

```

name: <unnamed>
log: /Users/theresarossouw/Desktop/Correlation.smcl
log type: smcl
opened on: 17 Aug 2022, 14:49:24

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```

1 . do "/var/folders/31/x9ydjyz56s78dldtzmgggcjm0000gn/T//SD00473.000000"
2 . spearman HC_0 Age MWeight MMUAC MCD4 BMI, stats(rho obs p) star(0.05)

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Key
<i>rho</i>
<i>Number of obs</i>
<i>Sig. level</i>

	HC_0	Age	MWeight	MMUAC	MCD4	BMI
HC_0	1.0000 6					
Age	-0.5508 6 0.2574	1.0000 6				
MWeight	-0.5798 6 0.2278	0.2000 6 0.7040	1.0000 6			
MMUAC	0.0588 6 0.9119	-0.6667 6 0.1481	0.4638 6 0.3542	1.0000 6		
MCD4	-0.0580 6 0.9131	0.0286 6 0.9572	-0.5429 6 0.2657	-0.4058 6 0.4247	1.0000 6	
BMI	0.3189 6 0.5379	-0.0286 6 0.9572	0.3714 6 0.4685	0.1449 6 0.7841	-0.1429 6 0.7872	1.0000 6

```

3 . spearman HC_0 Weight_0 Length_0 W4L_0, stats(rho obs p) star(0.05)

```

Key
<i>rho</i>
<i>Number of obs</i>
<i>Sig. level</i>

	HC_0	Weight_0	Length_0	W4L_0
HC_0	1.0000 16			
Weight_0	0.3813 16 0.1451	1.0000 16		
Length_0	0.1488 16 0.5824	0.4569 16 0.0752	1.0000 16	
W4L_0	0.2399 16 0.3708	0.9080* 16 0.0000	0.2112 16 0.4324	1.0000 16

```

4 . *HC not correlated with mother or infant anthropometry
5 .

