

Table 6.B.i (one of four)

Analysis of p-values from bivariate methylation-on-depression regressions

Sample / DI subj. - DI & time	Probe Sets										All Lit. Mot.	NR3c1		
	All	Nemoda	Cecil- Phys. Abuse	Cecil- Sexual Abuse	Cecil- Phys. Neglect	Glad- Free Cortisol	Glad- Delta Cortisol	Houte- Stress React.	Bran- Postnat. Dep.	Savitz				
<i>Antenatal (t=0 mom)</i>														
mom -	0	0	0	0	0	0	0	0	0	0	0	0	1	1
DI mean	0.413	0.283	0.338	0.390	0.524	0.372	0.372	0.282	0.513	0.397	0.333	0.340	0.397	0.340
mom - epds	0.0E+00	7.5E-19	7.9E-02	1.7E-01	6.0E-01	2.4E-01	1.2E-01	7.9E-04	5.5E-01	4.0E-06	4.3E-20	4.0E-04	4.3E-20	4.0E-04
t=-0.3	0.0E+00	3.3E-16	1.9E-02	2.6E-01	8.4E-01	4.2E-01	2.6E-01	1.3E-02	4.0E-01	1.7E-06	0.0E+00	7.1E-04	0.0E+00	7.1E-04
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.519	0.595	0.646	0.535	0.474	0.528	0.517	0.588	0.523	0.528	0.534	0.397	0.534	0.397
	1.0E+00	1.0E+00	9.1E-01	6.7E-01	3.9E-01	6.3E-01	5.8E-01	8.2E-01	5.8E-01	9.2E-01	9.8E-01	9.9E-03	9.8E-01	9.9E-03
mom- epds t=3	0.0E+00	1.1E-03	3.5E-01	4.0E-01	9.8E-01	9.1E-01	9.4E-01	5.3E-01	7.0E-01	2.5E-01	2.3E-01	9.1E-02	2.3E-01	9.1E-02
	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.434	0.335	0.281	0.494	0.526	0.533	0.377	0.382	0.319	0.389	0.360	0.286	0.360	0.286
mom - epds t=12	0.0E+00	2.7E-12	2.9E-03	4.7E-01	6.0E-01	6.2E-01	1.5E-01	7.9E-02	1.9E-02	2.4E-07	7.5E-16	1.3E-06	7.5E-16	1.3E-06
	0.0E+00	1.8E-10	1.9E-02	3.9E-01	3.7E-01	4.2E-01	7.9E-02	4.3E-01	1.7E-01	7.5E-05	2.3E-13	2.3E-05	2.3E-13	2.3E-05
	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	0.415	0.404	0.366	0.352	0.455	0.386	0.571	0.396	0.497	0.453	0.401	0.327	0.401	0.327
<i>FOM (t=15 mom)</i>	0.0E+00	4.8E-06	1.0E-01	1.0E-01	2.9E-01	1.6E-01	8.1E-01	1.4E-01	4.9E-01	1.9E-02	3.7E-09	2.7E-04	3.7E-09	2.7E-04
mom -	0.0E+00	1.4E-05	1.6E-01	5.8E-01	5.6E-01	4.0E-01	9.2E-02	2.7E-01	9.3E-01	5.1E-02	1.6E-06	2.5E-04	1.6E-06	2.5E-04
DI mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.467	0.364	0.551	0.301	0.476	0.386	0.210	0.346	0.571	0.495	0.384	0.391	0.384	0.391
mom - epds t=12	0.0E+00	4.4E-11	6.8E-01	6.3E-03	3.8E-01	9.4E-02	4.0E-03	3.8E-02	8.0E-01	4.1E-01	2.3E-13	3.9E-03	2.3E-13	3.9E-03
	0.0E+00	3.0E-10	8.1E-01	5.8E-02	8.2E-01	4.1E-01	1.9E-03	1.1E-01	5.3E-01	9.4E-01	3.8E-12	1.8E-02	3.8E-12	1.8E-02
	3	0	0	0	0	2	3	0	0	2	1	0	1	0
	3771	0	0	0	0	2	4	0	0	7	1	5	1	5
	0.423	0.141	0.464	0.346	0.547	0.462	0.265	0.347	0.533	0.380	0.267	0.397	0.267	0.397
mom - epds t=12	0.0E+00	6.9E-56	3.5E-01	8.1E-02	6.8E-01	3.7E-01	3.4E-02	1.1E-01	6.6E-01	3.4E-08	4.8E-33	2.4E-02	4.8E-33	2.4E-02
	0.0E+00	0.0E+00	7.9E-01	3.4E-01	8.3E-01	7.6E-01	9.2E-03	9.5E-02	8.6E-01	4.1E-07	0.0E+00	4.5E-02	0.0E+00	4.5E-02
probe count	481764	145	10	7	10	10	10	10	10	184	271	41	184	271

Table 6.B.i (two of four)

Sample / DI subj. - DI & time	Probe Sets											
	All	Nemoda	Cecil- Phys. Abuse	Cecil- Sexual Abuse	Cecil- Phys. Neglect	Glad- Free Cortisol	Glad- Delta Cortisol	Houte.- Stress React.	Bran- Postnat. Dep.	Savitz	All Lit. Mot.	NR3c1
<i>Card Blood</i>												
mom -	1	0	0	0	0	1	1	0	0	0	0	0
DI mean	1	0	0	0	0	1	1	0	0	0	0	0
	0.518	0.588	0.368	0.675	0.450	0.443	0.356	0.486	0.608	0.491	0.541	0.556
	1.0E+00	1.0E+00	1.2E-01	9.1E-01	2.8E-01	2.7E-01	1.1E-01	4.4E-01	8.7E-01	3.4E-01	9.9E-01	9.0E-01
	0.0E+00	3.5E-05	7.3E-02	1.4E-01	6.3E-01	8.6E-01	2.1E-01	7.0E-01	4.5E-01	9.4E-01	3.1E-02	3.5E-01
	0	0	0	0	0	0	0	0	0	0	0	0
mom epds t=-0.3	0	0	0	0	0	0	0	0	0	0	0	0
	0.553	0.504	0.607	0.505	0.530	0.503	0.388	0.663	0.570	0.556	0.532	0.589
	1.0E+00	5.7E-01	8.7E-01	5.2E-01	6.5E-01	5.1E-01	1.7E-01	9.7E-01	7.5E-01	1.0E+00	9.7E-01	9.8E-01
	0.0E+00	5.1E-01	4.0E-01	8.7E-01	6.3E-01	9.9E-01	1.1E-01	2.3E-01	6.0E-01	7.3E-02	1.6E-01	1.0E-02
kid -	4	0	0	0	2	0	0	0	0	0	1	0
DI mean	8	0	0	0	2	0	0	0	0	0	1	0
	0.533	0.607	0.549	0.391	0.371	0.490	0.465	0.529	0.511	0.549	0.570	0.623
	1.0E+00	1.0E+00	7.1E-01	7.7E-02	9.4E-02	4.5E-01	3.7E-01	6.1E-01	5.4E-01	9.9E-01	1.0E+00	1.0E+00
	0.0E+00	2.7E-06	5.6E-01	1.6E-01	1.6E-01	8.2E-01	9.0E-01	8.3E-01	9.7E-01	2.8E-02	1.2E-04	2.3E-02
kid -	1	0	0	0	2	0	1	0	0	0	1	0
MF t=16	4646	0	0	0	2	0	1	0	0	0	1	0
	0.522	0.296	0.494	0.475	0.531	0.443	0.398	0.525	0.569	0.478	0.396	0.544
	1.0E+00	8.5E-17	4.7E-01	4.3E-01	6.1E-01	2.5E-01	1.1E-01	6.5E-01	7.5E-01	1.6E-01	5.3E-09	8.4E-01
	0.0E+00	0.0E+00	7.7E-01	6.7E-01	5.0E-01	4.3E-01	3.8E-01	4.5E-01	5.1E-01	2.6E-01	1.2E-09	5.6E-01
probe count	481764	145	10	7	10	10	10	10	10	184	271	41

Table 6.B.i (three of four)

