

Inconsistency test

FMA score

	Coef.	Std. Err.	z	P>|z|	[95% Conf. Interval]	
-----+-----						
_y_B |						
des_ABC	.2796837	1.865164	0.15	0.881	-3.37597	3.935338
des_ABE	-.6594264	1.889565	-0.35	0.727	-4.362906	3.044053
_cons	-.4656321	1.318048	-0.35	0.724	-3.048959	2.117695
-----+-----						
_y_C |						
des_BC	-2.187123	2.025809	-1.08	0.280	-6.157636	1.783389
des_BCF	-.6882747	2.289425	-0.30	0.764	-5.175465	3.798916
_cons	-.7666013	1.308809	-0.59	0.558	-3.33182	1.798617
-----+-----						
_y_D |						
_cons	-1.786511	1.854475	-0.96	0.335	-5.421215	1.848192
-----+-----						
_y_E |						
des_AE	-4.370374	1.95984	-2.23	0.026	-8.211589	-.5291588
_cons	-1.900712	1.359938	-1.40	0.162	-4.566142	.7647171
-----+-----						
_y_F |						
des_BF	-.2862894	1.498828	-0.19	0.849	-3.223938	2.651359
_cons	-1.827091	1.879622	-0.97	0.331	-5.511082	1.8569
-----+-----						
_y_G |						
_cons	-1.460916	1.436179	-1.02	0.309	-4.275775	1.353943
-----+-----						
_y_H |						
_cons	-2.930103	1.912498	-1.53	0.126	-6.678531	.8183238
-----+-----						

Estimated between-studies SDs and correlation matrix:

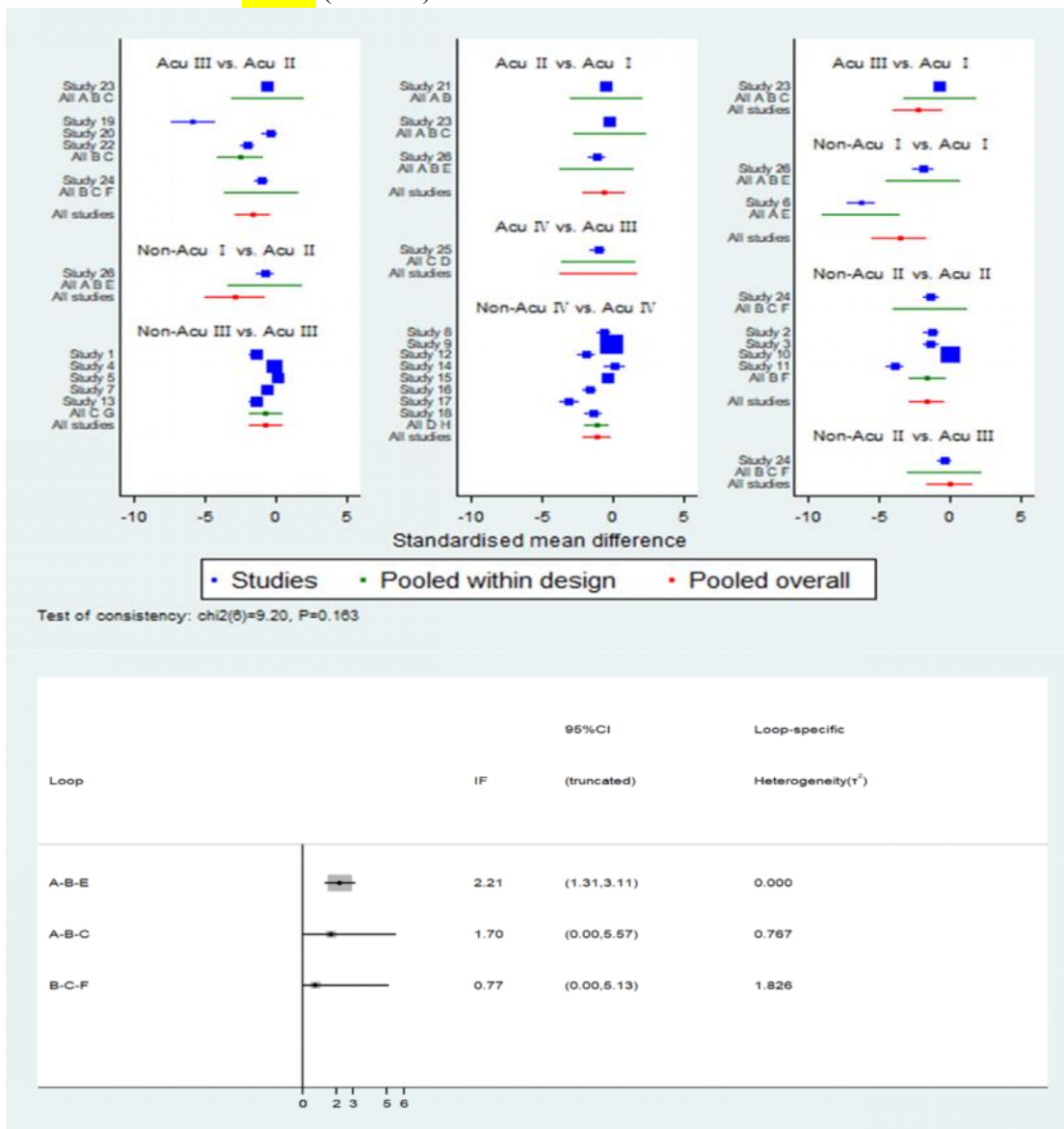
	SD	_y_B	_y_C	_y_D	_y_E	_y_F
_y_B	1.3111522	1	.	.	.	.
_y_C	1.3111522	.5	1	.	.	.
_y_D	1.3111522	.5	.5	1	.	.
_y_E	1.3111522	.5	.5	.5	1	.
_y_F	1.3111522	.5	.5	.5	.5	1
_y_G	1.3111522	.5	.5	.5	.5	.5
_y_H	1.3111522	.5	.5	.5	.5	.5