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6 . spearman HC_0 IL8_C0 IL10_C0 IL6_C0 TNFa_C0 IFNg_C0 IL2_C0 IL4_C0 GMCSF_C0 IL8_LPS0 IL10_LPS0 IL6_LPS0 TNFa_LPS0 IFNg_LPS0 IL2_LPS0 IL4_LPS0 GMCSF_LPS0 IL8_poly0
> IL10_poly0 IL6_poly0 TNFa_poly0 IFNg_poly0 IL2_poly0 IL4_poly0 GMCSF_poly0, stats(rho obs p) star(0.05)

```

Key
<i>rho</i>
<i>Number of obs</i>
<i>Sig. level</i>

	HC_0	IL8_C0	IL10_C0	IL6_C0	TNFa_C0	IFNg_C0	IL2_C0	IL4_C0	GMCSF_C0	IL8_LPS0	IL10_LPS0	IL6_LPS0	TNFa_LPS0	IFNg_LPS0
HC_0	1.0000 18													
IL8_C0	0.2331 18 0.3518	1.0000 18												
IL10_C0	0.3432 18 0.1633	0.4504 18 0.0607	1.0000 18											

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IFNg_LPS10	-0.2789 13 0.3561	-0.1856 13 0.5438	-0.1817 13 0.5525	-0.1911 13 0.5316	-0.1440 13 0.6387	0.2538 13 0.4028	0.6517* 13 0.0158	0.5133 13 0.0728	0.1480 13 0.6293	0.0886 13 0.7734	-0.0416 13 0.8928	-0.2992 13 0.3207	-0.0859 13 0.7803	1.0000 13	
IL2_LPS10	-0.0087 13 0.9774	-0.4479 13 0.1248	-0.0449 13 0.8843	-0.1589 13 0.6040	-0.2630 13 0.3854	0.3106 13 0.3017	0.3414 13 0.2537	0.0655 13 0.8317	0.4881 13 0.0906	-0.5317 13 0.0615	-0.1358 13 0.6582	-0.5173 13 0.0703	-0.4999 13 0.0819	0.2142 13 0.4823	
IL4_LPS10	0.0720 13 0.8151	-0.0633 13 0.8373	0.0055 13 0.9857	0.0825 13 0.7887	-0.0660 13 0.8303	-0.0706 13 0.8188	0.3487 13 0.2429	0.8200* 13 0.0006	-0.0666 13 0.8289	-0.1265 13 0.6804	0.0605 13 0.8443	0.0000 13 1.0000	0.0495 13 0.8724	0.2677 13 0.3766	
GMCSF_LPS10	-0.2420 13 0.4257	0.3370 13 0.2601	0.3015 13 0.3167	0.2818 13 0.3510	0.3370 13 0.2601	0.0877 13 0.7757	0.1036 13 0.7362	0.2197 13 0.4707	0.2730 13 0.3669	0.4586 13 0.1150	0.5635* 13 0.0449	0.3204 13 0.2858	0.5304 13 0.0622	0.5515 13 0.0507	
IL8_poly10	0.1107 13 0.7189	0.6813* 13 0.0103	0.4567 13 0.1167	0.3187 13 0.2886	0.6154* 13 0.0252	0.0671 13 0.8276	-0.4875 13 0.0911	-0.0166 13 0.9571	-0.1163 13 0.7050	0.7637* 13 0.0024	0.6758* 13 0.0112	0.5989* 13 0.0306	0.8022* 13 0.0010	0.0693 13 0.8221	
IL10_poly10	0.2241 13 0.4618	0.4615 13 0.1124	0.8858* 13 0.0001	0.8022* 13 0.0010	0.6703* 13 0.0122	0.1812 13 0.5536	-0.1393 13 0.6499	0.3486 13 0.2431	0.3352 13 0.2629	0.0330 13 0.9149	0.5220 13 0.0673	0.2088 13 0.4936	0.3736 13 0.2086	0.0305 13 0.9213	
IL6_poly10	0.2036 13 0.5047	0.3714 13 0.2115	0.6419* 13 0.0180	0.5007 13 0.0814	0.4814 13 0.0958	0.1411 13 0.6456	-0.0404 13 0.8956	0.2438 13 0.4222	0.3828 13 0.1967	0.3109 13 0.3012	0.4897 13 0.0894	0.3274 13 0.2749	0.5309 13 0.0619	0.2774 13 0.3588	