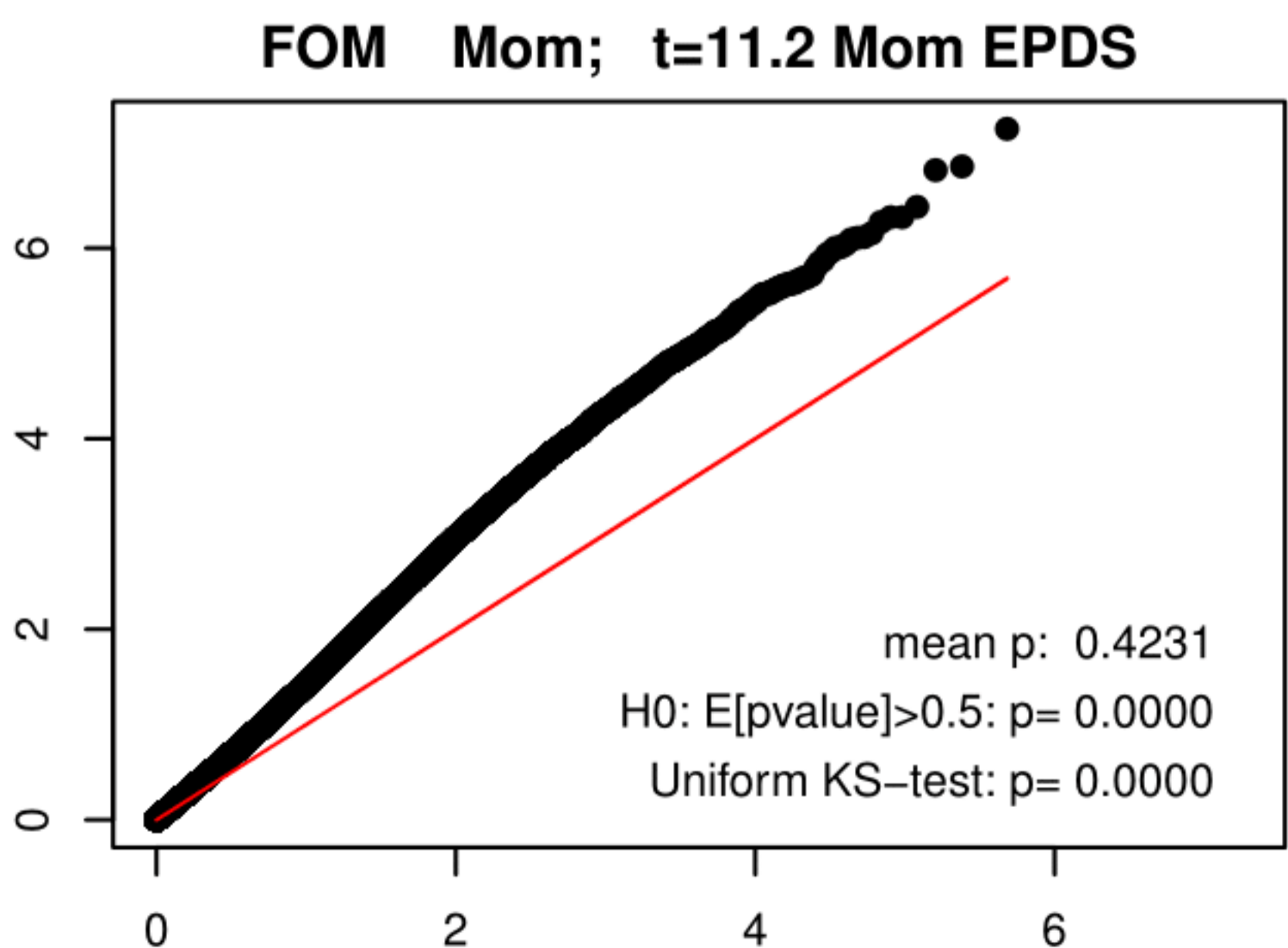
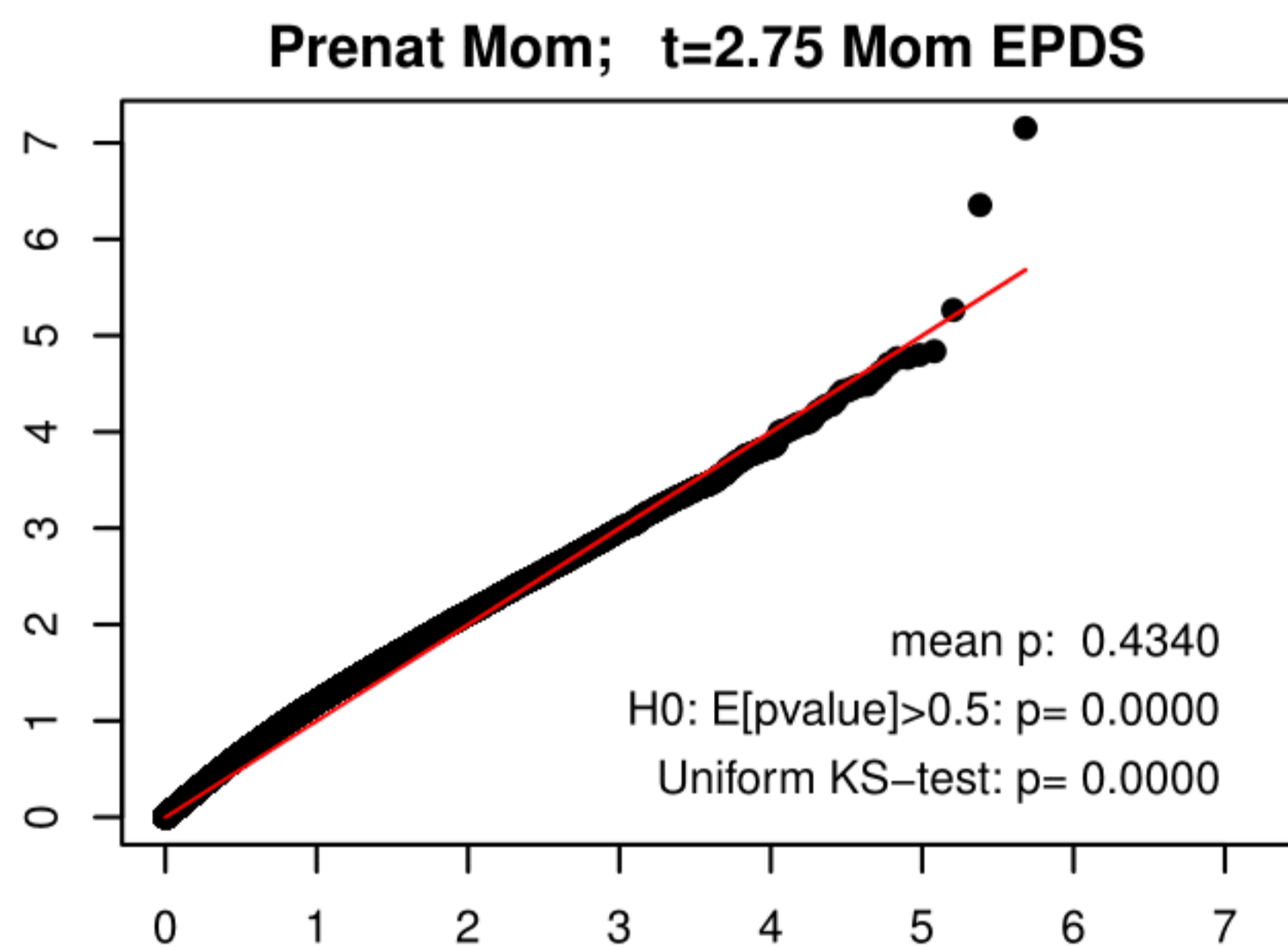
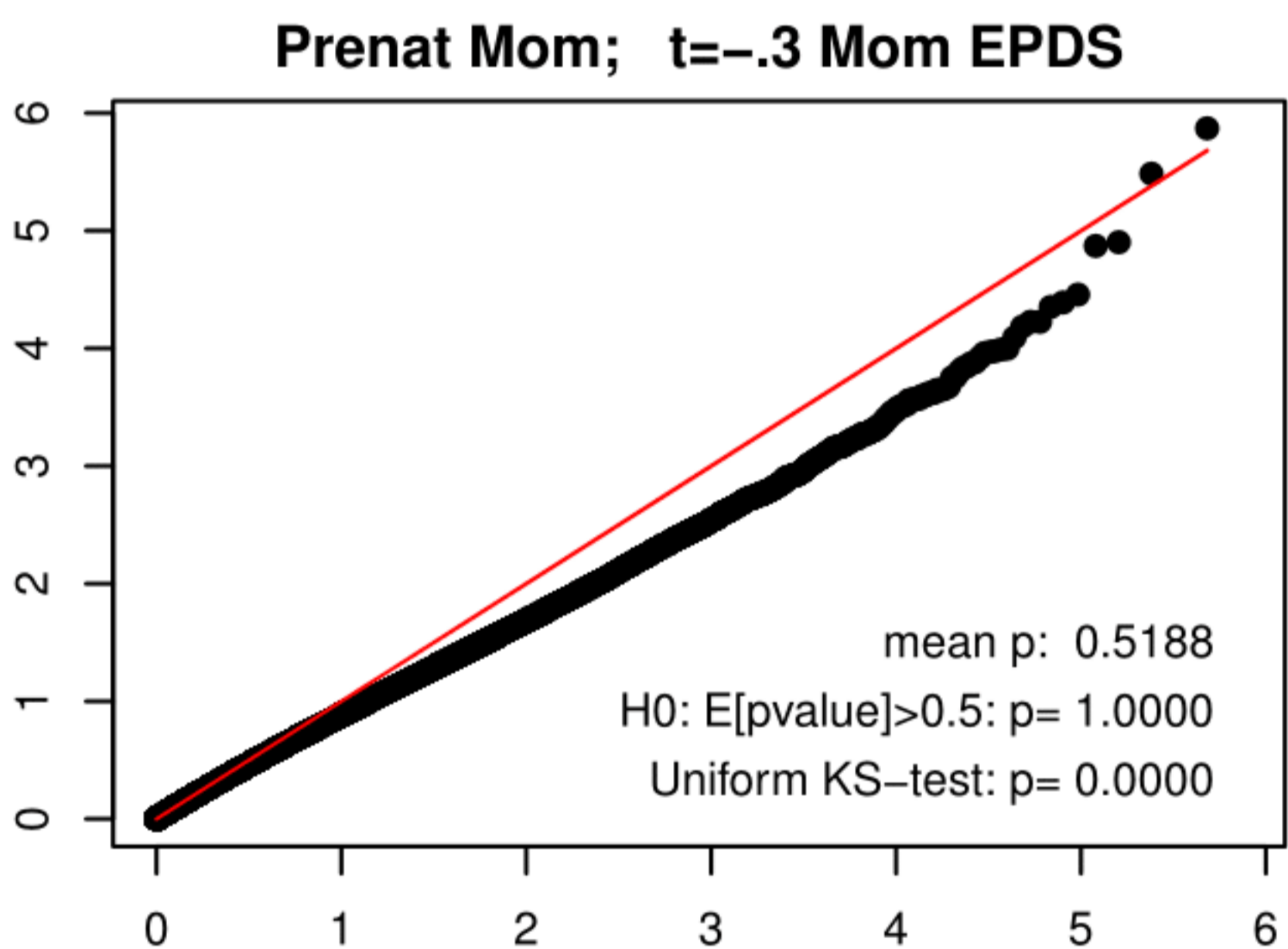
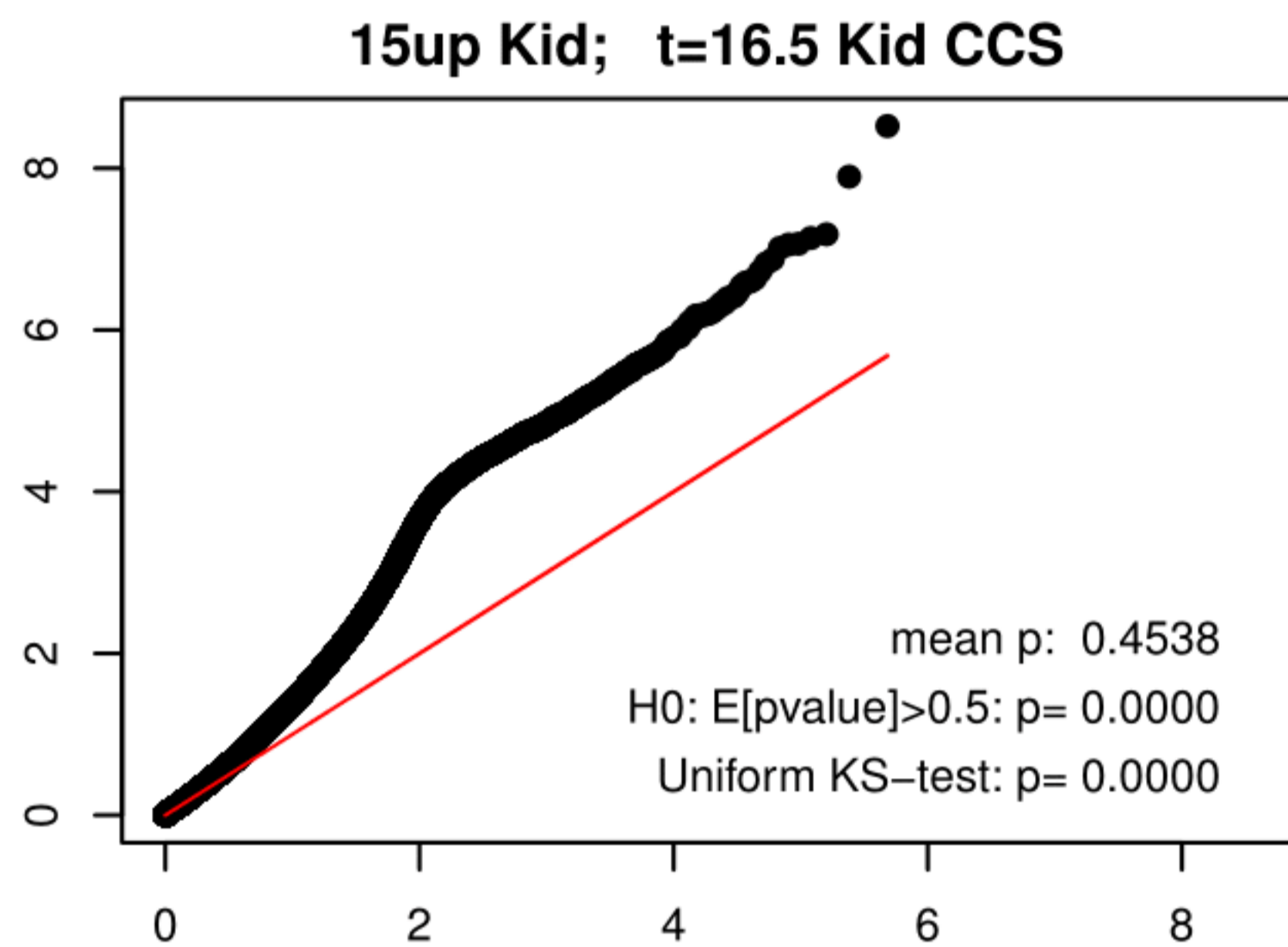
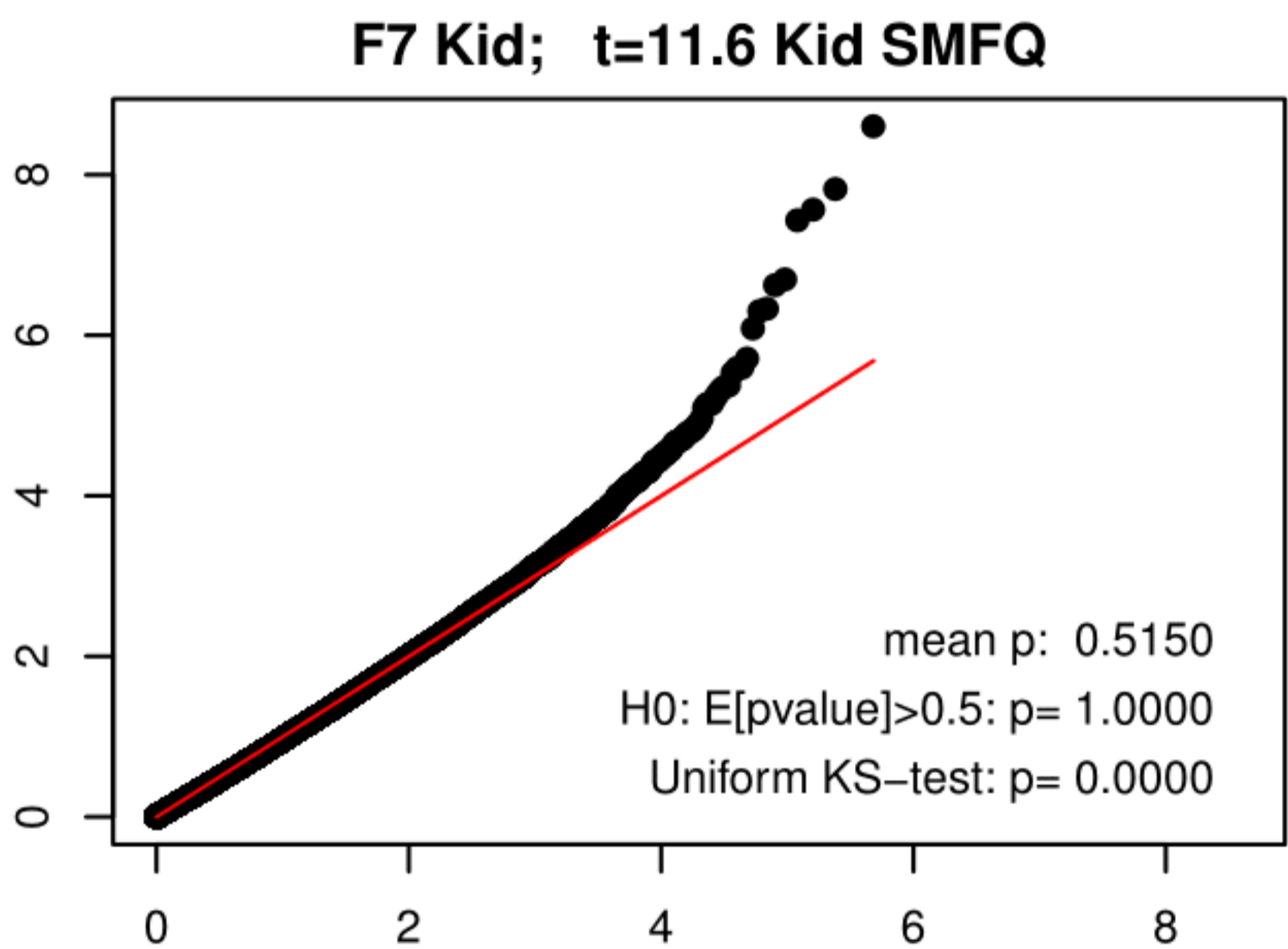
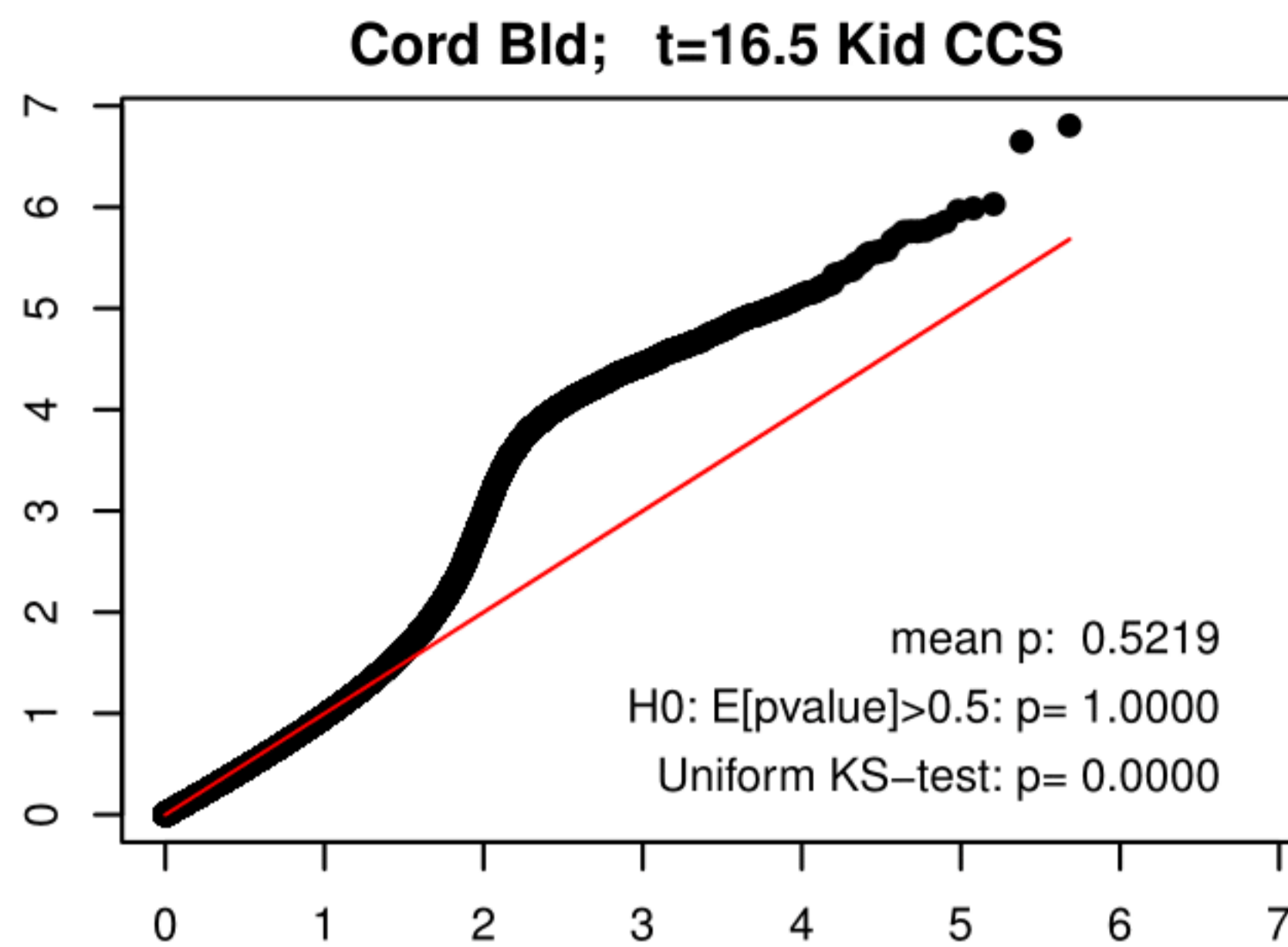
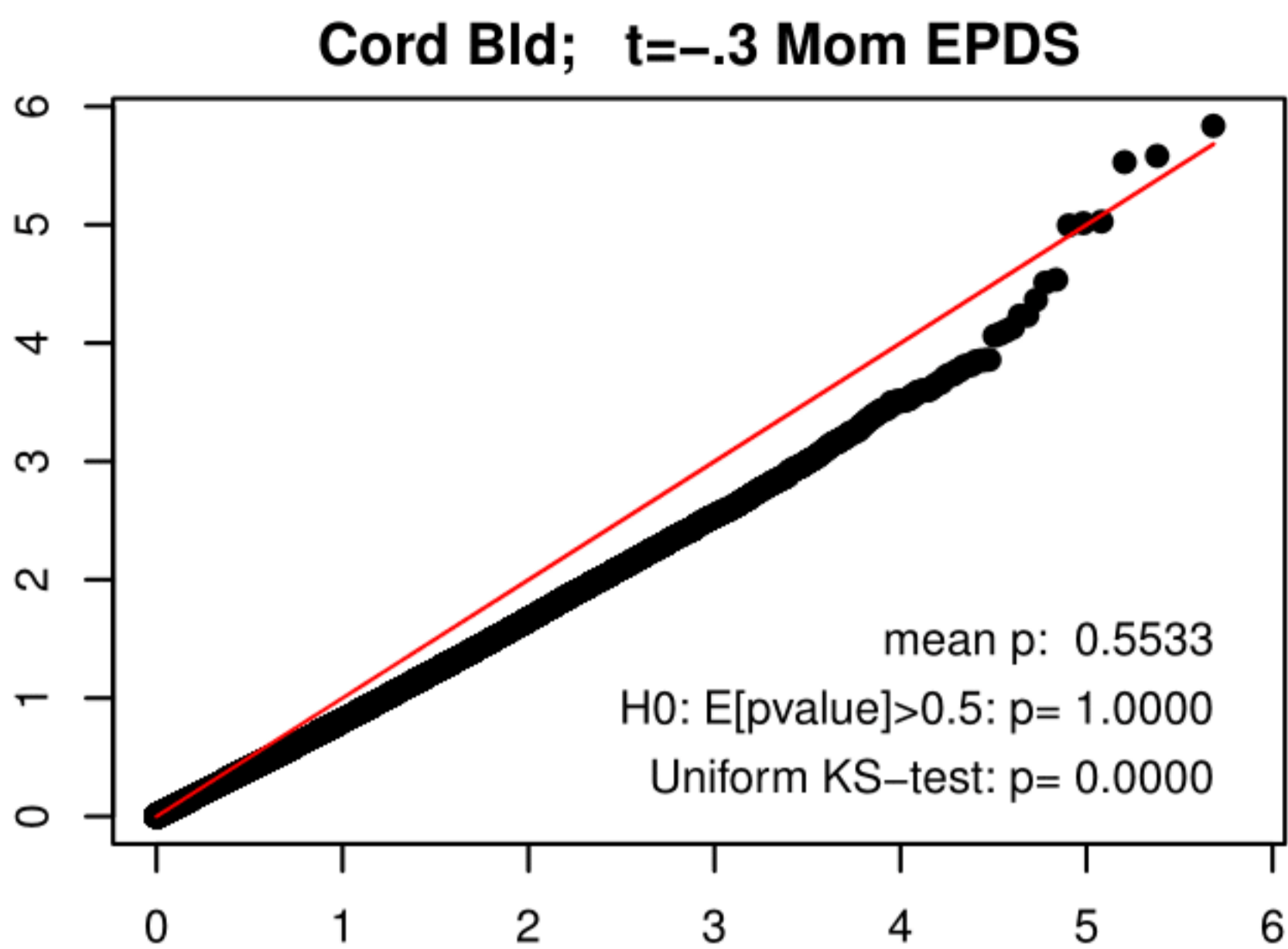
Sample / DI subj. - DI & time	Probe Sets											All Lit. Mot.	NR3c1			
	All	Nemoda	Cecil- Phys. Abuse	Cecil- Sexual Abuse	Cecil- Phys. Neglect	Cecil- Glad-Free Cortisol	Glad- Delta Cortisol	Houte.- Stress React.	Bran- Postnat. Dep.	Savitz	Mot.					
<i>F7 (t=7 kid)</i>																
mom -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
DI mean	0.370	0.443	0.487	0.355	0.476	0.341	0.486	0.521	0.448	0.338	0.406	0.302	0.302	0.302	0.406	0.302
	0.0E+00	4.8E-03	4.5E-01	1.4E-01	4.1E-01	5.6E-02	4.4E-01	5.7E-01	2.9E-01	5.4E-14	8.7E-08	9.5E-05	9.5E-05	9.5E-05	8.7E-08	9.5E-05
kid -	0.0E+00	7.0E-02	6.3E-01	2.6E-01	8.4E-01	3.7E-02	7.6E-01	6.7E-01	6.3E-01	1.4E-10	7.6E-06	1.8E-05	1.8E-05	1.8E-05	7.6E-06	1.8E-05
DI mean	7	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0
	27	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0
	0.475	0.425	0.427	0.523	0.333	0.597	0.556	0.569	0.431	0.520	0.451	0.465	0.465	0.451	0.465	0.465
	0.0E+00	4.0E-04	2.4E-01	5.6E-01	5.3E-02	8.4E-01	7.3E-01	8.3E-01	2.7E-01	8.3E-01	2.0E-03	2.2E-01	2.2E-01	2.0E-03	2.0E-03	2.2E-01
kid -	0.0E+00	9.8E-04	6.3E-01	9.2E-01	1.7E-01	4.9E-01	7.0E-01	6.3E-01	5.2E-01	4.2E-01	1.8E-02	5.9E-01	5.9E-01	1.8E-02	5.9E-01	5.9E-01
SMFQ t=10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.515	0.335	0.534	0.529	0.583	0.559	0.532	0.536	0.442	0.450	0.438	0.608	0.608	0.438	0.438	0.608
	1.0E+00	1.4E-14	6.2E-01	6.0E-01	7.9E-01	7.4E-01	6.5E-01	7.5E-01	2.7E-01	9.6E-03	1.8E-04	9.9E-01	9.9E-01	1.8E-04	1.8E-04	9.9E-01
	0.0E+00	3.8E-12	4.9E-01	7.3E-01	4.8E-01	4.3E-01	6.3E-01	1.5E-01	5.7E-01	9.9E-02	2.5E-04	5.1E-02	5.1E-02	2.5E-04	2.5E-04	5.1E-02
probe count	481764	145	10	7	10	10	10	10	10	184	271	41	41	271	271	41