	_y_G	_y_H
_y_B	.	.
_y_C	.	.
_y_D	.	.
_y_E	.	.
_y_F	.	.
_y_G	1	.
_y_H	.5	1

Testing for inconsistency:

- (1) [y_B]des_ABC = 0
- (2) [y_B]des_ABE = 0
- (3) [y_E]des_AE = 0
- (4) [y_C]des_BC = 0
- (5) [y_C]des_BCF = 0

(6) $[_y_F]_{des_BF} = 0$
 $\chi^2(6) = 9.20$
 $Prob > \chi^2 = 0.1628 (P > 0.05)$



node-splitting method

network sidesplit all, tau

Side	Direct		Indirect		Difference			
> tau	Coef.	Std. Err.	Coef.	Std. Err.	Coef.	Std. Err.	P>|z|	
A B *	-.6046231	.8302063	-1.27204	2.212622	.6674165	2.364237	0.778	
>	1.416048							
A C	-.8116149	1.367825	-3.361067	1.146242	2.549452	1.784635	0.153	
>	1.3549							
A E *	-4.010186	1.012269	.4131013	3.02752	-4.423287	3.193982	0.166	
>	1.359909							
B C *	-1.794434	.6546865	.0357711	2.073086	-1.830205	2.175106	0.400	
>	1.404806							
B E	-.7827754	1.270185	-5.800338	1.515638	5.017563	1.976339	0.011	
>	1.227886							
B F *	-1.594464	.6466599	-2.929575	2.876729	1.335111	2.948713	0.651	
>	1.420205							
C D *	-1.055014	1.417725	2.967339	11.05955	-4.022353	11.15004	0.718	
>	1.387778							
C F	-.3728427	1.448832	.1456288	1.023461	-.5184715	1.773856	0.770	
>	1.424098							
C G *	-.6955151	.6274724	4.642555	28.36172	-5.33807	28.36865	0.851	
>	1.386957							
D H *	-1.146611	.5008418	6.784745	22.62764	-7.931356	22.6332	0.726	
>	1.387714							