TNFa_poly10	0.2490 13 0.4121	0.4560 13 0.1173	0.5970* 13 0.0312	0.3681 13 0.2159	0.5879* 13 0.0346	0.3087 13 0.3048	-0.3594 13 0.2278	-0.0221 13 0.9428	0.1801 13 0.5561	0.3956 13 0.1809	0.6264* 13 0.0220	0.2912 13 0.3344	0.5275 13 0.0640	0.0859 13 0.7803	
IFNg_poly10	-0.2469 13 0.4162	0.2535 13 0.4033	0.3264 13 0.2764	0.5404 13 0.0565	0.2646 13 0.3822	-0.0851 13 0.7823	0.3263 13 0.2766	0.3436 13 0.2503	0.2317 13 0.4462	0.0334 13 0.9137	0.0529 13 0.8636	0.0919 13 0.7652	0.1142 13 0.7102	0.3132 13 0.2974	
IL2_poly10	-0.3020 13 0.3160	-0.2650 13 0.3815	0.1327 13 0.6656	0.1032 13 0.7372	-0.0614 13 0.8421	0.0750 13 0.8077	0.6124* 13 0.0261	0.4804 13 0.0966	0.4177 13 0.1555	-0.3041 13 0.3125	-0.1646 13 0.5910	-0.3487 13 0.2429	-0.2092 13 0.4927	0.7061* 13 0.0070	
IL4_poly10	-0.1328 13 0.6654	-0.0055 13 0.9858	0.0990 13 0.7475	0.1648 13 0.5905	0.1154 13 0.7074	-0.1409 13 0.6461	0.4402 13 0.1323	0.9240* 13 0.0000	-0.1302 13 0.6716	-0.0220 13 0.9432	-0.0549 13 0.8585	-0.0330 13 0.9149	0.1264 13 0.6808	0.4321 13 0.1403	
GMCSF_poly10	-0.2479 13 0.4141	-0.0332 13 0.9143	0.0305 13 0.9213	0.0443 13 0.8858	0.1134 13 0.7122	0.3041 13 0.3124	0.4544 13 0.1188	0.1031 13 0.7376	0.6527* 13 0.0156	0.0360 13 0.9071	0.0083 13 0.9785	-0.1660 13 0.5879	0.0332 13 0.9143	0.4881 13 0.0906	
	IL2_L-10	IL4_L-10	GMCSF-S10	IL8_p-10	IL10-y10	IL6_p-10	TNFa-y10	IFNg-y10	IL2_p-10	IL4_p-10	GMCSF-y10				
IL2_LPS10	1.0000 13														
IL4_LPS10	0.2055 13 0.5007	1.0000 13													
GMCSF_LPS10	0.0262 13 0.9324	0.0996 13 0.7462	1.0000 13												
IL8_poly10	-0.3497 13 0.2416	-0.1376 13 0.6541	0.6354* 13 0.0196	1.0000 13											
IL10_poly10	-0.0029 13 0.9925	0.1733 13 0.5712	0.4972 13 0.0838	0.5220 13 0.0673	1.0000 13										
IL6_poly10	0.0318 13 0.9178	0.0771 13 0.8022	0.7109* 13 0.0064	0.7015* 13 0.0075	0.8253* 13 0.0005	1.0000 13									
TNFa_poly10	-0.0809 13 0.7927	-0.1733 13 0.5712	0.5304 13 0.0622	0.8297* 13 0.0005	0.7363* 13 0.0041	0.8143* 13 0.0007	1.0000 13								
IFNg_poly10	-0.1011 13 0.7424	0.1437 13 0.6396	0.5434 13 0.0549	0.0641 13 0.8353	0.3064 13 0.3085	0.2413 13 0.4271	-0.1421 13 0.6434	1.0000 13							
IL2_poly10	0.6353* 13 0.0196	0.2486 13 0.4127	0.4068 13 0.1678	-0.1283 13 0.6761	0.1785 13 0.5595	0.3450 13 0.2483	-0.0112 13 0.9711	0.3989 13 0.1770	1.0000 13						
IL4_poly10	0.0520 13 0.8660	0.8446* 13 0.0003	0.1878 13 0.5388	0.0220 13 0.9432	0.1593 13 0.6031	0.1018 13 0.7407	-0.1044 13 0.7343	0.2953 13 0.3273	0.3822 13 0.1975	1.0000 13					
GMCSF_poly10	0.0524 13 0.8651	0.0582 13 0.8503	0.6871* 13 0.0095	0.1992 13 0.5142	0.1853 13 0.5444	0.3809 13 0.1991	0.2213 13 0.4675	0.3983 13 0.1776	0.2655 13 0.3807	0.1162 13 0.7054	1.0000 13				

9 . *No significant correlations with HC.