Table 6.B.i (four of four)

Sample / DI subj. - DI & time	Probe Sets											All Lit. Mot.	NR3c1		
	All	Nemoda	Cecil- Phys. Abuse	Cecil- Sexual Abuse	Cecil- Phys. Neglect	Glad- Free Cortisol	Glad- Delta Cortisol	Houte- Stress React.	Bran- Postnat. Dep.	Savitz					
<i>15up (t=15+ kid)</i>															
mom -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DI mean	0.508	0.526	0.455	0.483	0.555	0.489	0.382	0.497	0.501	0.530	0.508	0.490	0.508	0.508	0.490
	1.0E+00	8.8E-01	3.2E-01	4.0E-01	6.9E-01	4.6E-01	1.1E-01	4.9E-01	5.1E-01	9.2E-01	6.8E-01	4.0E-01	6.8E-01	6.8E-01	4.0E-01
	0.0E+00	2.7E-01	9.2E-01	1.9E-01	6.9E-01	9.4E-01	4.4E-01	8.4E-01	8.2E-01	2.4E-01	5.3E-01	5.2E-01	5.3E-01	5.3E-01	5.2E-01
kid -	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DI mean	0.553	0.663	0.560	0.558	0.474	0.489	0.538	0.709	0.596	0.587	0.621	0.580	0.621	0.621	0.580
	1.0E+00	1.0E+00	7.2E-01	7.1E-01	4.1E-01	4.5E-01	6.6E-01	9.9E-01	8.5E-01	1.0E+00	1.0E+00	9.6E-01	1.0E+00	1.0E+00	9.6E-01
	0.0E+00	2.6E-10	7.0E-01	8.4E-01	5.4E-01	8.7E-01	5.0E-01	2.1E-02	5.8E-01	4.2E-05	2.0E-11	6.3E-02	4.2E-05	2.0E-11	6.3E-02
kid -	10	0	0	0	3	1	0	0	0	3	0	0	3	0	0
MF t=16	11035	0	0	0	4	4	0	0	0	8	0	0	8	0	0
	0.454	0.232	0.451	0.544	0.254	0.193	0.278	0.360	0.508	0.392	0.305	0.400	0.392	0.305	0.400
	0.0E+00	2.9E-27	3.1E-01	6.4E-01	1.1E-02	7.6E-04	2.2E-02	1.2E-01	5.4E-01	1.7E-06	1.3E-24	1.8E-02	1.7E-06	1.3E-24	1.8E-02
	0.0E+00	0.0E+00	4.4E-01	8.4E-01	3.6E-02	6.9E-04	9.2E-03	5.8E-02	1.0E+00	3.5E-05	0.0E+00	5.8E-02	3.5E-05	0.0E+00	5.8E-02
probe count	481764	145	10	7	10	10	10	10	10	184	271	41	184	271	41

This table analyzes p-values from bivariate methylation-on-depression regressions. These regressions were estimated using one of five methylation samples: *ante* (mother, antenatal), *FOM* (mother, around timepoint 15); *cord* (child; neonatal); *F7* (child, around timepoint 7); and *15up* (child, around timepoint 15). For each probe, I regressed methylation M-values on measures of depression. These include the averages of depression scores across all completed inventories (e.g. mom - DI mean) as well as factors constructed from Edinburgh Post-Natal Depression Survey inventories, Short Mood and Feeling questionnaires, and other questionnaires resembling depression inventories. The column restrict analysis of p-values to particular probe subsets. "ALL" consists of all inffinium 450k probes after removing the cross-hybridizing and polymorphic cpGs identified by Chen et. al. (2013). The other probe sets include the top-hits or methylo-me-wide significant hits for depression and related variables as extracted from literature reviewed earlier. I also include probes annotated as near the NR3C1 mineralocorticoid receptor gene. For each 5x1 cell in this table, the first number reports the number of probes in this subset that are significant under Bonferroni multiply hypothesis testing with a 10% false-discovery rate. The second number reports the number of probes in this subset that are significant under Benjamini-Hoxburg multiple-hypothesis testing with a 10% false-discovery rate. The third number reports the mean p-value in this subsample. The fourth number reports the p-value from the t-test of the null hypothesis that the mean p-value for probes in this probe subset is greater than 0.5. This number is in bold when the test is significant at the 10% level. The fifth number reports the p-value for a Kolmogorov test on the null that the p-value distribution is uniform.

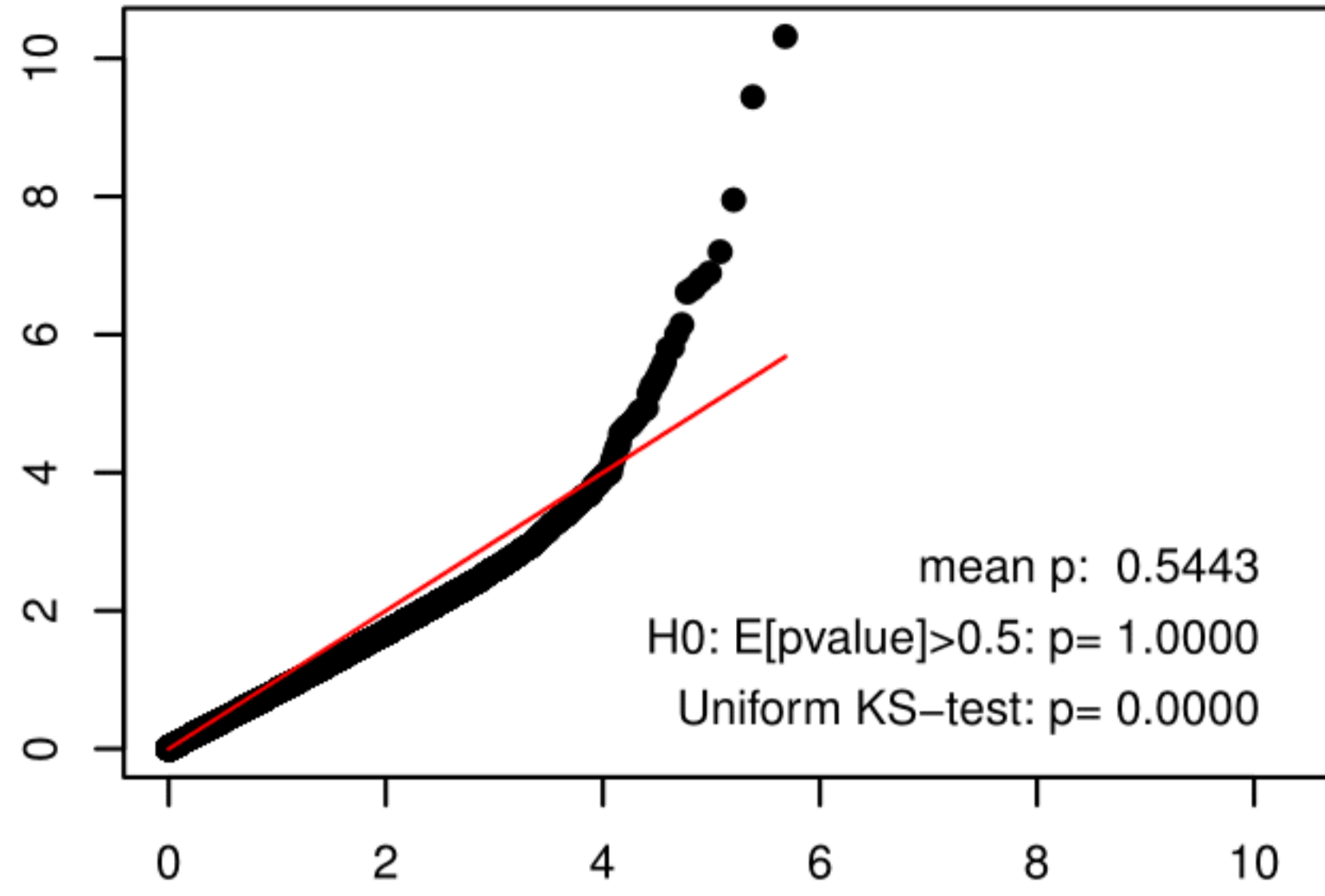
QQ Plots: All Probes



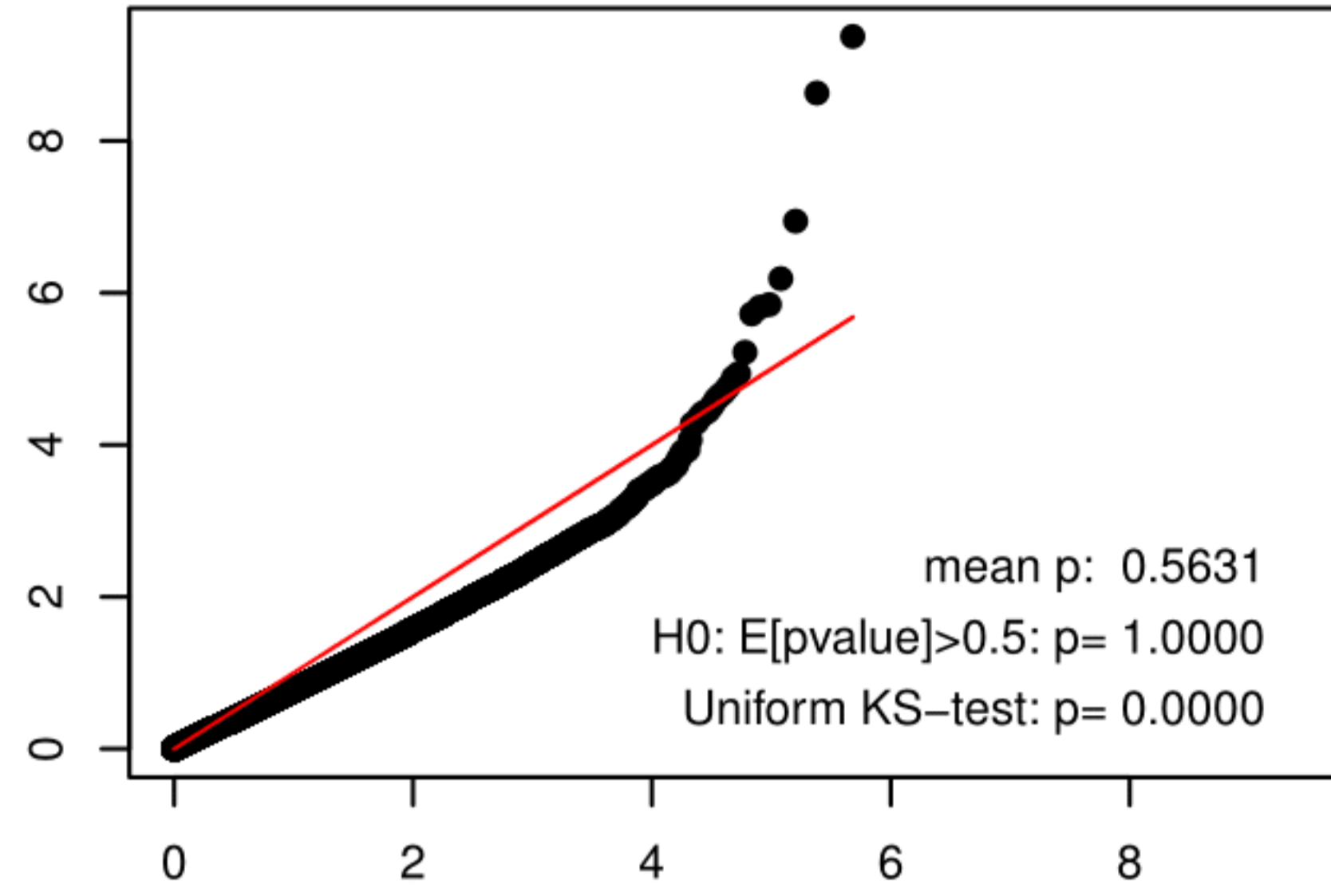
x-axis: $-\log_{10}(\text{expected p-value})$; y-axis: $-\log_{10}(\text{observed p-value})$
Uniform KS-test: tests for uniformity of observed p-value distribution using Kolmogorov-Smirnov test.
H0: E[pvalue]>0.5: applies one-sided t-test to the null that p-values are greater than 0.5.

QQ Plots: All Probes

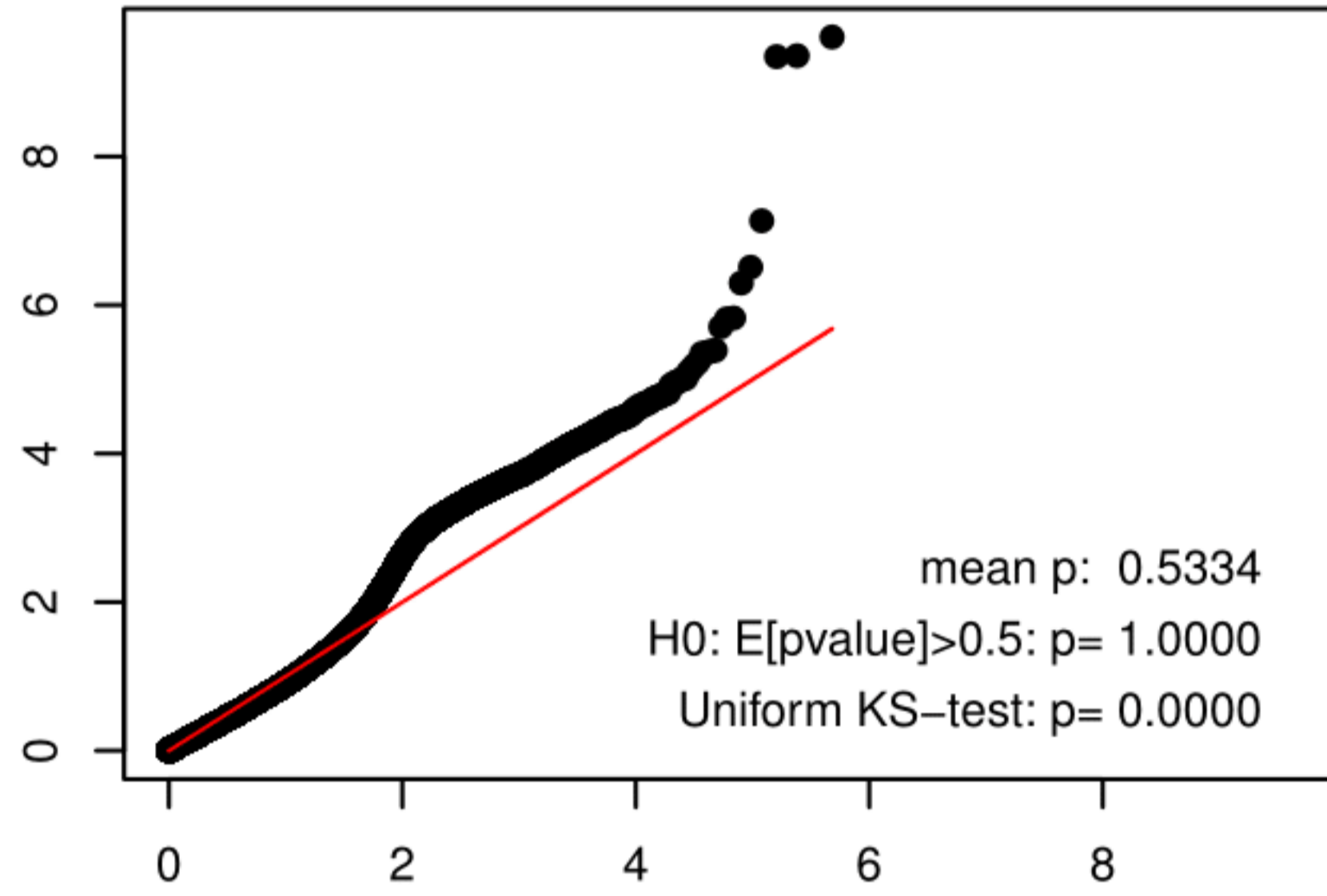
Ante Mom; Mom Dep. Avg.