BI

	Coef.	Std. Err.	z	P>|z|	[95% Conf. Interval]	
-----+-----						
<u>y_B</u> |						
des_ABE	-.4973529	1.677255	-0.30	0.767	-3.784712	2.790007
_cons	-.4802088	.9519998	-0.50	0.614	-2.346094	1.385677
-----+-----						
<u>y_C</u> |						
des_BC	-1.227292	1.25033	-0.98	0.326	-3.677894	1.223309
des_BCF	-.3578847	1.670856	-0.21	0.830	-3.632703	2.916934
_cons	-1.128941	.9585788	-1.18	0.239	-3.00772	.7498393
-----+-----						
<u>y_D</u> |						
des_CD	.0500744	2.152433	0.02	0.981	-4.168616	4.268765
_cons	-2.389639	1.648508	-1.45	0.147	-5.620655	.8413771
-----+-----						
<u>y_E</u> |						
des_AE	1.020677	1.594008	0.64	0.522	-2.103521	4.144875
_cons	-1.605004	1.387056	-1.16	0.247	-4.323584	1.113576
-----+-----						
<u>y_F</u> |						
des_BDF	-1.653481	1.946843	-0.85	0.396	-5.469224	2.162262
des_BF	-1.156487	1.482908	-0.78	0.435	-4.062933	1.749959
_cons	-1.885692	1.668602	-1.13	0.258	-5.156092	1.384708
-----+-----						
<u>y_G</u> |						
_cons	-1.880852	1.173875	-1.60	0.109	-4.181604	.4199007
-----+-----						
<u>y_H</u> |						
_cons	-3.50704	1.698179	-2.07	0.039	-6.835411	-.17867
-----+-----						

Estimated between-studies SDs and correlation matrix:

	SD	<u>y_B</u>	<u>y_C</u>	<u>y_D</u>	<u>y_E</u>	<u>y_F</u>
<u>y_B</u>	1.3408887	1	.	.	.	.
<u>y_C</u>	1.3408887	.5	1	.	.	.
<u>y_D</u>	1.3408887	.5	.5	1	.	.
<u>y_E</u>	1.3408887	.5	.5	.5	1	.
<u>y_F</u>	1.3408887	.5	.5	.5	.5	1
<u>y_G</u>	1.3408887	.5	.5	.5	.5	.5
<u>y_H</u>	1.3408887	.5	.5	.5	.5	.5

	<u>y_G</u>	<u>y_H</u>
<u>y_B</u>	.	.
<u>y_C</u>	.	.
<u>y_D</u>	.	.
<u>y_E</u>	.	.
<u>y_F</u>	.	.
<u>y_G</u>	1	.
<u>y_H</u>	.5	1

Testing for inconsistency:

- (1) [y_B]des_ABE = 0
- (2) [y_E]des_AE = 0
- (3) [y_C]des_BC = 0
- (4) [y_C]des_BCF = 0