```
10 . spearman HC_6 IL8_C6 IL10_C6 IL6_C6 TNFa_C6 IFNg_C6 IL2_C6 IL4_C6 GMCSF_C6 IL8_LPS6 IL10_LPS6 IL6_LPS6 TNFa_LPS6 IFNg_LPS6 IL2_LPS6 IL4_LPS6 GMCSF_LPS6 IL8_poly6
> IL10_poly6 IL6_poly6 TNFa_poly6 IFNg_poly6 IL2_poly6 IL4_poly6 GMCSF_poly6, stats(rho obs p) star(0.05)
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Key
<i>rho</i>
<i>Number of obs</i>
<i>Sig. level</i>

	HC_6	IL8_C6	IL10_C6	IL6_C6	TNFa_C6	IFNg_C6	IL2_C6	IL4_C6	GMCSF_C6	IL8_LPS6	IL10_L-6	IL6_LPS6	TNFa_L-6	IFNg_L-6
HC_6	1.0000 21													
IL8_C6	-0.2762 21 0.2255	1.0000 21												
IL10_C6	-0.2763 21 0.2253	0.7360* 21	1.0000 21											
IL6_C6	-0.1930 21 0.4018	0.7494* 21	0.9178* 21	1.0000 21										
TNFa_C6	-0.2613 21 0.2526	0.8338* 21	0.8042* 21	0.8195* 21	1.0000 21									
IFNg_C6	-0.2706 21 0.2355	0.2352 21	0.1621 21	0.1022 21	0.2205 21	1.0000 21								
IL2_C6	-0.4217 21 0.0569	-0.0879 21	-0.0832 21	0.0014 21	0.1258 21	0.1956 21	1.0000 21							
IL4_C6	0.1423 21 0.5382	-0.0532 21	0.1565 21	0.1909 21	-0.1039 21	0.2686 21	-0.2570 21	1.0000 21						
GMCSF_C6	-0.0487 21 0.8340	0.1992 21	0.3649 21	0.3983 21	0.2774 21	0.2855 21	0.0390 21	0.0513 21	1.0000 21					
IL8_LPS6	0.0715 21 0.7581	0.4052 21	0.2994 21	0.0935 21	0.1494 21	0.1524 21	-0.4909* 21	-0.0026 21	0.0276 21	1.0000 21				
IL10_LPS6	-0.0247 21 0.9153	0.1851 21	0.3678 21	0.1572 21	0.0968 21	0.0435 21	-0.5357* 21	0.0968 21	0.2689 21	0.6749* 21	1.0000 21			
IL6_LPS6	-0.0442 21 0.8491	0.2571 21	0.3690 21	0.1312 21	0.1636 21	0.1149 21	-0.4544* 21	0.0494 21	-0.0243 21	0.7156* 21	0.8886* 21	1.0000 21		
TNFa_LPS6	0.0637 21 0.7838	0.1597 21	0.3748 21	0.1610 21	0.1013 21	0.1417 21	-0.4531* 21	0.2610 21	-0.0736 21	0.6208* 21	0.7847* 21	0.9039* 21	1.0000 21	
IFNg_LPS6	-0.0003 21 0.9989	0.0100 21	0.0828 21	0.0928 21	-0.1536 21	0.4928* 21	0.1092 21	0.3052 21	0.2417 21	-0.0534 21	-0.1283 21	-0.0561 21	0.0180 21	1.0000 21
IL2_LPS6	-0.4325 21 0.0502	-0.1029 21	-0.1274 21	-0.0569 21	0.1070 21	0.1317 21	0.9605* 21	-0.3589 21	-0.0733 21	-0.4808* 21	-0.5501* 21	-0.4564* 21	-0.4388* 21	0.0028 21
IL4_LPS6	0.1112 21 0.6314	0.0065 21	0.1845 21	0.2410 21	-0.0812 21	0.2012 21	-0.2300 21	0.9743* 21	0.0618 21	-0.0500 21	0.0906 21	0.0325 21	0.2670 21	0.2986 21
GMCSF_LPS6	-0.0953 21 0.6813	0.2570 21	0.3978 21	0.3022 21	0.1720 21	0.3689 21	-0.0858 21	0.1615 21	0.5492* 21	0.4532* 21	0.4455* 21	0.2819 21	0.2734 21	0.1365 21
IL8_poly6	-0.0682 21 0.7688	0.9130* 21	0.6067* 21	0.7156* 21	0.7688* 21	0.1043 21	-0.1596 21	0.0234 21	0.1413 21	0.2870 21	0.0870 21	0.1506 21	0.1000 21	-0.1336 21
IL10_poly6	-0.1977 21 0.3904	0.8048* 21	0.7648* 21	0.8308* 21	0.8094* 21	0.3125 21	0.0020 21	0.1617 21	0.4629* 21	0.3228 21	0.3769 21	0.3339 21	0.2800 21	0.0114 21
IL6_poly6	-0.1488 21 0.5196	0.7662* 21	0.8113* 21	0.9545* 21	0.8234* 21	0.1263 21	0.0325 21	0.1792 21	0.3471 21	0.0844 21	0.1475 21	0.1234 21	0.1351 21	0.0154 21
TNFa_poly6	-0.0520 21 0.8229	0.7571* 21	0.6593* 21	0.7753* 21	0.8506* 21	-0.0147 21	-0.0974 21	-0.0481 21	0.2005 21	0.0143 21	0.0227 21	0.0455 21	0.0571 21	-0.1890 21
IFNg_poly6	0.0724 21 0.7550	-0.0283 21	0.3014 21	0.1619 21	-0.0533 21	0.3050 21	-0.0980 21	0.4481* 21	0.0763 21	0.1119 21	0.1142 21	0.1105 21	0.3652 21	0.4222 21
IL2_poly6	-0.3565 21 0.1127	0.1726 21	0.0199 21	0.1176 21	0.3375 21	0.1235 21	0.8305* 21	-0.5170* 21	0.0585 21	-0.2674 21	-0.4779* 21	-0.3953 21	-0.4173 21	-0.1573 21
	0.4545	0.9316	0.6118	0.1345	0.5939	0.0000	0.0164	0.8013	0.2412	0.0284	0.0761	0.0598	0.4959	