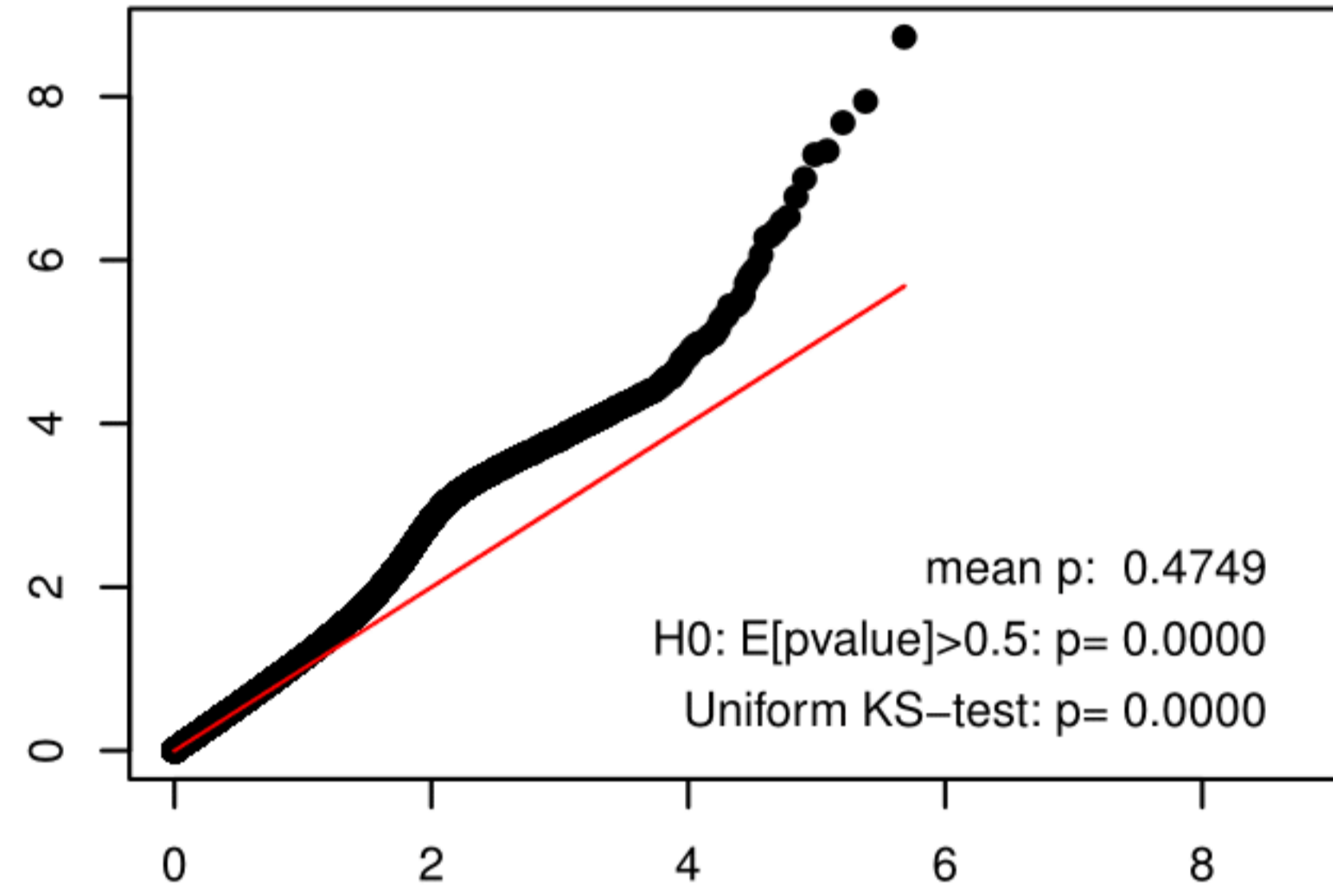
FOM Mom; Mom Dep. Avg.



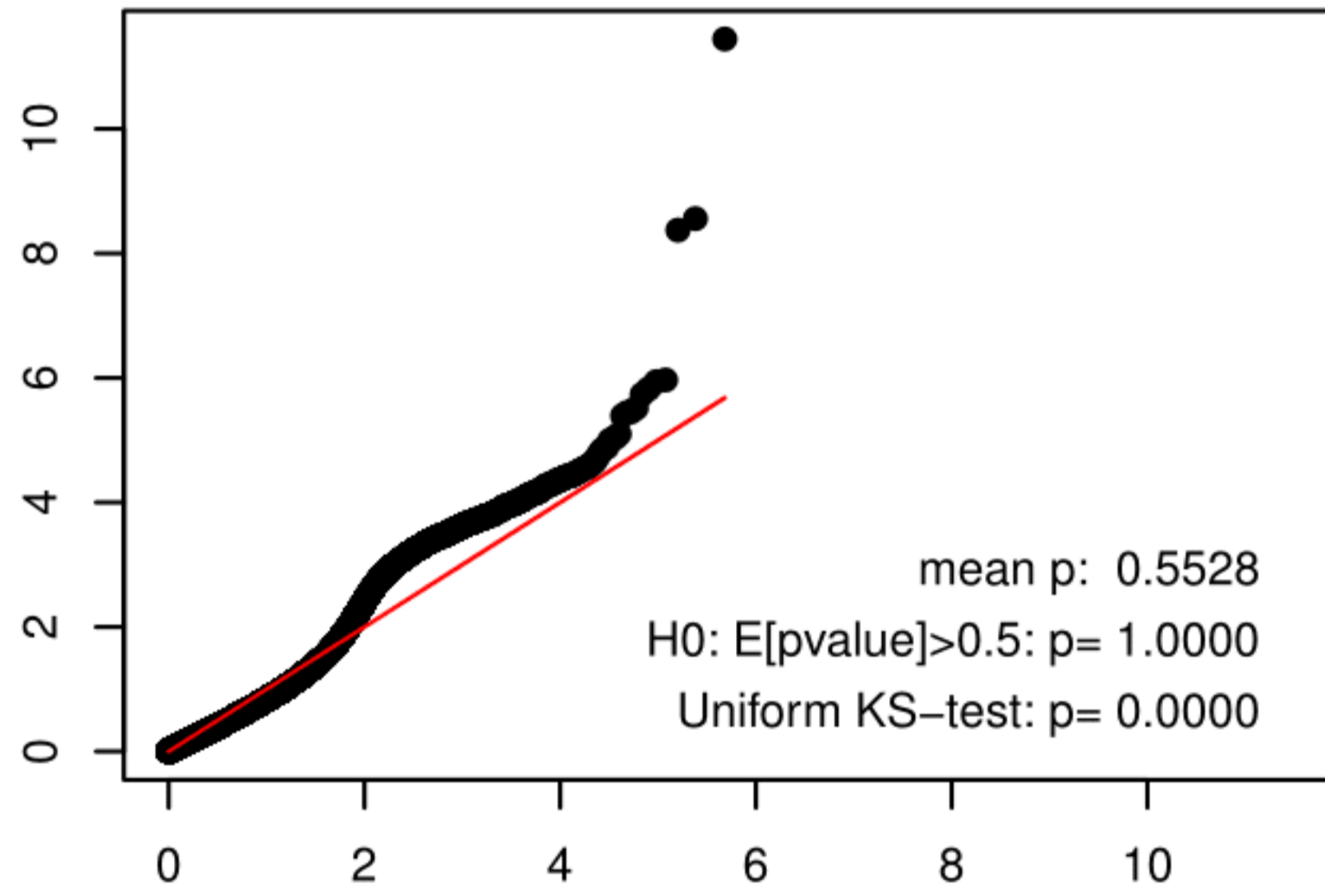
Cord Kid; Mom Dep. Avg.



F7 Kid; Mom Dep. Avg.

