```
                                                                  ___  ____  ____  ____  ____(R)
                                                                 /__    /   ____/   /   ____/
                                                                ___/   /   /___/   /   /___/
                                                                  Statistics/Data analysis

     MINI_O_GADC │    0.2698   -0.4885   -0.1695    1.1034
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>  CCA results 29 09 2023.smcl
  log type:  smcl
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. canon (   BN_New_Girls  MINI_A_MDEC MINI_O_GADC MINI_C_SRC) ( neur_mean_r extr_mean_r open_mean_r  agre_mean_r cor
> _r  AS_r H_r IMP_r SS_r) , stdcoef

Canonical correlation analysis                      Number of obs =        110

Standardized coefficients for the first variable set

                │        1         2         3         4
────────────────┼────────────────────────────────────────
    BN_New_Girls │    0.2972    1.2718   -0.7104   -0.1568
     MINI_A_MDEC │    0.3183   -0.7723   -0.3584   -0.8455
     MINI_O_GADC │    0.2698   -0.4885   -0.1695    1.1034
      MINI_C_SRC │    0.3723   -0.1691    1.2518   -0.0394


Standardized coefficients for the second variable set

                │        1         2         3         4
────────────────┼────────────────────────────────────────
     neur_mean_r │    0.4936    0.1414   -0.9045   -0.2808
     extr_mean_r │   -0.0783    0.5201    0.0962    0.6722
     open_mean_r │    0.1245    0.0193    0.4163    0.3923
     agre_mean_r │    0.0030   -0.4720    0.4403   -0.7398
     cons_mean_r │    0.0875   -0.8640   -0.5171    0.6059
            AS_r │    0.1190    0.2172   -0.1937    0.3073
             H_r │    0.3838   -0.6981    0.9108    0.7336
           IMP_r │    0.2247   -0.3468    0.0388   -0.4192
            SS_r │    0.0078    0.3303   -0.2074   -0.1464

──────────────────────────────────────────────────────────────────────────────
Canonical correlations:
  0.8023  0.4356  0.3201  0.2547

──────────────────────────────────────────────────────────────────────────────
Tests of significance of all canonical correlations

                         Statistic      df1      df2           F     Prob>F
        Wilks' lambda     .242263       36  365.241      4.6652     0.0000 a
       Pillai's trace     1.00084       36      400      3.7079     0.0000 a
Lawley-Hotelling trace     2.2248       36      382      5.9019     0.0000 a
    Roy's largest root     1.80709        9      100     20.0787     0.0000 u
──────────────────────────────────────────────────────────────────────────────
                           e = exact, a = approximate, u = upper bound on F

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```

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. canon, test(1 2 3 4 )

Canonical correlation analysis                      Number of obs =        110

Raw coefficients for the first variable set
```

	1	2	3	4
BN_New_Girls	**0.5980**	**2.5592**	**-1.4295**	**-0.3154**
MINI_A_MDEC	**0.7042**	**-1.7089**	**-0.7930**	**-1.8709**
MINI_O_GADC	**0.5912**	**-1.0706**	**-0.3716**	**2.4183**
MINI_C_SRC	**0.7538**	**-0.3423**	**2.5343**	**-0.0797**

```
Raw coefficients for the second variable set
```

	1	2	3	4
neur_mean_r	**0.4546**	**0.1303**	**-0.8331**	**-0.2586**
extr_mean_r	**-0.0844**	**0.5606**	**0.1037**	**0.7245**
open_mean_r	**0.1287**	**0.0200**	**0.4303**	**0.4055**
agre_mean_r	**0.0030**	**-0.4702**	**0.4386**	**-0.7369**
cons_mean_r	**0.0930**	**-0.9177**	**-0.5492**	**0.6436**
AS_r	**0.1233**	**0.2251**	**-0.2007**	**0.3185**
H_r	**0.4178**	**-0.7600**	**0.9915**	**0.7986**
IMP_r	**0.2143**	**-0.3308**	**0.0370**	**-0.3998**
SS_r	**0.0077**	**0.3246**	**-0.2038**	**-0.1439**

```
Canonical correlations:
  0.8023  0.4356  0.3201  0.2547

Tests of significance of all canonical correlations

                       Statistic      df1      df2           F     Prob>F
        Wilks' lambda     .242263       36  365.241      4.6652     0.0000 a
       Pillai's trace     1.00084       36      400      3.7079     0.0000 a
Lawley-Hotelling trace      2.2248       36      382      5.9019     0.0000 a
    Roy's largest root     1.80709        9      100     20.0787     0.0000 u

Test of significance of canonical correlations 1-4

                       Statistic      df1      df2           F     Prob>F
        Wilks' lambda     .242263       36  365.241      4.6652     0.0000 a

Test of significance of canonical correlations 2-4

                       Statistic      df1      df2           F     Prob>F
        Wilks' lambda     .680054       24  284.831      1.6875     0.0254 a

Test of significance of canonical correlations 3-4

                       Statistic      df1      df2           F     Prob>F
        Wilks' lambda     .839304       14      198      1.2947     0.2132 e

Test of significance of canonical correlation 4

                       Statistic      df1      df2           F     Prob>F
        Wilks' lambda     .935127        6      100      1.1562     0.3359 e

                          e = exact, a = approximate, u = upper bound on F
```

```
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. estat loadings

Canonical loadings for variable list 1
```