IL4_poly6	0.1099 21 0.6354	-0.0234 21 0.9199	0.1494 21 0.5179	0.2098 21 0.3613	-0.1033 21 0.6560	0.2320 21 0.3116	-0.2097 21 0.3616	0.9782* 21 0.0000	0.0171 21 0.9414	-0.0708 21 0.7604	0.0614 21 0.7915	0.0299 21 0.8977	0.2670 21 0.2420	0.3440 21 0.1267
GMCSF_poly6	-0.4064 21 0.0675	0.2251 21 0.3267	0.2756 21 0.2266	0.3032 21 0.1815	0.1703 21 0.4605	0.2007 21 0.3831	0.2191 21 0.3400	-0.1422 21 0.5385	0.6030* 21 0.0038	0.0461 21 0.8428	0.1563 21 0.4986	0.0000 21 1.0000	-0.0414 21 0.8586	0.3705 21 0.0982
	IL2_LPS6	IL4_LPS6	GMCSF-S6	IL8_po-6	IL10_p-6	IL6_po-6	TNFa_p-6	IFNg_p-6	IL2_po-6	IL4_po-6	GMCSF-y6			
IL2_LPS6	1.0000 21													
IL4_LPS6	-0.3306 21 0.1433	1.0000 21												
GMCSF_LPS6	-0.1842 21 0.4242	0.1479 21 0.5224	1.0000 21											
IL8_poly6	-0.1761 21 0.4452	0.0955 21 0.6805	0.2498 21 0.2747	1.0000 21										
IL10_poly6	-0.0515 21 0.8246	0.2040 21 0.3750	0.4181 21 0.0593	0.7730* 21 0.0000	1.0000 21									
IL6_poly6	-0.0298 21 0.8980	0.2371 21 0.3008	0.2950 21 0.1943	0.8013* 21 0.0000	0.8957* 21 0.0000	1.0000 21								
TNFa_poly6	-0.0962 21 0.6784	0.0240 21 0.9176	0.0713 21 0.7588	0.8494* 21 0.0000	0.6996* 21 0.0004	0.8338* 21 0.0000	1.0000 21							
IFNg_poly6	-0.0645 21 0.7812	0.4443* 21 0.0436	0.2760 21 0.2259	-0.0678 21 0.7704	0.0270 21 0.9076	0.0658 21 0.7769	0.0145 21 0.9503	1.0000 21						
IL2_poly6	0.8338* 21 0.0000	-0.4697* 21 0.0317	-0.0454 21 0.8452	0.1217 21 0.5993	0.1066 21 0.6456	0.1540 21 0.5051	0.1512 21 0.5128	-0.2598 21 0.2554	1.0000 21					
IL4_poly6	-0.3143 21 0.1652	0.9896* 21 0.0000	0.1178 21 0.6112	0.0630 21 0.7861	0.1689 21 0.4641	0.2150 21 0.3493	0.0019 21 0.9933	0.4443* 21 0.0436	-0.4807* 21 0.0274	1.0000 21				
GMCSF_poly6	0.1964 21 0.3935	-0.0675 21 0.7714	0.2913 21 0.2002	0.1175 21 0.6119	0.3597 21 0.1092	0.2898 21 0.2025	0.2010 21 0.3823	0.2196 21 0.3389	0.1962 21 0.3940	-0.1022 21 0.6593	1.0000 21			

11 . *No significant correlations with HC.

