

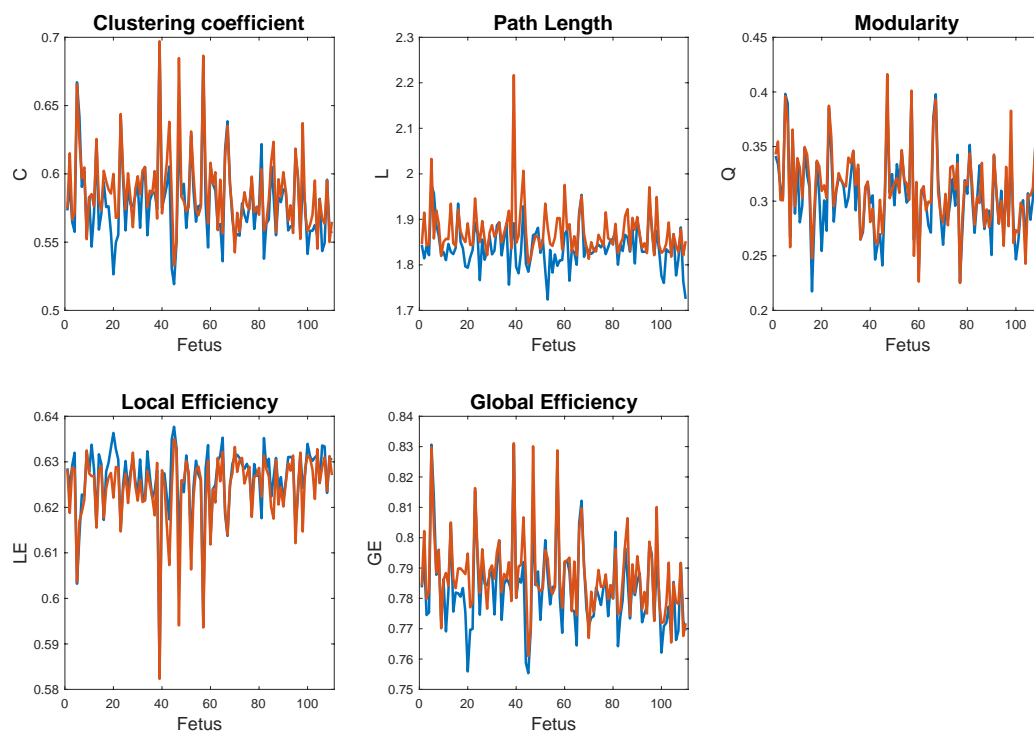
**Table S1.** Female Stratified Modeled Bootstrapped Estimates and 95% Confidence Intervals at select Gestational Age Cut Points

Met ric	Estimate	GA at Scan = 28	GA at Scan = 29	GA at Scan = 30	GA at Scan = 31	GA at Scan = 32	GA at Scan = 33
Q	-0.0034	-0.0951	-0.0985	-0.1019	-0.1053	-0.1087	-0.1121
	(-0.0197 - 0.0058)	(-0.5518 - 0.1629)	(-0.5715 - 0.1687)	(-0.5912 - 0.1746)	(-0.6109 - 0.1804)	(-0.6306 - 0.1862)	(-0.6503 - 0.1920)
GE	-0.0002	-0.0065	-0.0067	-0.007	-0.0072	-0.0074	-0.0077
	( -0.0021 - 0.0003)	(-0.0580 - 0.0083)	(-0.0600 - 0.0086)	(-0.0621 - 0.0089)	(-0.0642 - 0.0092)	(-0.0662 - 0.0095)	(-0.0683 - 0.0098)
LE	0.0006	0.0158	0.0164	0.0169	0.0175	0.0181	0.0186
	(-0.0008 - 0.0052)	(-0.0235 - 0.1466)	( -0.0243 - 0.1519)	(-0.0252 - 0.1571)	(-0.0260 - 0.1624)	(-0.0268 - 0.1676)	(-0.0277 - 0.1728)
$\gamma$	-0.0098	-0.2753	-0.2851	-0.2949	-0.3048	-0.3146	-0.3244
	(-0.0139 - 0.0013)	(-0.3894 - 0.0370)	(-0.4033 - 0.0383)	(-0.4172 - 0.0396)	(-0.4311 - 0.0409)	(-0.4450 - 0.0423)	(-0.4589 - 0.0436)
$\lambda$	0.001	0.0291	0.0302	0.0312	0.0322	0.0333	0.0343
	(-0.0010 - 0.0088)	(-0.0291 - 0.2454)	(-0.0301 - 0.2541)	(-0.0311 - 0.2629)	(-0.0322 - 0.2717)	( -0.0332 - 0.2804)	(-0.0342 - 0.2892)
$\sigma$	-0.0084	-0.2349	-0.2432	-0.2516	-0.26	-0.2684	-0.2768
	(-0.0125 - 0.0009)	(-0.3512 - 0.0260)	(-0.3638 - 0.0269)	(-0.3763 - 0.0279)	(-0.3888 - 0.0288)	(-0.4014 - 0.0297)	(-0.4139 - 0.0307)