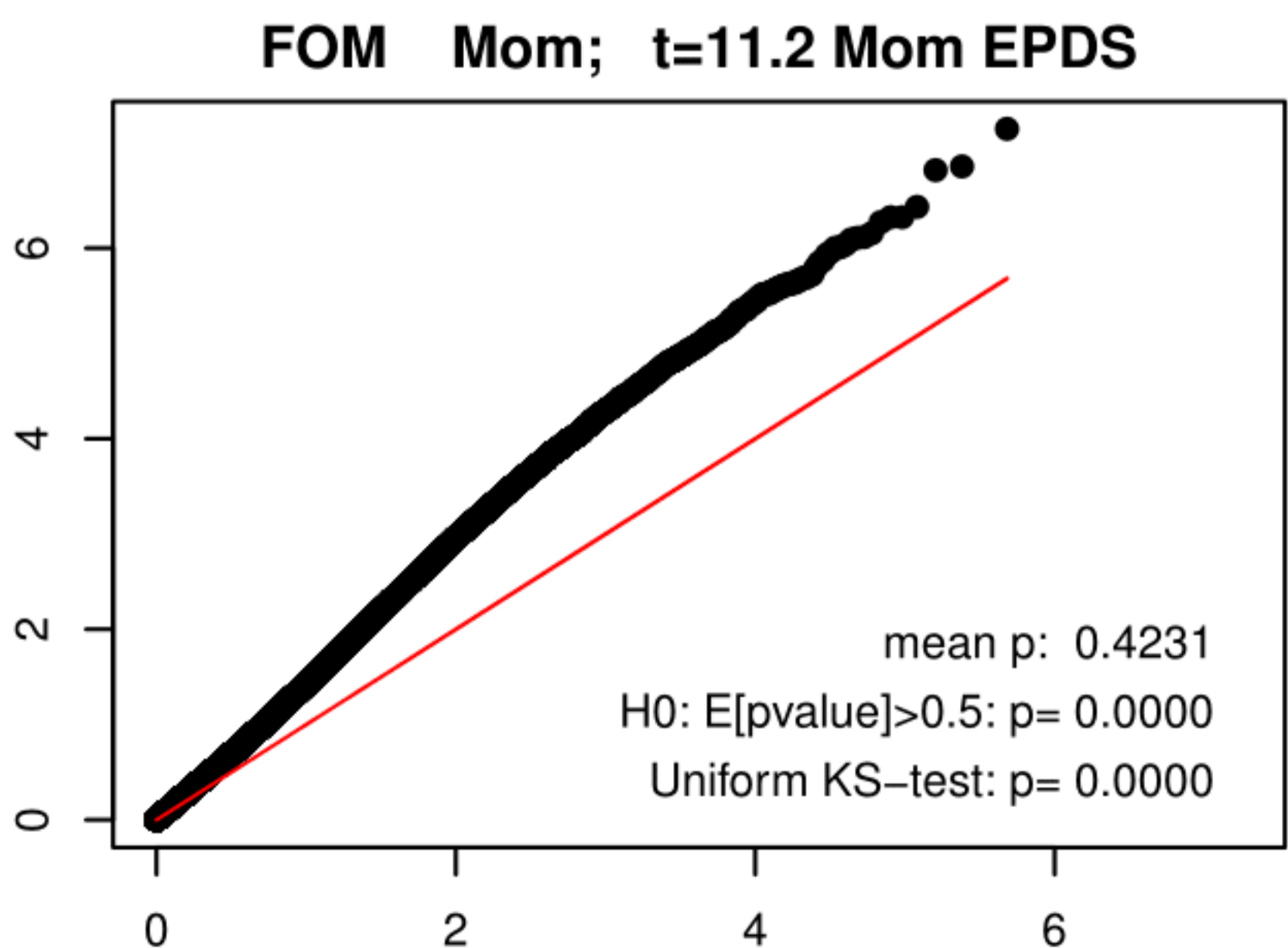
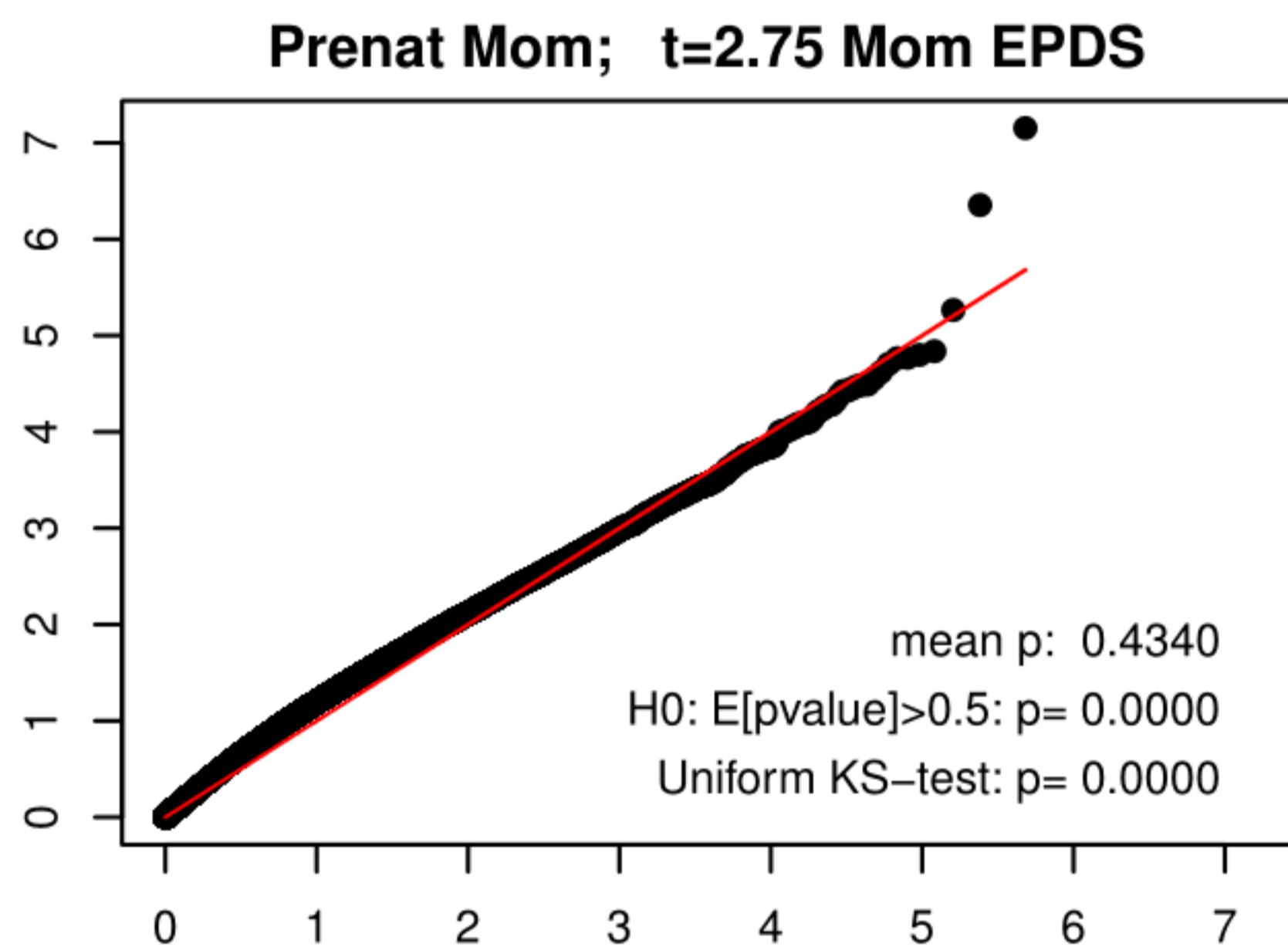
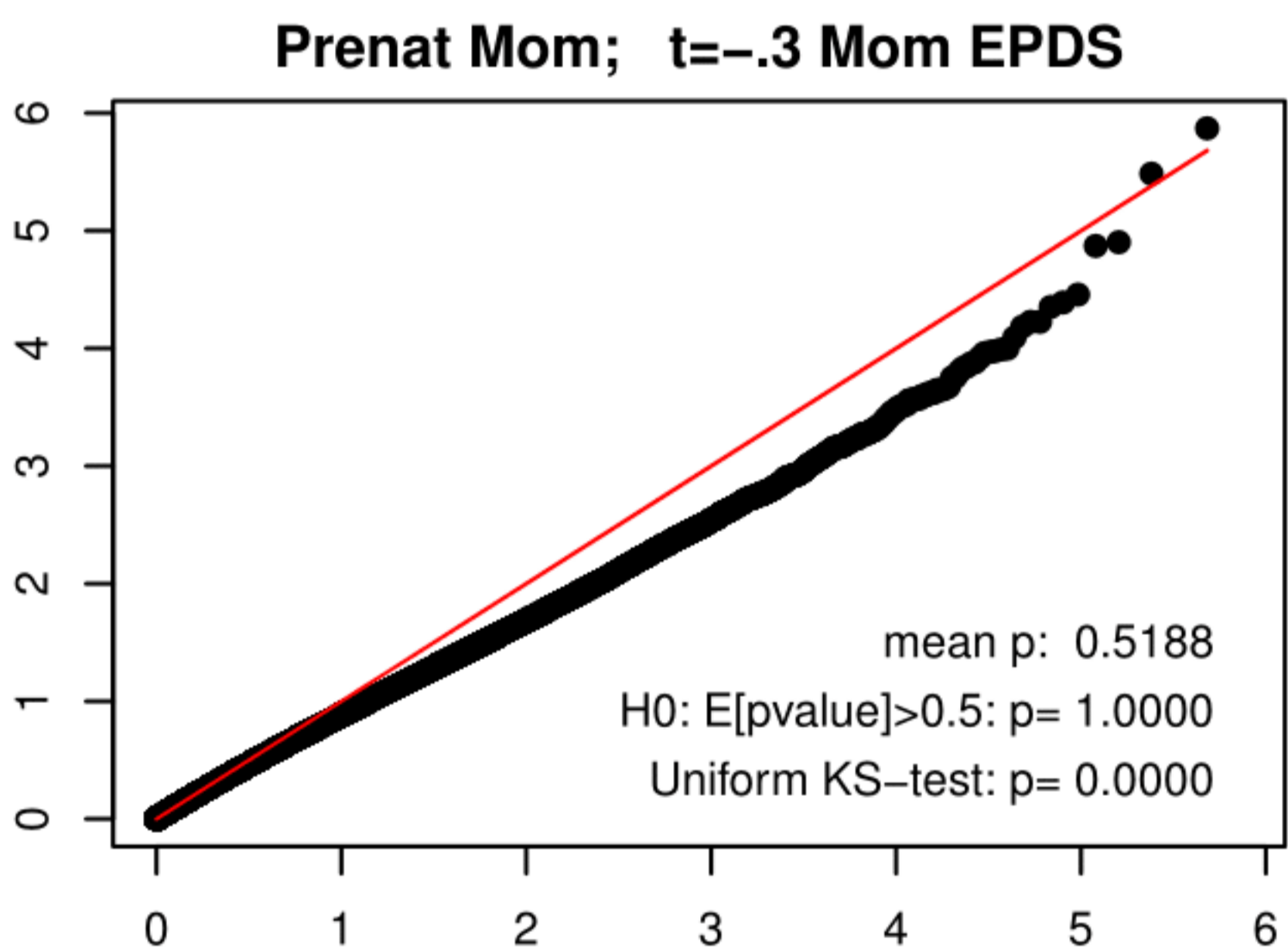
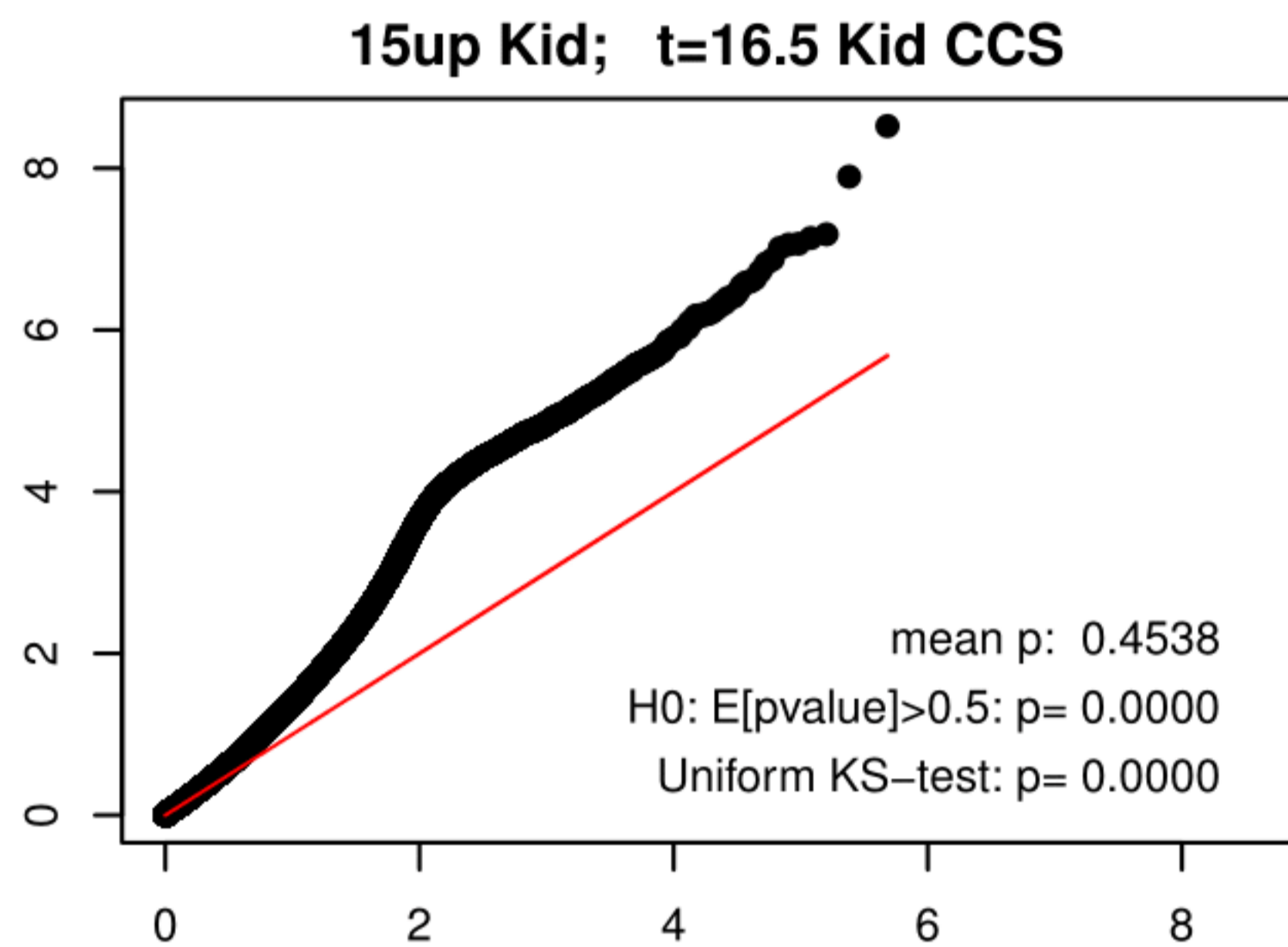
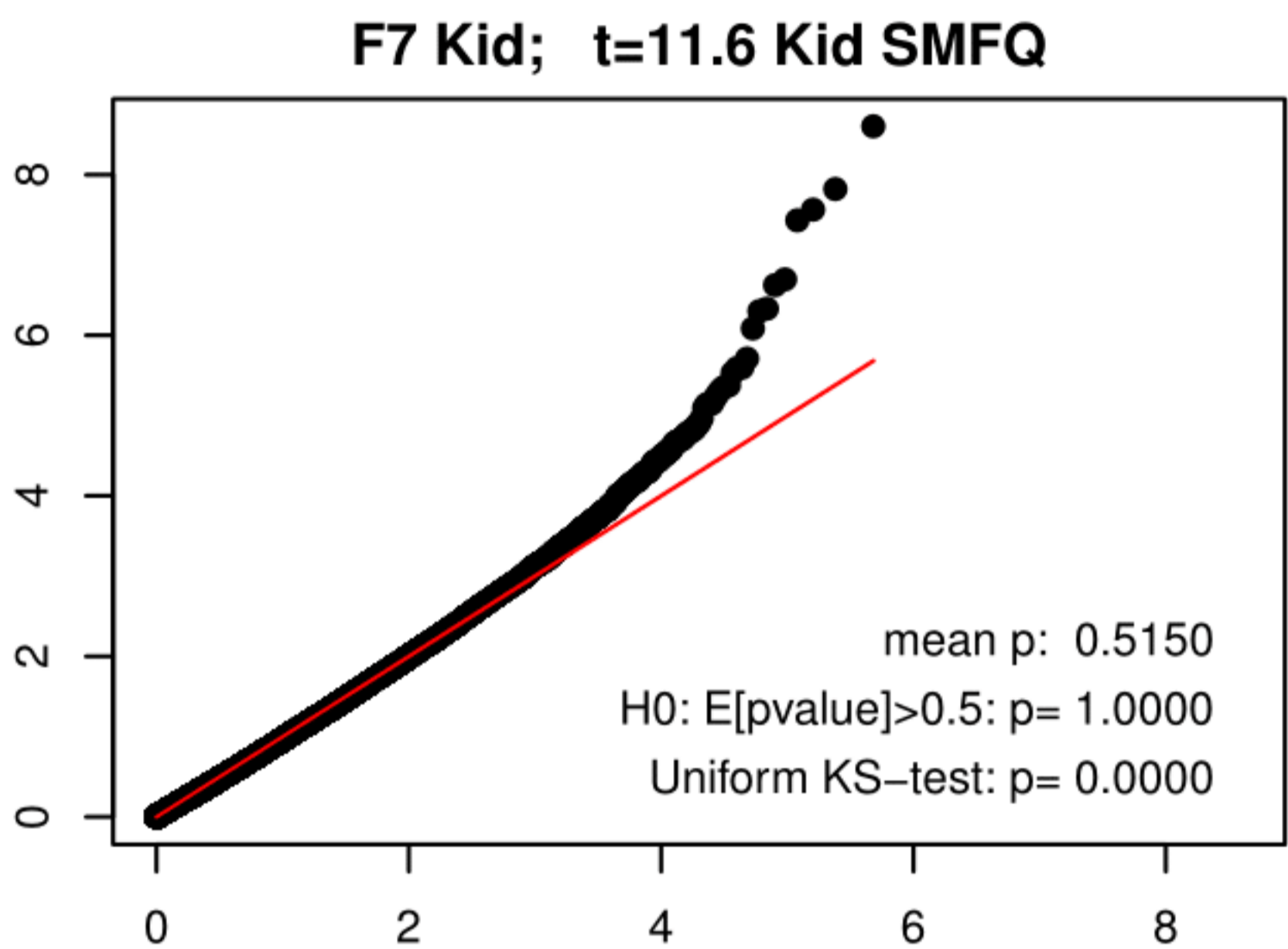
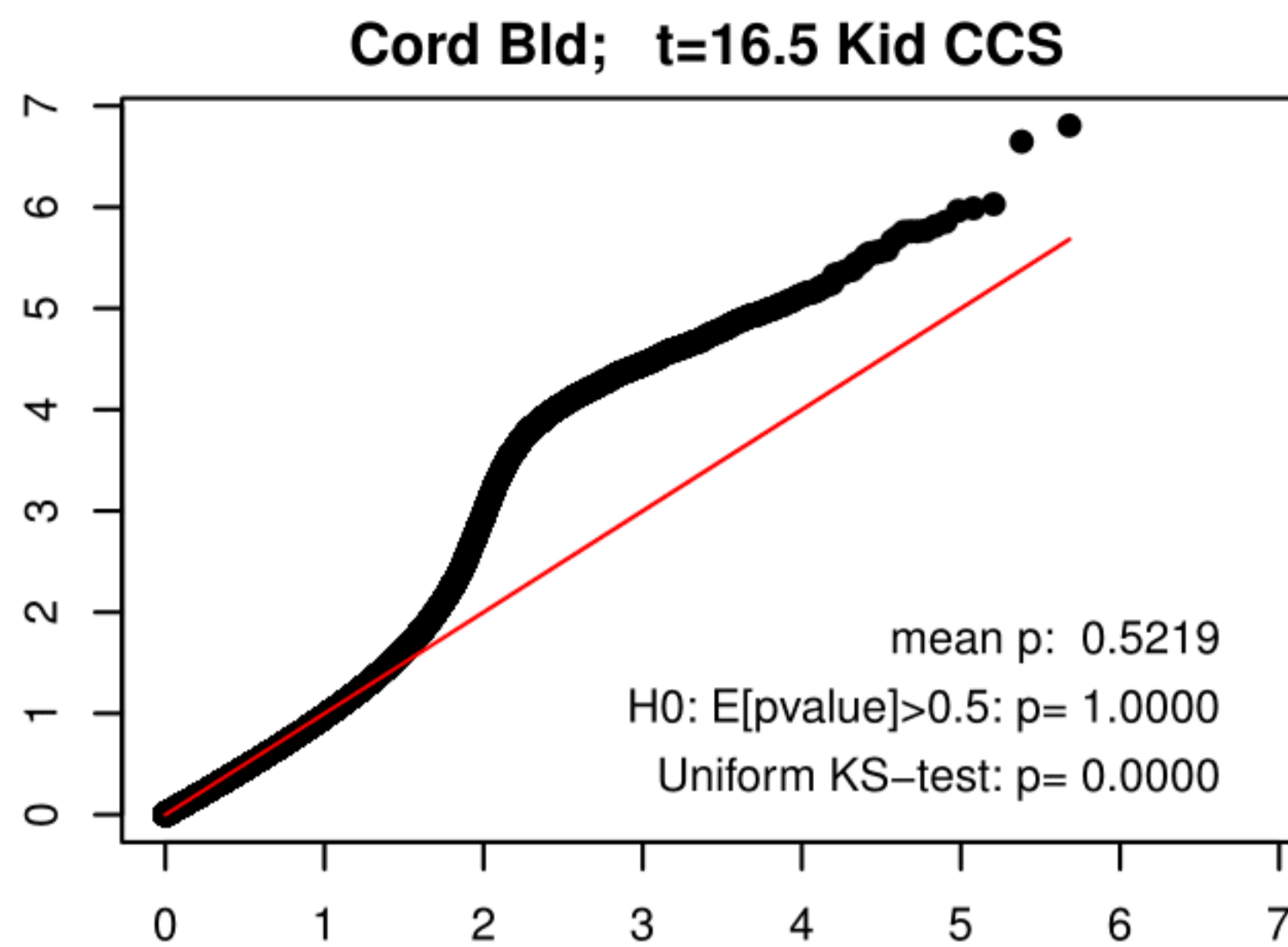
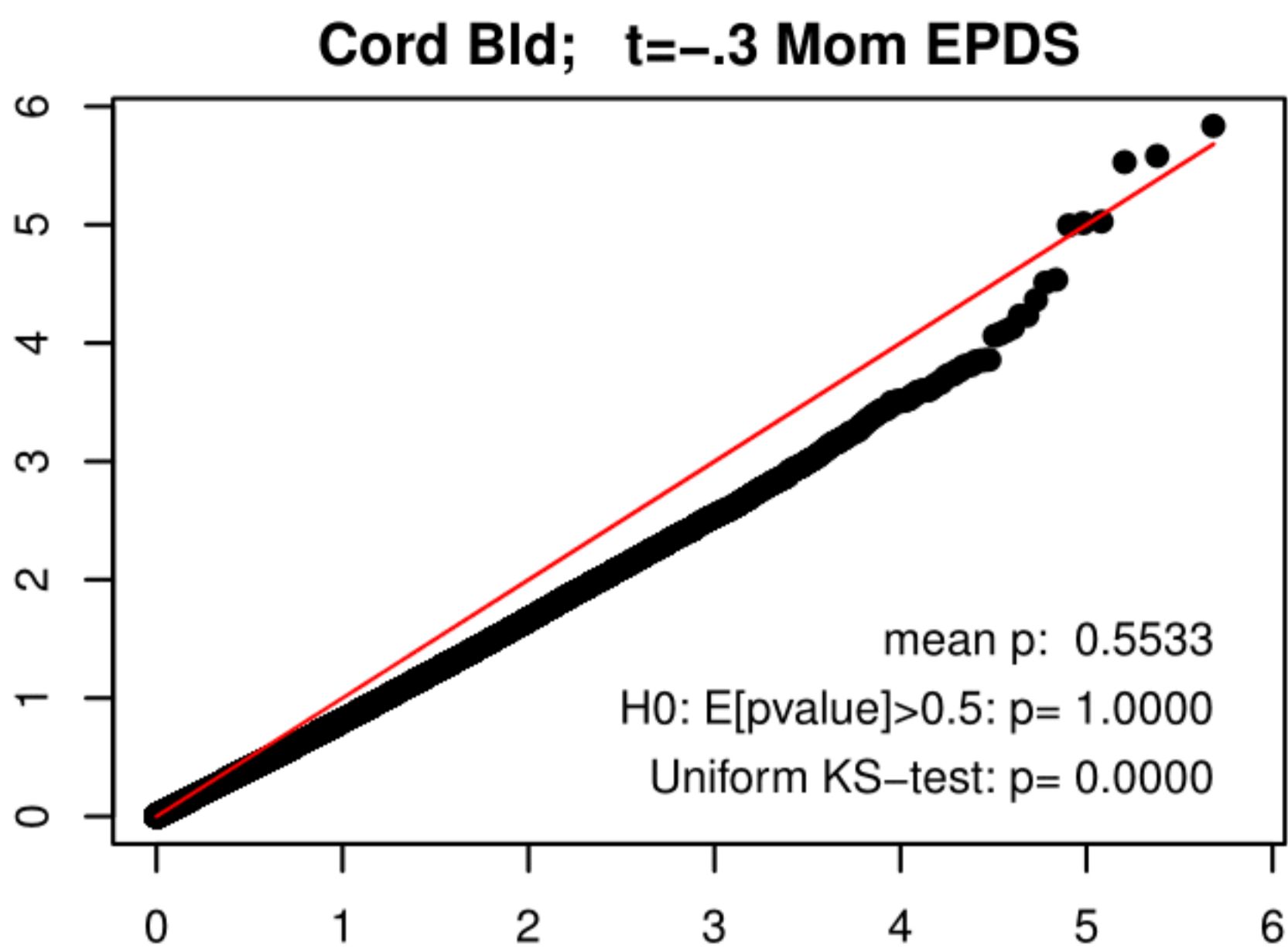


15up Kid; Mom Dep. Avg.