12 . spearman HC_12 IL8_C12 IL10_C12 IL6_C12 TNFa_C12 IFNg_C12 IL2_C12 IL4_C12 GMCSF_C12 IL8_LPS12 IL10_LPS12 IL6_LPS12 TNFa_LPS12 IFNg_LPS12 IL2_LPS12 IL4_LPS12 GMCSF_LPS12 IL8_poly12 IL10_poly12 IL6_poly12 TNFa_poly12 IFNg_poly12 IL2_poly12 IL4_poly12 GMCSF_poly12, stats(rho obs p) star(0.05)

Key
<i>rho</i>
<i>Number of obs</i>
<i>Sig. level</i>

	HC_12	IL8_C12	IL10_C12	IL6_C12	TNFa_C12	IFNg_C12	IL2_C12	IL4_C12	GMCS-C12	IL8_L-12	IL10-S12	IL6_L-12	TNFa-S12	IFNg-S12
HC_12	1.0000 21													
IL8_C12	-0.2787 21 0.2211	1.0000 21												
IL10_C12	0.0828 21 0.7213	0.5724* 21 0.0067	1.0000 21											
IL6_C12	-0.0300 21 0.8974	0.1857 21 0.4203	0.4107 21 0.0644	1.0000 21										
TNFa_C12	0.0564 21 0.8083	0.4813* 21 0.0272	0.5843* 21 0.0054	0.1812 21 0.4318	1.0000 21									
IFNg_C12	-0.3626 21 0.1062	0.5343* 21 0.0126	0.3510 21 0.1187	0.0709 21 0.7599	0.3607 21 0.1082	1.0000 21								
IL2_C12	-0.4285 21 0.0526	-0.0975 21 0.6740	-0.3463 21 0.1241	-0.1169 21 0.6138	-0.1410 21 0.5421	0.1055 21 0.6491	1.0000 21							
IL4_C12	0.0358 21	0.0948 21	0.5257* 21	0.8260* 21	-0.0032 21	-0.1139 21	-0.1630 21	1.0000 21						

[illegible]

IFNg_poly12	-0.2672	-0.0003	0.2384	0.2032	0.2977	0.0536	0.2807	1.0000	
	21	21	21	21	21	21	21	21	
	0.2416	0.9989	0.2980	0.3770	0.1900	0.8174	0.2178		
IL2_poly12	0.9003*	-0.1016	0.0999	-0.0053	0.0422	0.0127	-0.0140	-0.3243	1.0000
	21	21	21	21	21	21	21	21	21
	0.0000	0.6612	0.6666	0.9817	0.8560	0.9564	0.9519	0.1516	
IL4_poly12	0.0227	0.7652*	0.3427	0.3701	0.4280	0.8262*	0.4416*	-0.0808	0.0214
	21	21	21	21	21	21	21	21	21
	0.9222	0.0001	0.1284	0.0986	0.0529	0.0000	0.0451	0.7279	0.9267
GMCSF_poly12	0.5961*	0.1152	0.4388*	0.2283	0.2645	0.3488	0.2164	0.2030	0.5819*
	21	21	21	21	21	21	21	21	21
	0.0043	0.6191	0.0466	0.3196	0.2467	0.1212	0.3461	0.3774	0.0057
									0.1076

```

13 . *No significant correlations with HC.
14 .
15 . *Graphs
16 . twoway (scatter HC_0 TNFa_poly0), ytitle("Head circumference") xtitle("TNFa_poly0") || lfit HC_0 TNFa_poly0

17 .
    end of do-file

18 . graph save "Graph" "/Users/theresarossouw/Desktop/Graph HC TNF.gph"
    file /Users/theresarossouw/Desktop/Graph HC TNF.gph saved

19 . do "/var/folders/31/x9ydjyz56s78dldtzmgggcjm0000gn/T//SD00473.000000"

20 . twoway (scatter HC_0 GMCSF_LPS0), ytitle("Head circumference") xtitle("GMCSF_LPS0") || lfit HC_0 GMCSF_LPS0

21 .
    end of do-file

22 . graph save "Graph" "/Users/theresarossouw/Desktop/Graph HC GMCSF.gph"
    file /Users/theresarossouw/Desktop/Graph HC GMCSF.gph saved

23 . log close
    name: <unnamed>
    log: /Users/theresarossouw/Desktop/Correlation.smcl
    log type: smcl
    closed on: 17 Aug 2022, 14:50:27

```