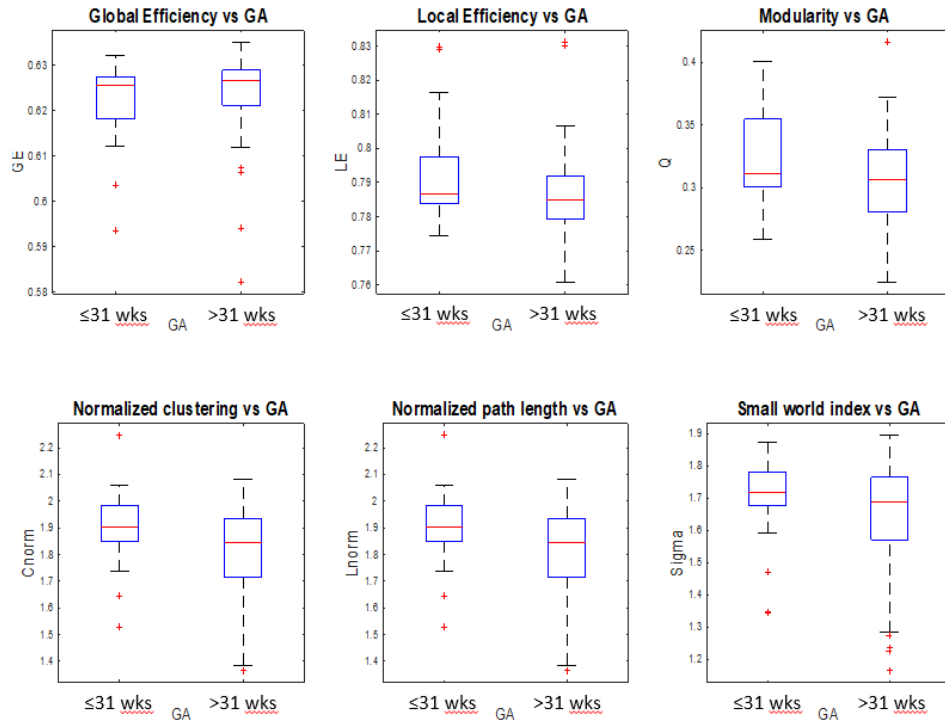
**Table S2.** Male Stratified Modeled Bootstrapped Estimates and 95% Confidence Intervals at select Gestational Age Cut Points

Met ric	Estimate	GA at Scan = 28	GA at Scan = 29	GA at Scan = 30	GA at Scan = 31	GA at Scan = 32	GA at Scan = 33
Q	-0.0048	-0.1332	-0.1379	-0.1427	-0.1474	-0.1522	-0.1569
	(-0.0120 - 0.0023)	(-0.3355 - 0.0634)	(-0.3474 - 0.0657)	(-0.3594 - 0.0680)	(-0.3714 - 0.0702)	(-0.3834 - 0.0725)	(-0.3954 - 0.0748)
GE	0.0006	0.0158	0.0164	0.0169	0.0175	0.0181	0.0186
	(-0.0001 - 0.0010)	( -0.0032 - 0.0285)	(-0.0034 - 0.0296)	(-0.0035 - 0.0306)	(-0.0036 - 0.0316)	(-0.0037 - 0.0326)	(-0.0038 - 0.0336)
LE	-0.0012	-0.0347	-0.036	-0.0372	-0.0385	-0.0397	-0.0409
	(-0.0020 - 0.0002)	(-0.0552 - 0.0045)	(-0.0571 - 0.0047)	(-0.0591 - 0.0049)	(-0.0611 - 0.0050)	(-0.0630 - 0.0052)	(-0.0650 - 0.0053)
$\gamma$	-0.0025	-0.0687	-0.0711	-0.0736	-0.076	-0.0785	-0.0809
	(-0.0268 - 0.0341)	(-0.7514 - 0.9551)	(-0.7782 - 0.9892)	(-0.8051 - 1.0233)	(-0.8319 - 1.0574)	(-0.8587 - 1.0915)	(-0.8856 - 1.1256)
$\lambda$	-0.0023	-0.0645	-0.0668	-0.0691	-0.0714	-0.0737	-0.076
	(-0.0035 - 0.0004)	(-0.0979 - 0.0119)	(-0.1014 - 0.0124)	(-0.1048 - 0.0128)	(-0.1083 - 0.0132)	(-0.1118 - 0.0136)	(-0.1153 - 0.0141)
$\sigma$	-0.0023	-0.0633	-0.0656	-0.0678	-0.0701	-0.0724	-0.0746
	(-0.0343 - 0.0310)	(-0.9598 - 0.8668)	(-0.9941 - 0.8977)	(-1.0283 - 0.9287)	(-1.0626 - 0.9596)	(-1.0969 - 0.9906)	(-1.1312 - 1.0215)

## Supplementary Figures



**Figure S1.** Correlation network metrics computed from full (blue) vs partial (red) time series data.



**Figure S2.** Global network metrics and gestational cut-points.