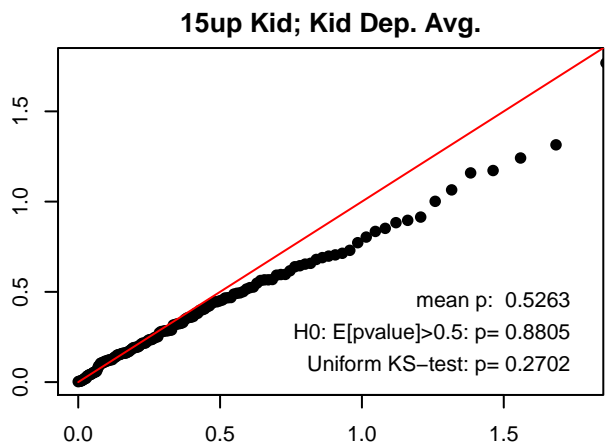
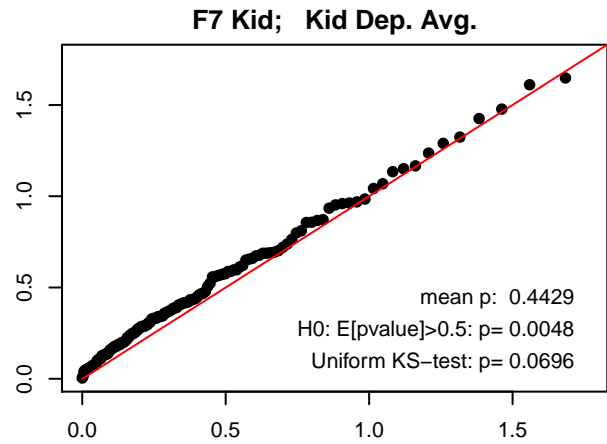
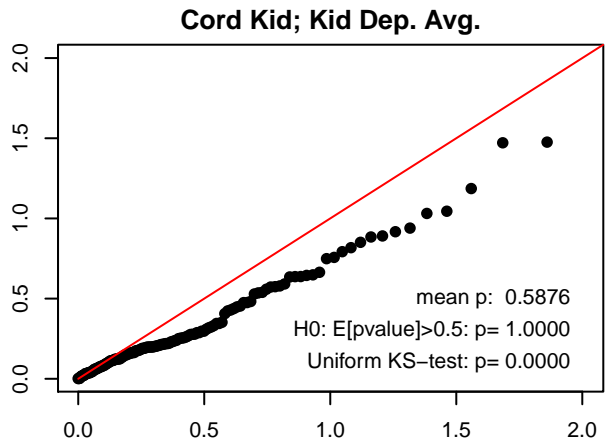
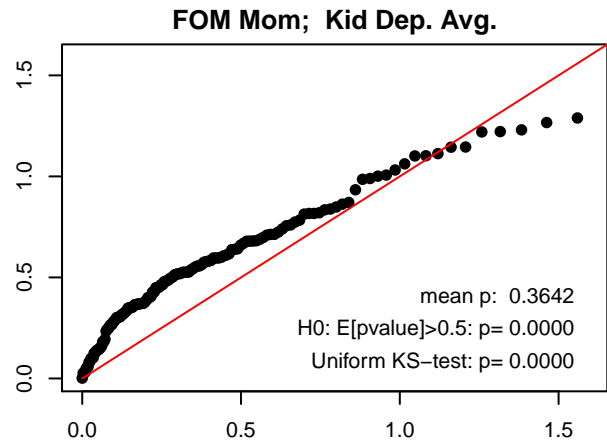
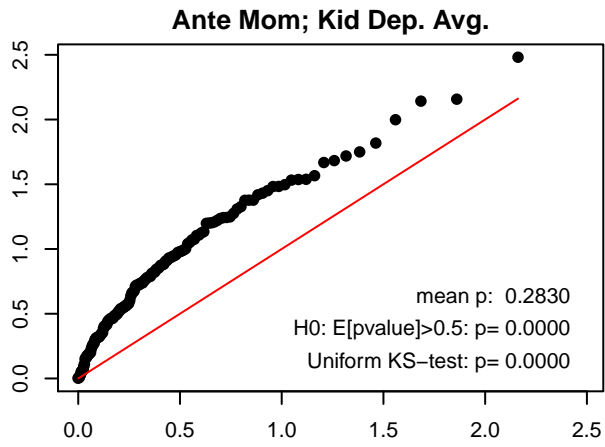
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QQ Plots: All Probes



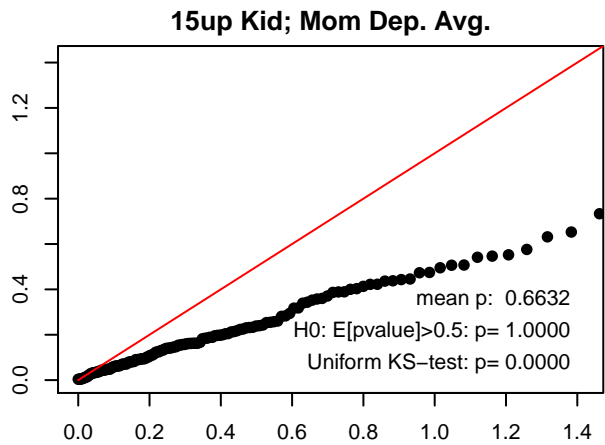
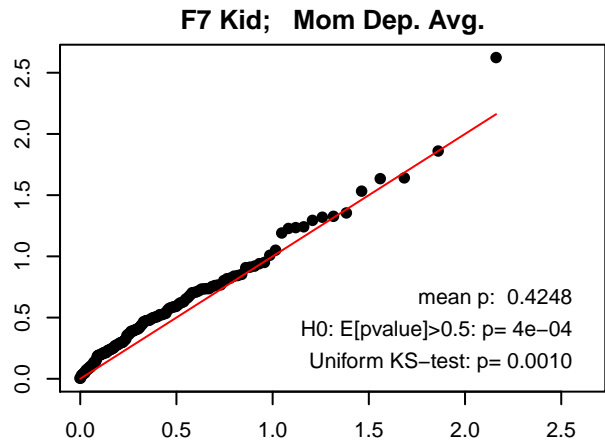
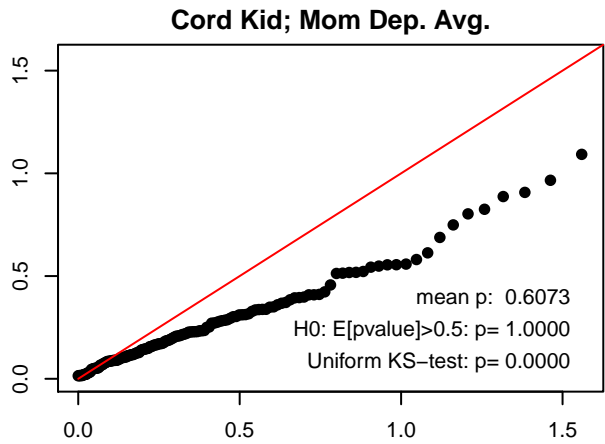
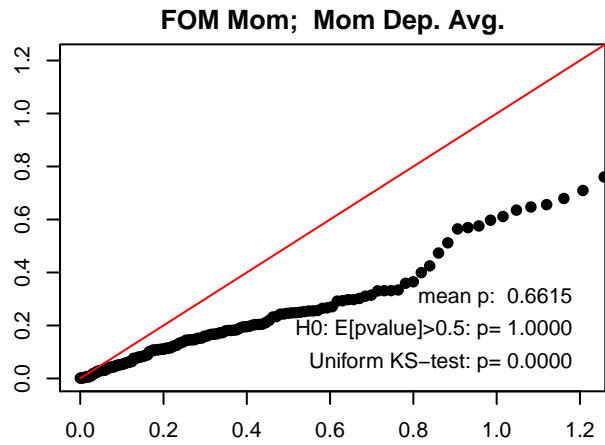
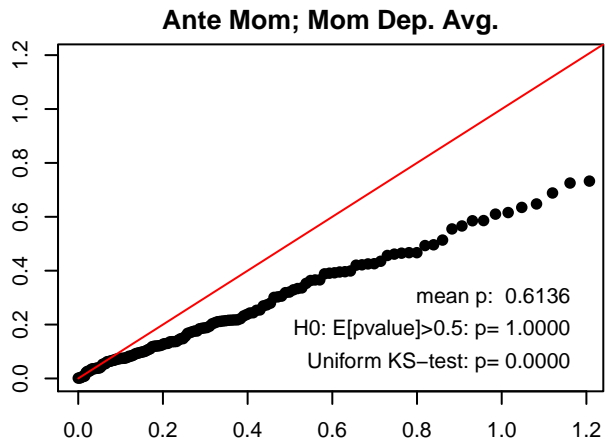
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QQ Plots: Nemoda Probes



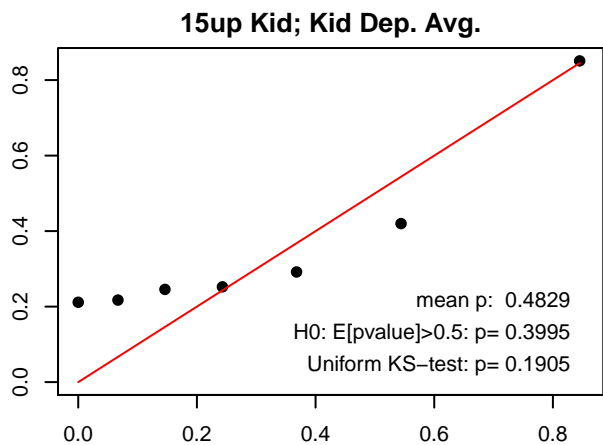
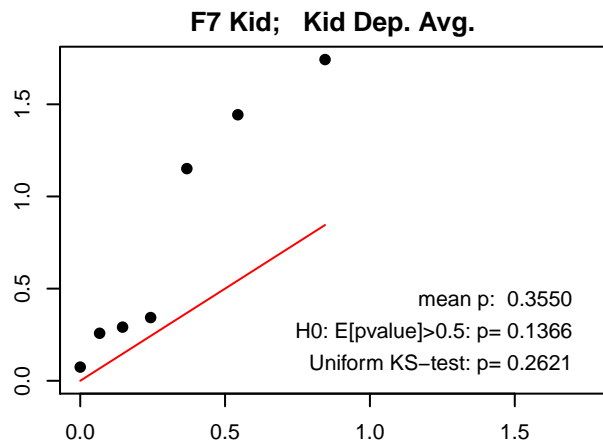
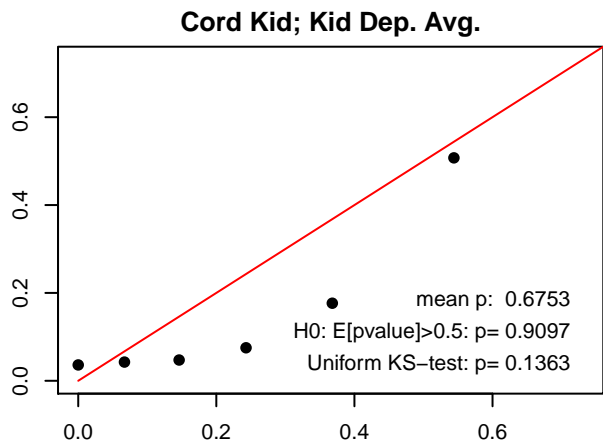
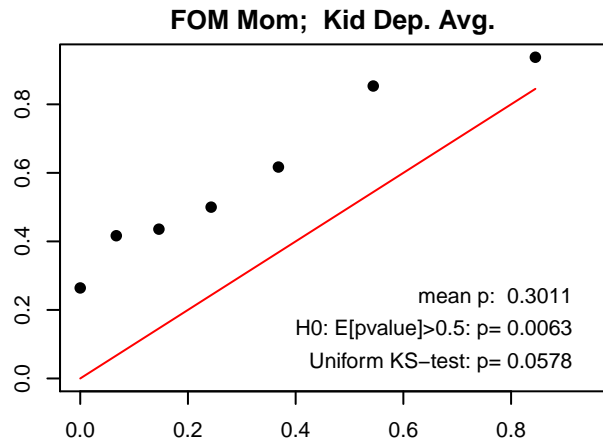
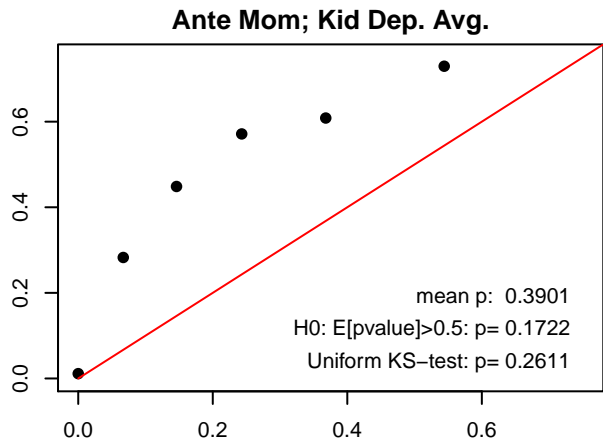
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QQ Plots: Nemoda Probes



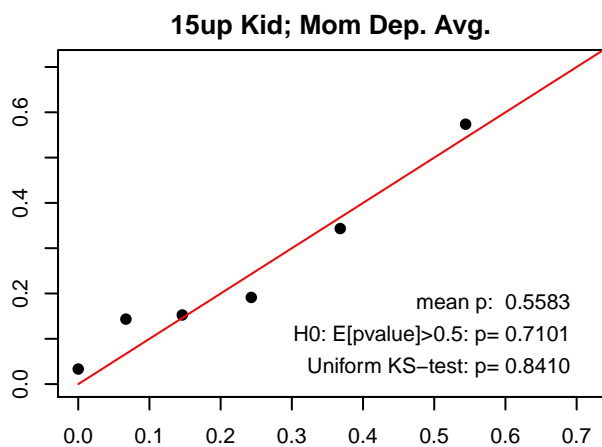
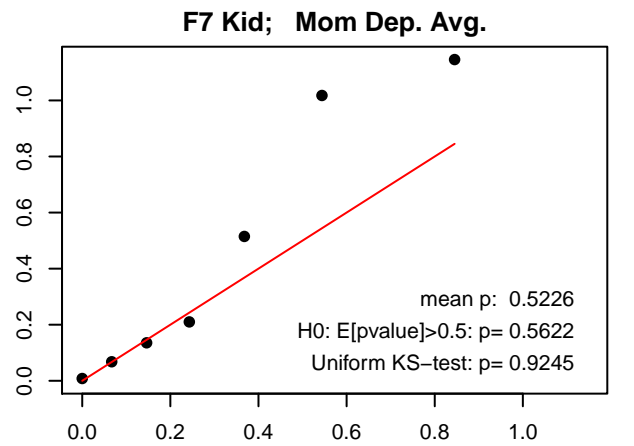
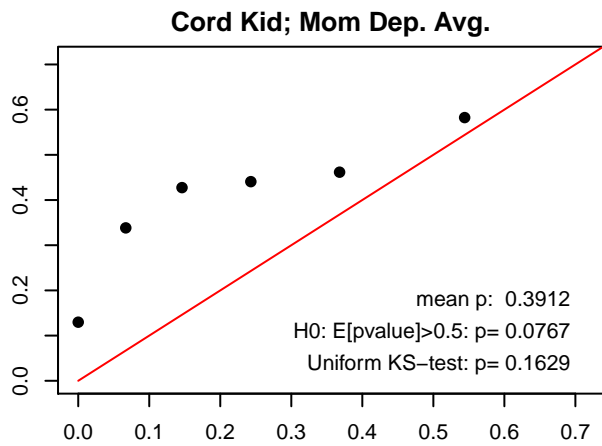
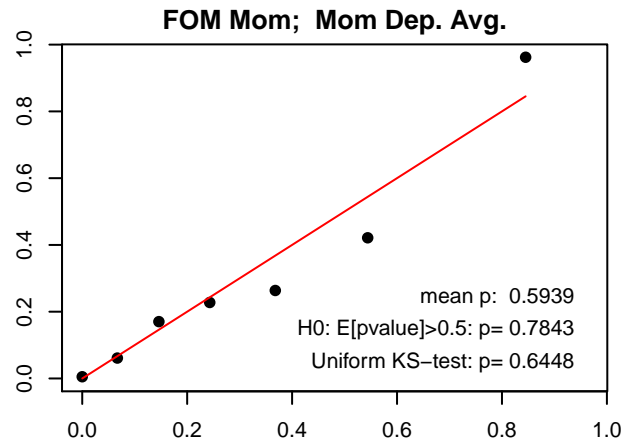
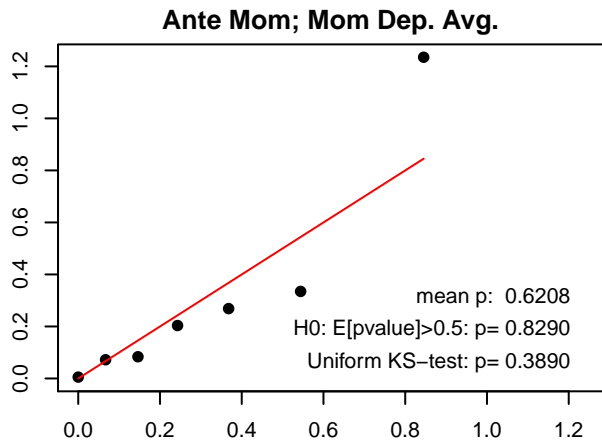
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QQ Plots: Cecil–Sexual Abuse Probes