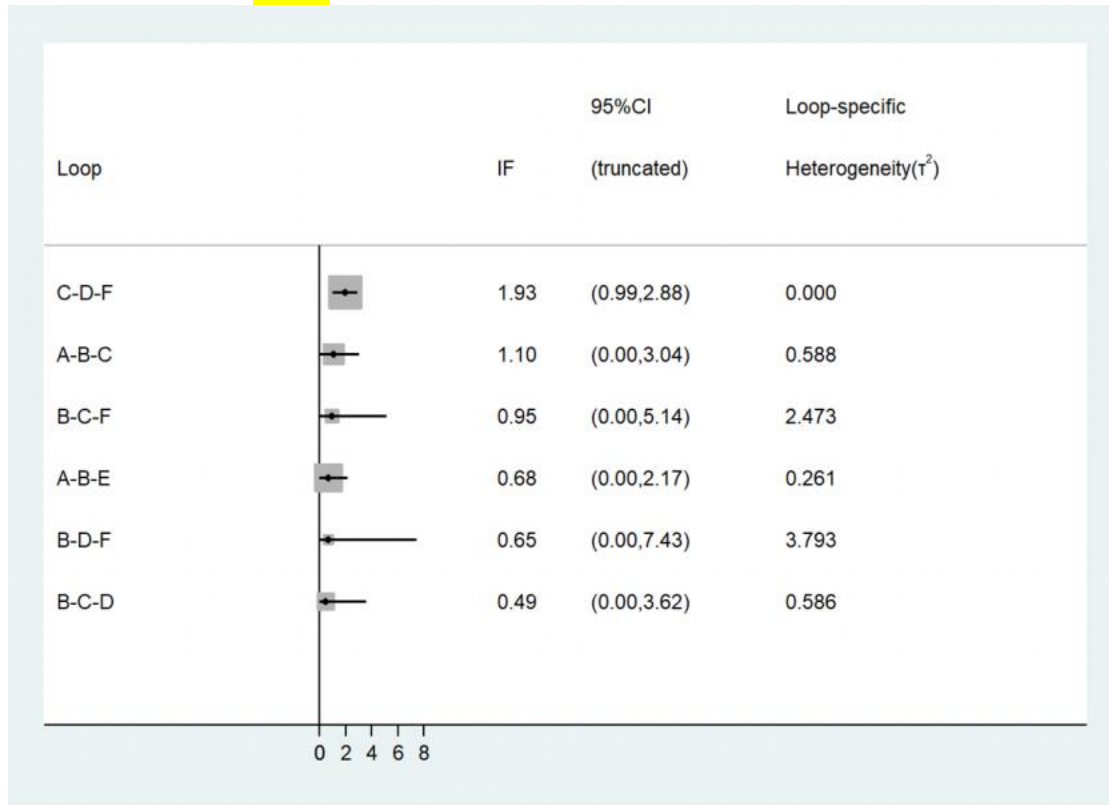
(5) [y_F]des_BDF = 0

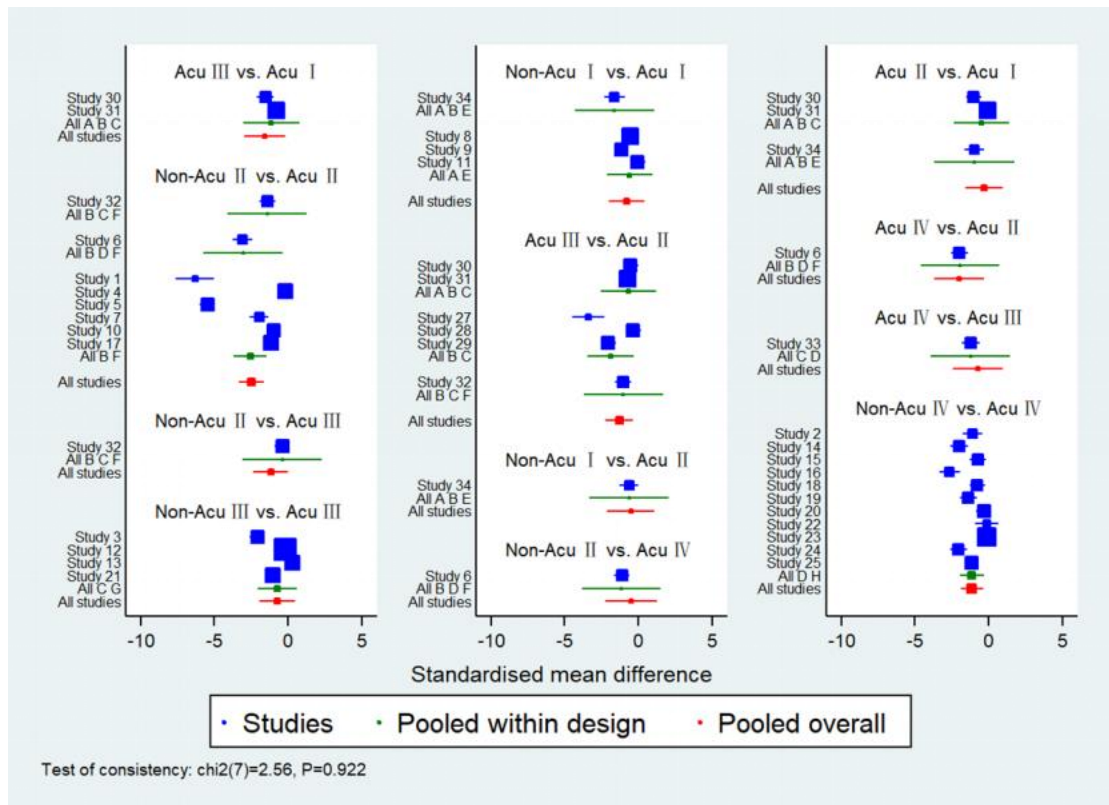
(6) [y_F]des_BF = 0

(7) [y_D]des_CD = 0

$\chi^2(7) = 2.56$

Prob > $\chi^2 = 0.9222 (P > 0.05)$





network meta c

Command is: `mvmeta _y_S , bscovariance(exch 0.5) longparm suppress(uv mm) var > s(_y_B _y_C _y_D _y_E _y_F _y_G _y_H)`