	1	2	3	4
BN_New_Girls	**0.8584**	**0.4748**	**-0.1921**	**-0.0292**
MINI_A_MDEC	**0.7688**	**-0.3946**	**-0.2948**	**-0.4079**
MINI_O_GADC	**0.7399**	**-0.2305**	**-0.2327**	**0.5876**
MINI_C_SRC	**0.8075**	**0.1253**	**0.5739**	**-0.0538**

```
Canonical loadings for variable list 2
```

	1	2	3	4
neur_mean_r	**0.9411**	**0.0450**	**-0.1770**	**-0.1190**
extr_mean_r	**-0.4704**	**0.4129**	**0.1045**	**0.2620**
open_mean_r	**0.2342**	**0.2628**	**0.4033**	**0.2332**
agre_mean_r	**-0.4813**	**-0.3228**	**0.3673**	**-0.2781**
cons_mean_r	**-0.6219**	**-0.5150**	**-0.3987**	**0.3374**
AS_r	**0.4742**	**0.0381**	**-0.0987**	**0.2623**
H_r	**0.8690**	**-0.1385**	**0.2960**	**0.1252**
IMP_r	**0.5971**	**0.3023**	**-0.0997**	**-0.2547**
SS_r	**0.1613**	**0.5339**	**-0.0444**	**-0.0654**

```
Correlation between variable list 1 and canonical variates from list 2
```

	1	2	3	4
BN_New_Girls	**0.6887**	**0.2068**	**-0.0615**	**-0.0074**
MINI_A_MDEC	**0.6168**	**-0.1719**	**-0.0944**	**-0.1039**
MINI_O_GADC	**0.5936**	**-0.1004**	**-0.0745**	**0.1497**
MINI_C_SRC	**0.6479**	**0.0546**	**0.1837**	**-0.0137**

```
Correlation between variable list 2 and canonical variates from list 1
```

	1	2	3	4
neur_mean_r	**0.7551**	**0.0196**	**-0.0567**	**-0.0303**
extr_mean_r	**-0.3774**	**0.1799**	**0.0334**	**0.0667**
open_mean_r	**0.1879**	**0.1145**	**0.1291**	**0.0594**
agre_mean_r	**-0.3862**	**-0.1406**	**0.1176**	**-0.0708**
cons_mean_r	**-0.4990**	**-0.2243**	**-0.1276**	**0.0859**
AS_r	**0.3805**	**0.0166**	**-0.0316**	**0.0668**
H_r	**0.6972**	**-0.0603**	**0.0948**	**0.0319**
IMP_r	**0.4791**	**0.1317**	**-0.0319**	**-0.0649**
SS_r	**0.1295**	**0.2325**	**-0.0142**	**-0.0167**

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Canonical redundancy analysis for canonical correlation 1

Canonical correlation coefficient          0.8023
Squared canonical correlation coefficient  0.6438

                                      own    opposite
Proportion of standardized variance  variate   variate
           of u variables with ...    0.6318    0.4067
           of v variables with ...    0.2942    0.1894
```

```
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. canred 2

Canonical redundancy analysis for canonical correlation 2

Canonical correlation coefficient          0.4356
Squared canonical correlation coefficient  0.1897

                                      own    opposite
Proportion of standardized variance  variate   variate
           of u variables with ...    0.1125    0.0213
           of v variables with ...    0.1164    0.0221