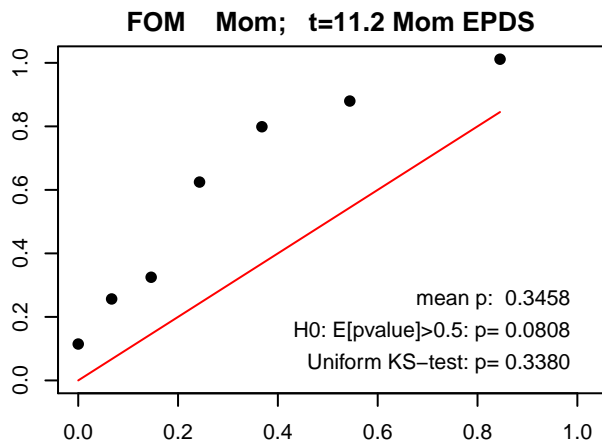
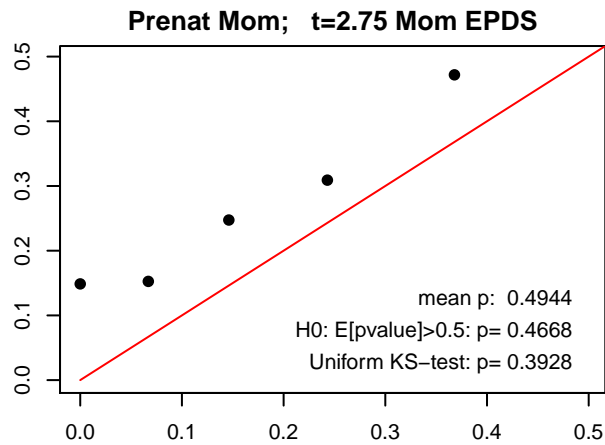
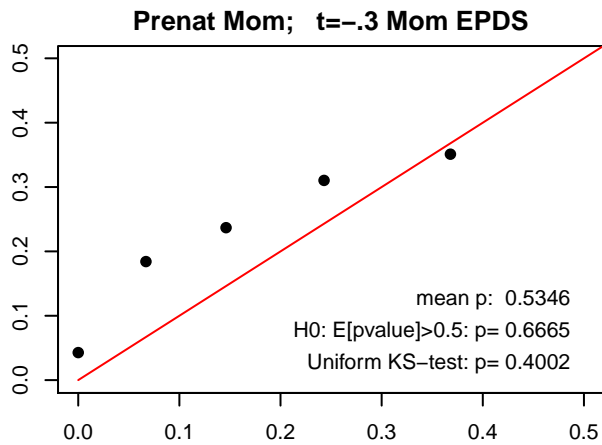
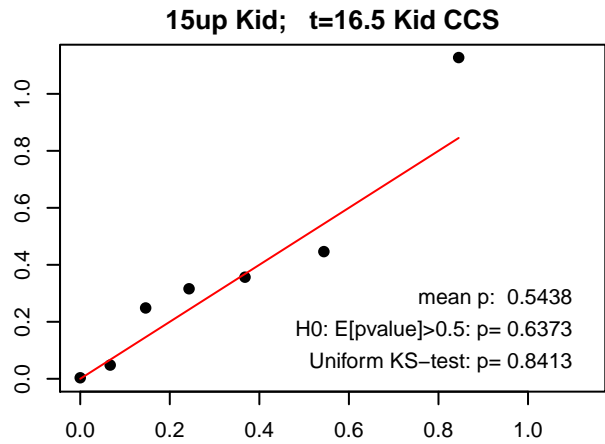
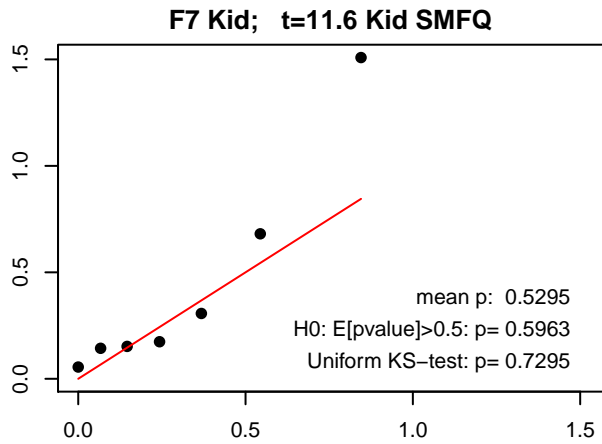
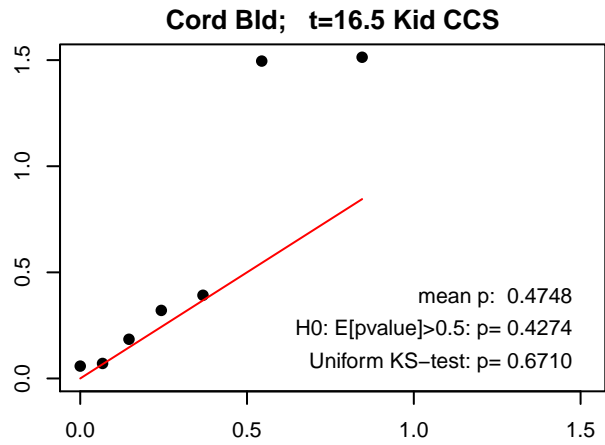
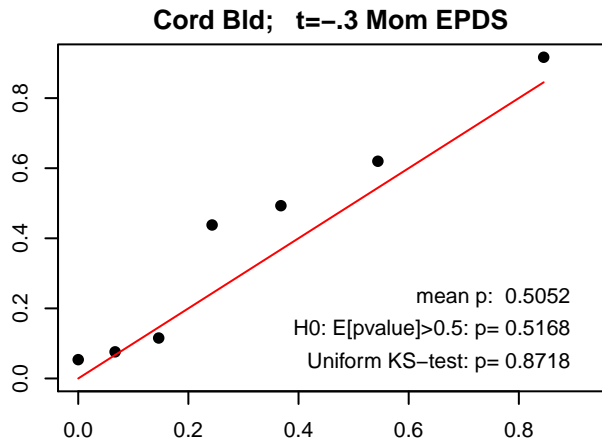
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QQ Plots: Cecil–Sexual Abuse Probes



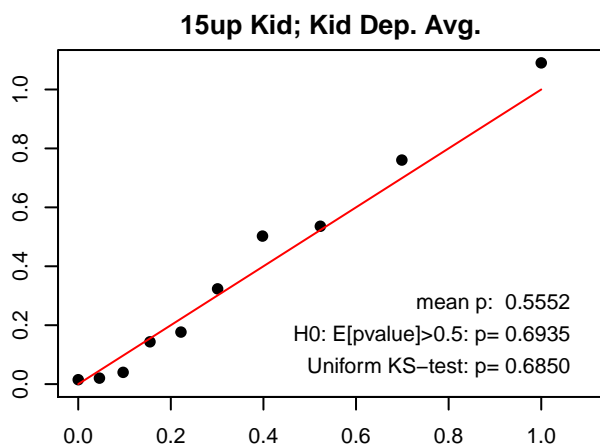
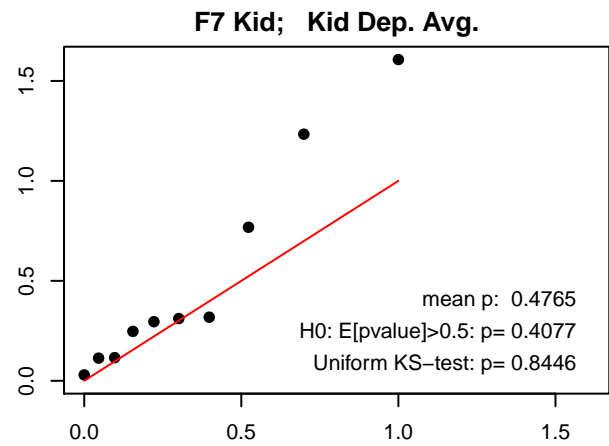
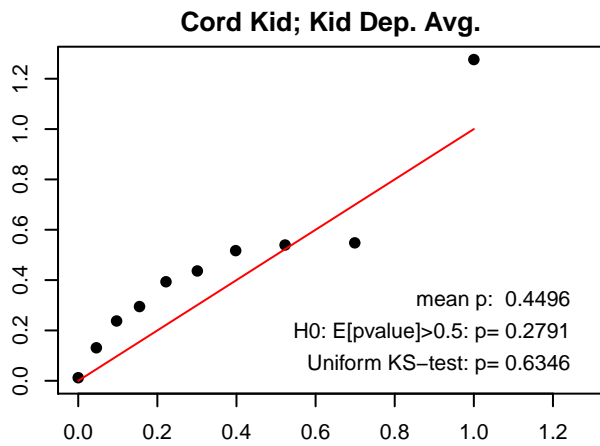
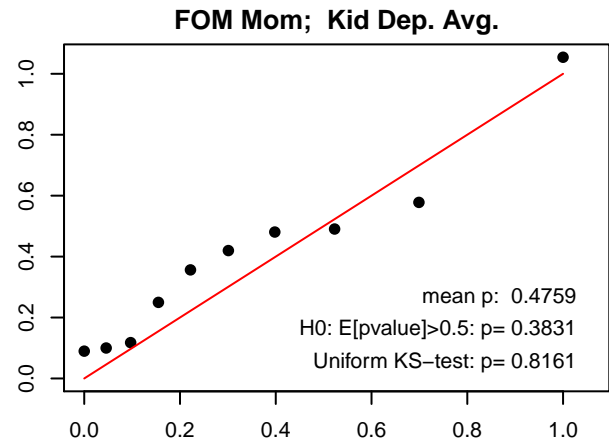
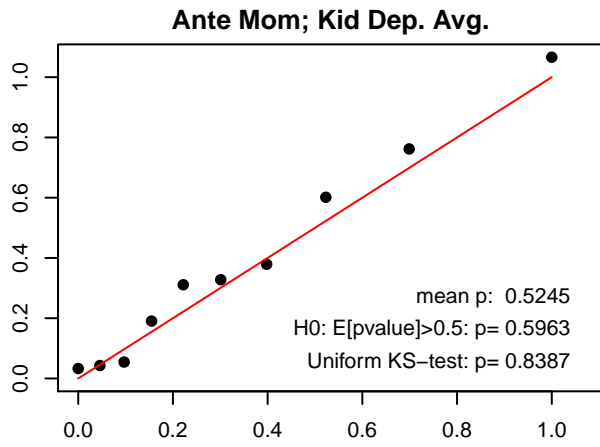
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QQ Plots: Cecil–Sexual Abuse Probes



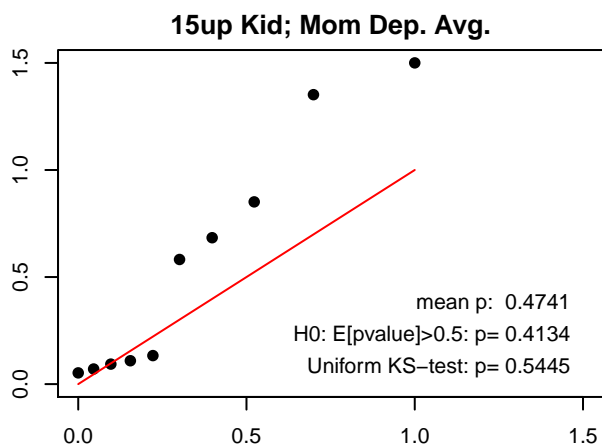
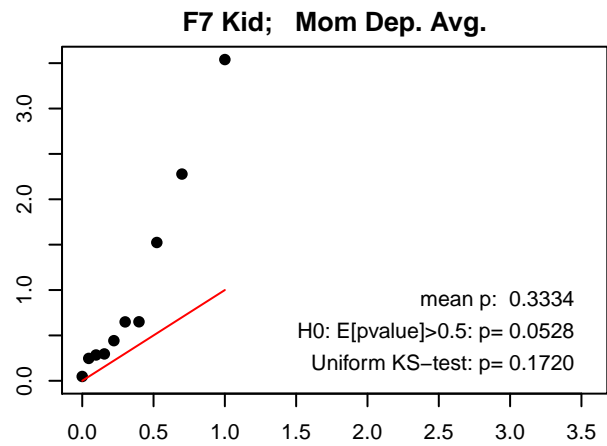
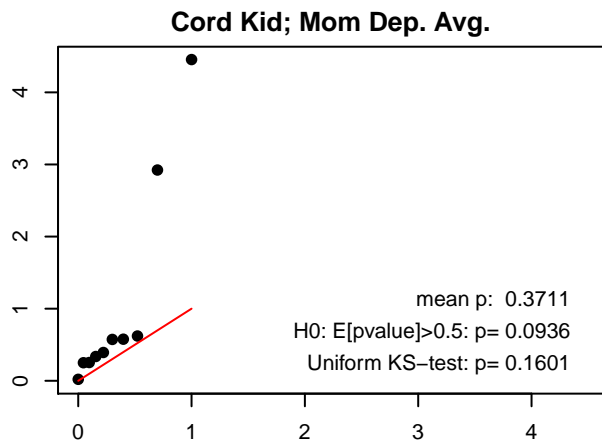
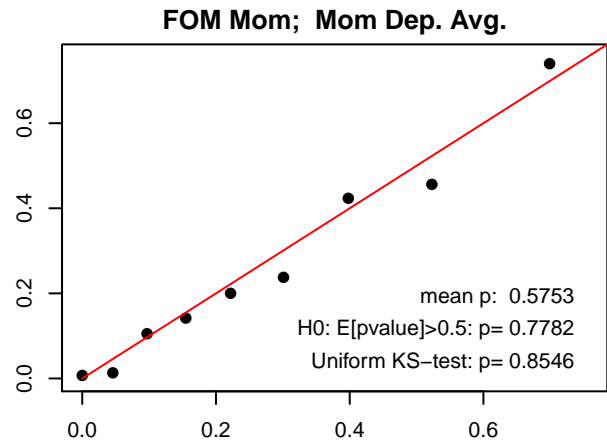
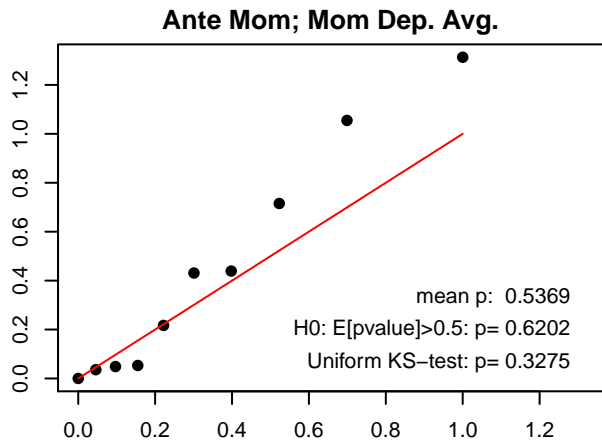
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QQ Plots: Cecil-Physical Neglect Probes



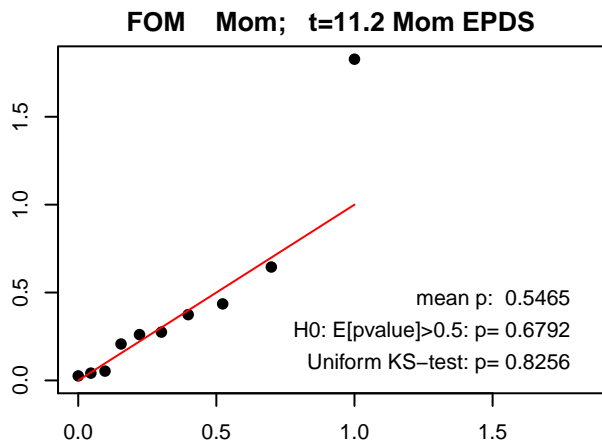
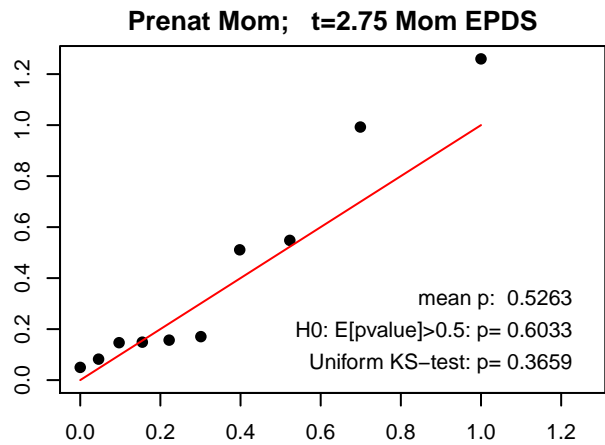
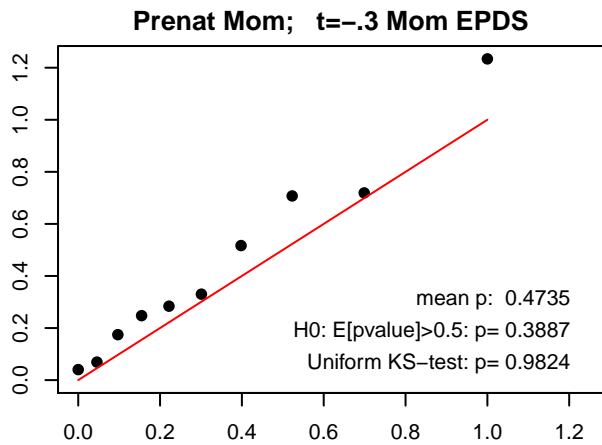
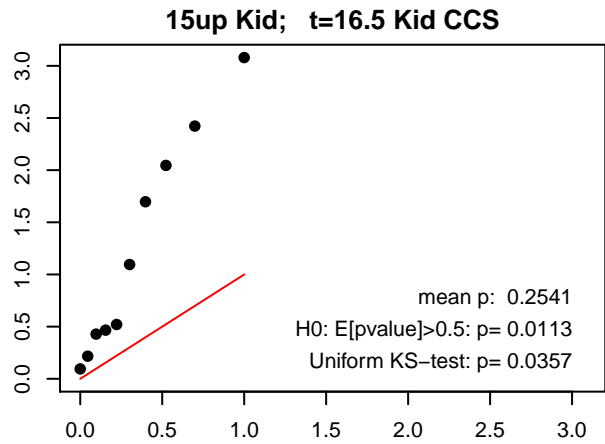
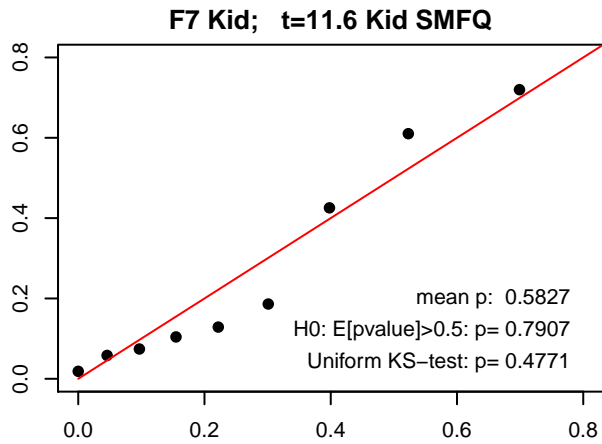
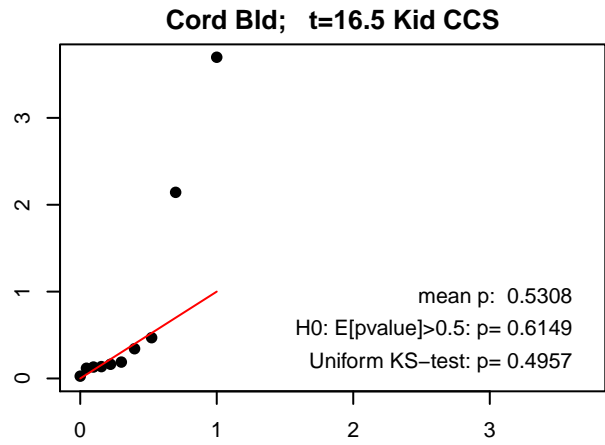
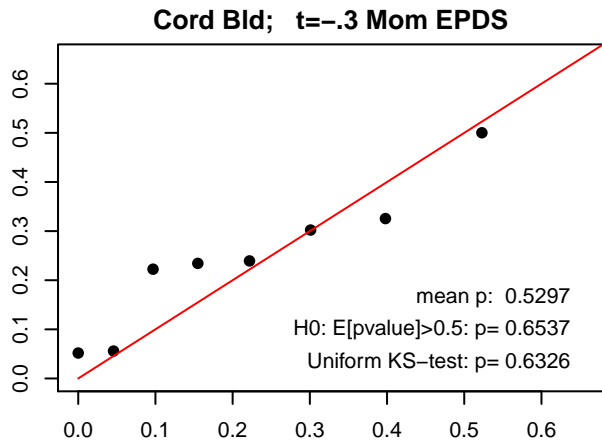
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QQ Plots: Cecil-Physical Neglect Probes