Note: using method `reml`

Note: using variables `_y_B _y_C _y_D _y_E _y_F _y_G _y_H`

Note: 33 observations on 7 variables

Note: variance-covariance matrix is proportional to $.5*I(7)+.5*J(7,7,1)$

```
initial:  log likelihood = -176.29395
rescale:  log likelihood = -176.29395
rescale eq: log likelihood = -176.29395
Iteration 0: log likelihood = -176.29395
Iteration 1: log likelihood = -175.12732
Iteration 2: log likelihood = -175.12285
Iteration 3: log likelihood = -175.12285
```

Multivariate meta-analysis

Variance-covariance matrix = proportional $.5*I(7)+.5*J(7,7,1)$

Method = `reml` Number of dimensions = 7

Restricted log likelihood = -175.12285 Number of observations = 33

	Coef.	Std. Err.	z	P>|z|	[95% Conf. Interval]	
<code>_y_B</code>						
<code>_cons</code>	-0.2970905	.653052	-0.45	0.649	-1.577049	.9828679
<code>_y_C</code>						
<code>_cons</code>	-1.589337	.7050451	-2.25	0.024	-2.9712	-.2074739
<code>_y_D</code>						

_cons	-2.294763	1.040882	-2.20	0.027	-4.334855	-.2546708

_y_E						
_cons	-.786651	.6110824	-1.29	0.198	-1.98435	.4110485

_y_F						
_cons	-2.772305	.7748359	-3.58	0.000	-4.290956	-1.253655

_y_G						
_cons	-2.340201	.94006	-2.49	0.013	-4.182684	-.4977168

_y_H						
_cons	-3.411968	1.107416	-3.08	0.002	-5.582464	-1.241473

Estimated between-studies SDs and correlation matrix:

	SD	_y_B	_y_C	_y_D	_y_E	_y_F
_y_B	1.2263923	1	.	.	.	.
_y_C	1.2263923	.5	1	.	.	.
_y_D	1.2263923	.5	.5	1	.	.
_y_E	1.2263923	.5	.5	.5	1	.
_y_F	1.2263923	.5	.5	.5	.5	1
_y_G	1.2263923	.5	.5	.5	.5	.5
_y_H	1.2263923	.5	.5	.5	.5	.5

	_y_G	_y_H
_y_B	.	.
_y_C	.	.
_y_D	.	.
_y_E	.	.
_y_F	.	.
_y_G	1	.
_y_H	.5	1

node-splitting method

. network sidesplit all, tau

Side	Direct		Indirect		Difference			
> tau	Coef.	Std. Err.	Coef.	Std. Err.	Coef.	Std. Err.	P>|z|	
A B *	-.675735	.720974	1.344994	1.503955	-2.020729	1.668702	0.226	
>	1.220002							
A C	-1.158503	.8886987	-2.344267	1.176003	1.185763	1.473905	0.421	
>	1.233825							
A E *	-.831221	.6378405	.0400781	2.754516	-.8712992	2.828081	0.758	
>	1.247739							
B C	-1.299732	.5258777	-1.258961	1.274566	-.0407708	1.378936	0.976	
>	1.249368							
B D	-1.959711	1.284373	-2.032281	1.198019	.0725702	1.763002	0.967	
>	1.249065							
B E	-.6224042	1.288722	-.3961399	1.091781	-.2262642	1.689202	0.893	
>	1.248866							
B F *	-2.471984	.4575521	-2.612188	2.156454	.1402043	2.204932	0.949	
>	1.249114							
C D	-1.212226	1.277668	-.2473089	1.213503	-.9649169	1.762107	0.584	
>	1.242928							
C F	-.4005168	1.266846	-1.422909	.7002283	1.022392	1.44753	0.480	
>	1.23893							
C G *	-.7523814	.6225664	3.177249	31.67218	-3.92963	31.67829	0.901	
>	1.226479							
D F	-1.118944	1.264493	.1787851	1.281169	-1.297729	1.804348	0.472	
>	1.234906							
D H *	-1.119467	.3805079	4.638285	19.19469	-5.757752	19.19846	0.764	
>	1.226712							