6596.5726

Iteration 1: Log likelihood = -6596.5726

Linear regression (Maximum Likelihood)

Number of obs = 4,976

Wald chi2(7) = 1019.13

Log likelihood = -6596.5726

Prob > chi2 = 0.0000

zcolec12	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
<b>mu</b>						
poororalhealth_sev	.1850839	.0428089	4.32	0.000	.1011801	.2689878
AGE	.0357516	.0018511	19.31	0.000	.0321235	.0393797
SEX	.1874145	.0265102	7.07	0.000	.1354555	.2393735
NonWhite	.0208785	.074057	0.28	0.778	-.1242706	.1660276
householdsize	-.0292117	.0120331	-2.43	0.015	-.0527961	-.0056272
SES	-.0796391	.0204102	-3.90	0.000	-.1196424	-.0396359
LE8_TOTALSCORE	-.002286	.0001427	-16.02	0.000	-.0025656	-.0020064
_cons	-.9641693	.1484846	-6.49	0.000	-1.255194	-.6731448
<b>sigma2</b>						
_cons	.8298407	.0166368	49.88	0.000	.7972332	.8624482

-> 4-way decomposition: delta method

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
te	.0776752	.0470301	1.65	0.099	-.014502	.1698524
cde	.0797111	.0486366	1.64	0.101	-.0156149	.1750372
intref	.0007408	.0009911	0.75	0.455	-.0012017	.0026834
intmed	-.0068521	.00803	-0.85	0.393	-.0225906	.0088864
pie	.0040753	.0031441	1.30	0.195	-.002087	.0102376

te=total effect; cde=controlled direct effect; intref=reference interaction; intmed=mediated interaction; pie=

37 .

38 . save, replace

file E:\16GBBACKUPUSB\BACKUP\_USB\_SEPTEMBER2014\May Baydoun\_folder\UK\_BIOBANK\_PROJECT\UKB\_PAPER8C\_PERIODONTALDISEA

39 .

40 .

41 . capture log close