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Linear combinations for canonical correlations      Number of obs =        110
```

	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
u1						
BN_New_Girls	.5980369	.2183982	2.74	0.007	.1651787	1.030895
MINI_A_MDEC	.7042098	.1994145	3.53	0.001	.3089767	1.099443
MINI_O_GADC	.5912368	.1985752	2.98	0.004	.1976673	.9848063
MINI_C_SRC	.7538202	.1936395	3.89	0.000	.3700331	1.137607
v1						
neur_mean_r	.4546362	.1196814	3.80	0.000	.2174316	.6918408
extr_mean_r	-.0843888	.1004225	-0.84	0.403	-.283423	.1146454
open_mean_r	.1287238	.0848923	1.52	0.132	-.0395299	.2969776
agre_mean_r	.0030323	.0962634	0.03	0.975	-.1877586	.1938232
cons_mean_r	.0929916	.1133702	0.82	0.414	-.1317044	.3176877
AS_r	.12331	.0888596	1.39	0.168	-.0528069	.2994269
H_r	.417813	.1359306	3.07	0.003	.1484029	.6872232
IMP_r	.2142799	.1025452	2.09	0.039	.0110386	.4175212
SS_r	.007691	.0916026	0.08	0.933	-.1738624	.1892444
u2						
BN_New_Girls	2.559228	.6066951	4.22	0.000	1.356778	3.761678
MINI_A_MDEC	-1.708913	.5539597	-3.08	0.003	-2.806843	-.6109832
MINI_O_GADC	-1.07063	.551628	-1.94	0.055	-2.163938	.0226793
MINI_C_SRC	-.3423189	.537917	-0.64	0.526	-1.408453	.7238151
v2						
neur_mean_r	.1302736	.3324665	0.39	0.696	-.5286642	.7892114
extr_mean_r	.5605961	.2789668	2.01	0.047	.0076929	1.113499
open_mean_r	.019983	.2358249	0.08	0.933	-.4474143	.4873803
agre_mean_r	-.4701637	.267413	-1.76	0.082	-1.000168	.0598401
cons_mean_r	-.9177278	.3149346	-2.91	0.004	-1.541918	-.2935377
AS_r	.2251292	.2468459	0.91	0.364	-.2641113	.7143698
H_r	-.7599575	.3776059	-2.01	0.047	-1.50836	-.0115549
IMP_r	-.3308013	.2848635	-1.16	0.248	-.8953915	.2337888
SS_r	.3245752	.2544657	1.28	0.205	-.1797676	.8289179
u3						
BN_New_Girls	-1.429535	.8688851	-1.65	0.103	-3.151637	.2925668
MINI_A_MDEC	-.7930353	.7933594	-1.00	0.320	-2.365448	.7793772
MINI_O_GADC	-.3716044	.7900202	-0.47	0.639	-1.937399	1.19419
MINI_C_SRC	2.534346	.7703837	3.29	0.001	1.00747	4.061221
v3						
neur_mean_r	-.8331194	.4761456	-1.75	0.083	-1.776824	.1105856
extr_mean_r	.1037207	.3995254	0.26	0.796	-.6881257	.8955671
open_mean_r	.430299	.3377392	1.27	0.205	-.2390891	1.099687
agre_mean_r	.4386083	.3829785	1.15	0.255	-.3204426	1.197659
cons_mean_r	-.549238	.451037	-1.22	0.226	-1.443179	.3447027
AS_r	-.2006913	.3535231	-0.57	0.571	-.9013625	.4999799
H_r	.991453	.5407924	1.83	0.069	-.08038	2.063286

IMP_r	.037012	.4079704	0.09	0.928	-.7715719	.845596
SS_r	-.2038053	.3644358	-0.56	0.577	-.9261052	.5184947
u4						
BN_New_Girls	-.3154441	1.114657	-0.28	0.778	-2.524659	1.893771
MINI_A_MDEC	-1.870879	1.017769	-1.84	0.069	-3.888063	.1463053
MINI_O_GADC	2.418286	1.013485	2.39	0.019	.4095921	4.42698
MINI_C_SRC	-.0796977	.988294	-0.08	0.936	-2.038464	1.879069
v4						
neur_mean_r	-.2586485	.6108278	-0.42	0.673	-1.469289	.9519924
extr_mean_r	.7244825	.512535	1.41	0.160	-.2913451	1.74031
open_mean_r	.4055049	.4332719	0.94	0.351	-.453226	1.264236
agre_mean_r	-.7369384	.4913075	-1.50	0.137	-1.710694	.2368171
cons_mean_r	.6435717	.5786171	1.11	0.268	-.5032286	1.790372
AS_r	.3184503	.4535204	0.70	0.484	-.5804124	1.217313
H_r	.798582	.6937607	1.15	0.252	-.576429	2.173593
IMP_r	-.3997932	.5233686	-0.76	0.447	-1.437093	.6375064
SS_r	-.1438608	.46752	-0.31	0.759	-1.07047	.7827485

(Standard errors estimated conditionally)

Canonical correlations:
0.8023 0.4356 0.3201 0.2547

Tests of significance of all canonical correlations

	Statistic	df1	df2	F	Prob>F	
Wilks' lambda	.242263	36	365.241	4.6652	0.0000	a
Pillai's trace	1.00084	36	400	3.7079	0.0000	a
Lawley-Hotelling trace	2.2248	36	382	5.9019	0.0000	a
Roy's largest root	1.80709	9	100	20.0787	0.0000	u

e = exact, a = approximate, u = upper bound on F

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>  CCA results 29 09 2023.smcl
  log type:  smcl
 closed on:  29 Sep 2023, 11:31:47
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