Online Table 1: Quadratic quantile curve coefficients for brain volume curve fit 2-20 years of age, 10th and 90th percentile regression^a

	Ma	Male		Female	
	$\tau = 0.1$	$\tau = 0.9$	$\tau = 0.1$	$\tau = 0.9$	
(intercept)	725.84	1021.36	887.38	1318.18	
х	117.26	77.73	-14.09	-51.89	
I(x^2)	-11.10	-5.61	3.01	5.12	
I(x^3)	0.31	0.13	-0.10	-0.13	

Online Table 3: Quadratic quantile curve coefficients for BPF curve fit 2-20 years of age, 10th and 90th percentile regression^a

	Ma	Male		Female	
	$\tau = 0.1$	$\tau = 0.9$	$\tau = 0.1$	$\tau = 0.9$	
(intercept)	8.92E-01	9.04E-01	8.90E-01	9.16E-01	
х	-9.71E-03	-6.71E-03	-1.11E-02	-1.01E-02	
I(x^2)	7.60E-04	7.09E-04	9.81E-04	9.73E-04	
I(x^3)	-1.52E-05	-1.88E-05	-2.26E-05	-2.54E-05	

^a Polynomial regression coefficients for brain volume and BPF.

Online Table 2: Quadratic quantile curve coefficients for brain volume curve fit 2-20 years of age, 5th and 95th percentile regression^a

	Ma	Male		Female	
	$\tau = 0.05$	$\tau = 0.95$	$\tau = 0.05$	$\tau = 0.95$	
(intercept)	749.82	1235.89	712.82	1355.83	
х	107.37	-3.92	26.39	-59.94	
I(x^2)	-11.52	2.96	-0.06	6.88	
I(x^3)	0.34	-0.12	-0.03	-0.20	

^a Polynomial regression coefficients for brain volume and BPF.

^a Polynomial regression coefficients for brain volume and BPF.

Online Table 4: Quadratic quantile curve coefficients for BPF curve fit 2-20 years of age, 5th and 95th percentile regression^a

	Ma	Male		Female	
	$\tau = 0.05$	$\tau = 0.95$	$\tau = 0.05$	$\tau = 0.95$	
(intercept)	8.88E-01	9.01E-01	9.33E-01	9.12E-01	
x	-1.01E-02	-4.09E-03	-2.99E-02	-7.74E-03	
I(x^2)	7.82E-04	4.89E-04	2.61E-03	7.78E-04	
I(x^3)	-1.50E-05	-1.37E-05	-6.35E-05	-2.07E-05	

^a Polynomial regression coefficients for brain volume and BPF.



ONLINE FIG 1. 2D cluster analysis of BPF versus brain volume by age subgroups. Gaussian mixture model analysis identifies 2 clusters, 0-2 years and 2-20 years of age. In cluster 1 (blue circles), 101 subjects were identified (mean BPF = 0.85; mean brain volume = 692), among them 91% were younger than 2 years of age. In cluster 2 (red squares), 101 subjects were identified (mean BPF = 0.89; mean brain volume = 1148), among them 92% were older than 2 years of age. For the mean of the 2 clusters BrainVol = 715.40, 1142.96, BPF = .85, 0.89. The covariance matrix of the 2 clusters is the following: 1) BrainVol = 52441.80, 1.65; BPF = 1.65, 0.0015; 2). BrainVol = 21082.94, 0.66; BPF = 0.66, 0.0001.





ONLINE FIG 2. Scatterplot of normalized brain volume and brain density as a function of age, male (*upper graph*), and female (*lower graph*). Brain volume and brain density increase along similar-trendlines. Virtually identical trendlines are seen with male and female subjects, evidencing reproducible observations between 2 independent patient cohorts. nml indicates normal; Vol, volume.