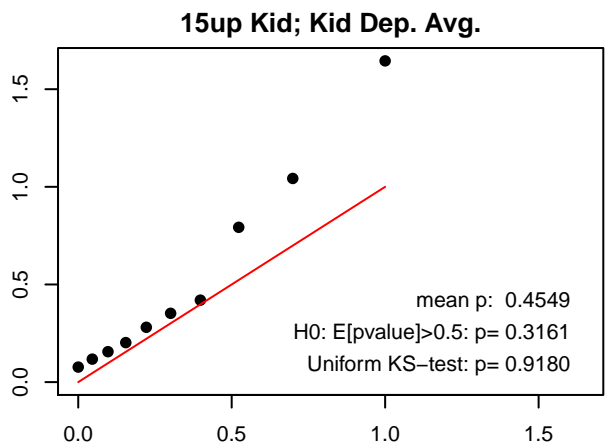
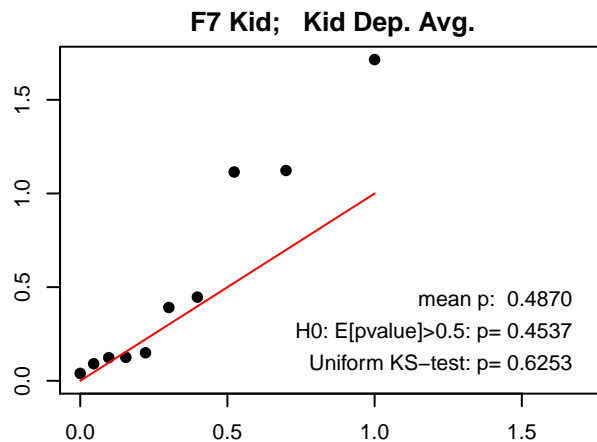
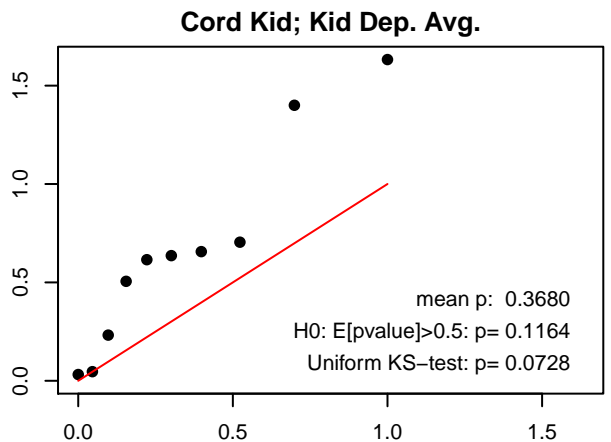
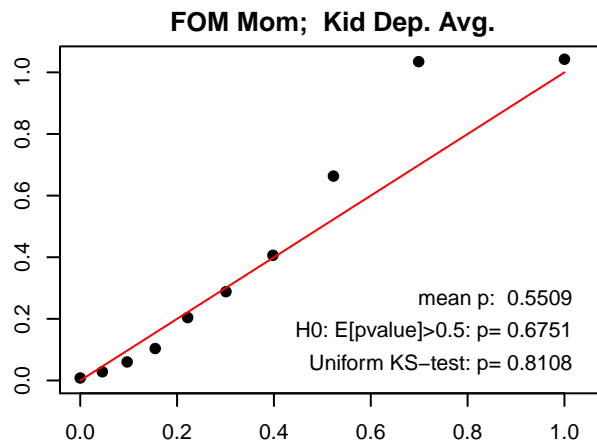
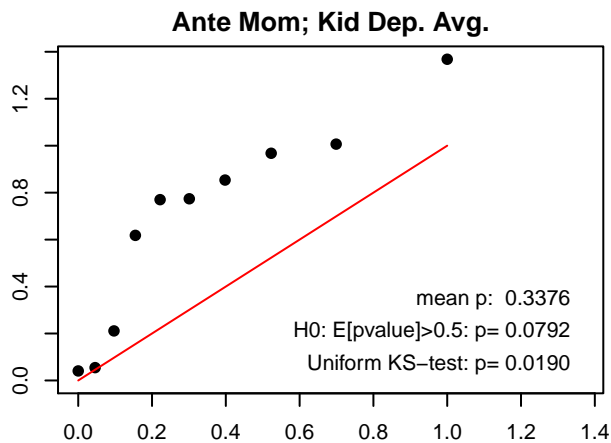
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QQ Plots: Cecil-Physical Neglect Probes



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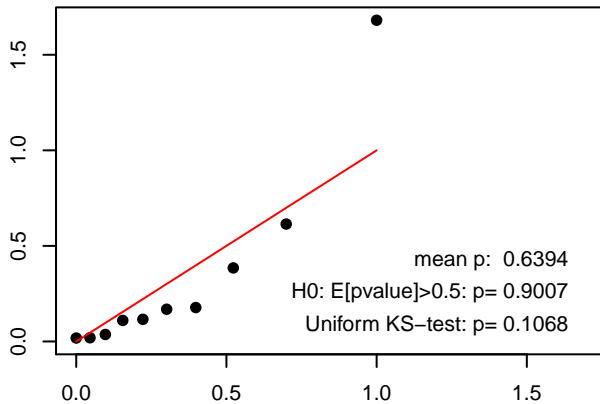
QQ Plots: Cecil-Physical Abuse Probes



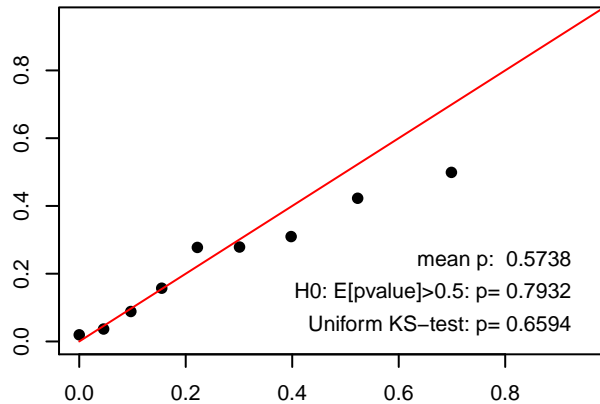
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QQ Plots: Cecil-Physical Abuse Probes

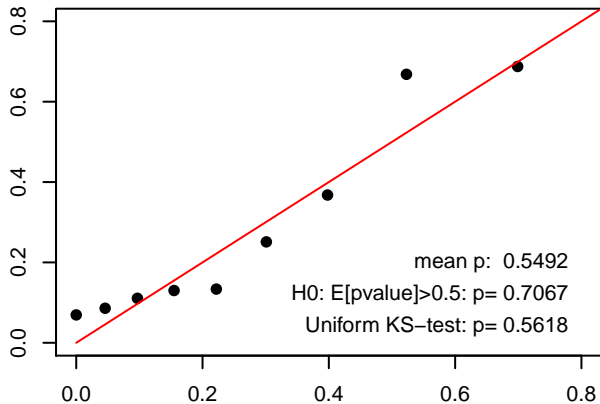
Ante Mom; Mom Dep. Avg.



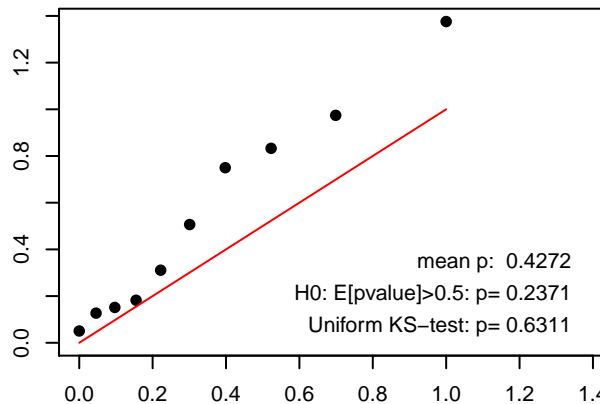
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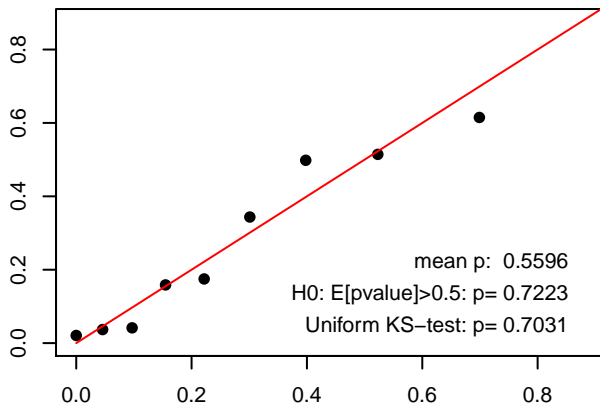
Cord Kid; Mom Dep. Avg.



F7 Kid; Mom Dep. Avg.

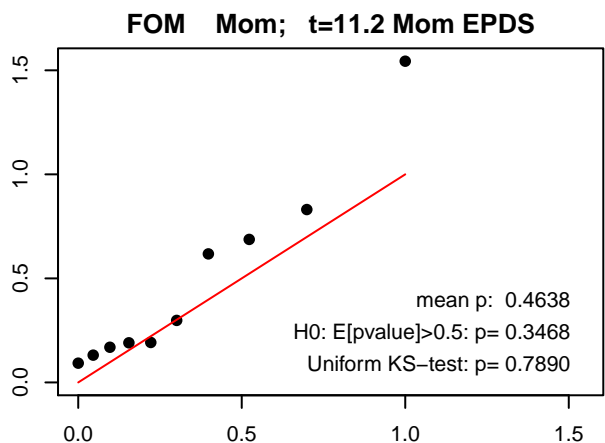
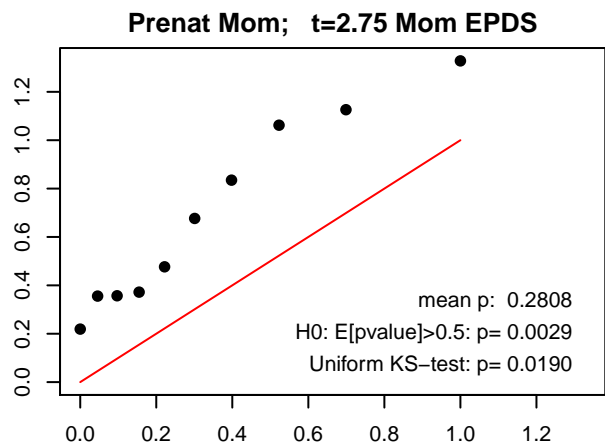
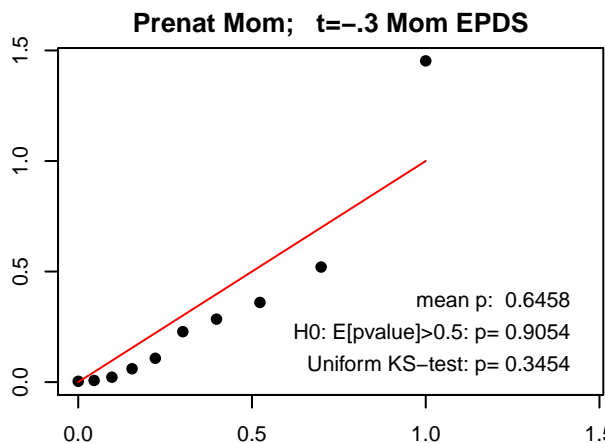
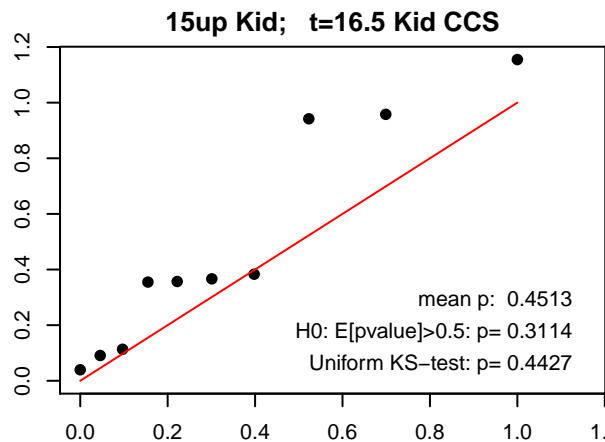
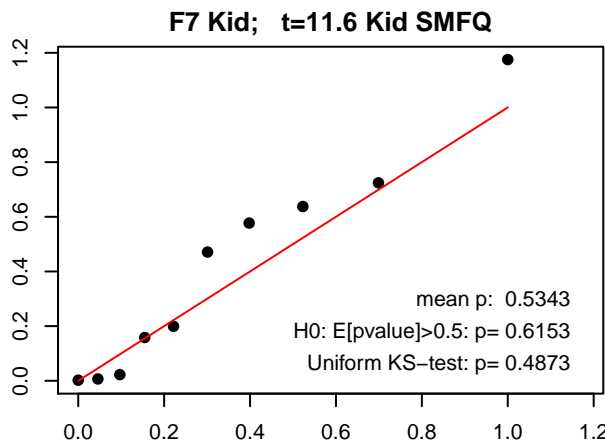
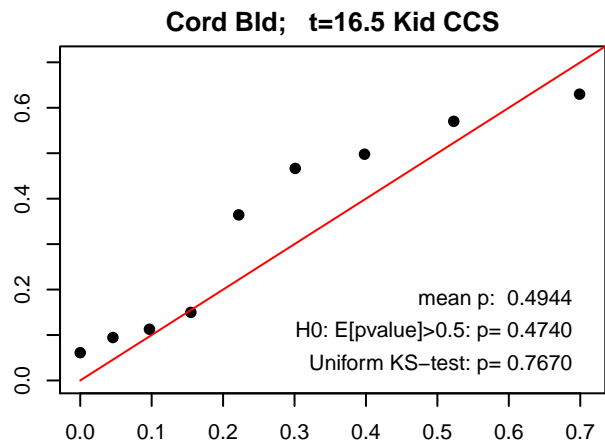
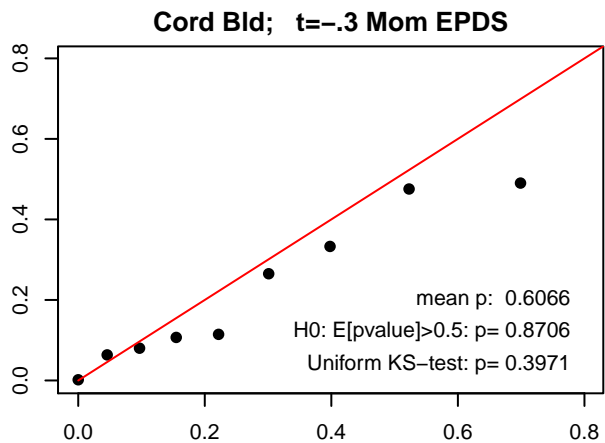


15up Kid; Mom Dep. Avg.



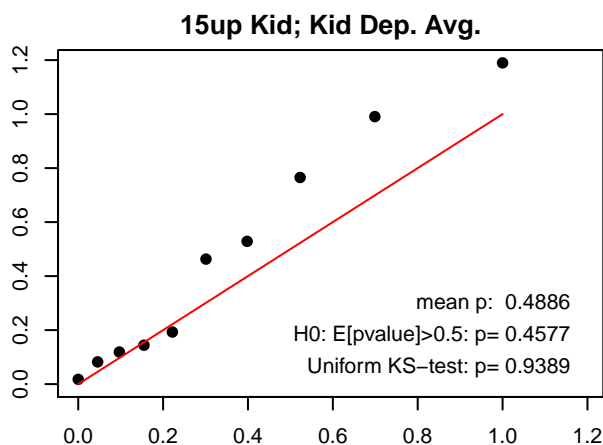
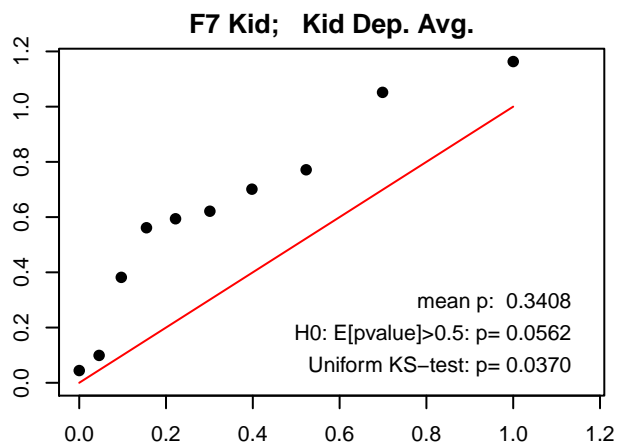
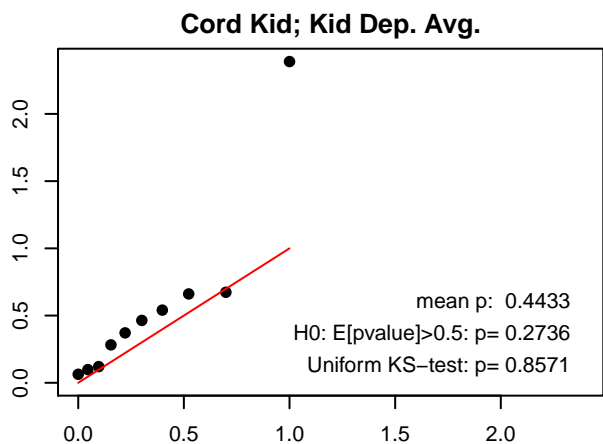
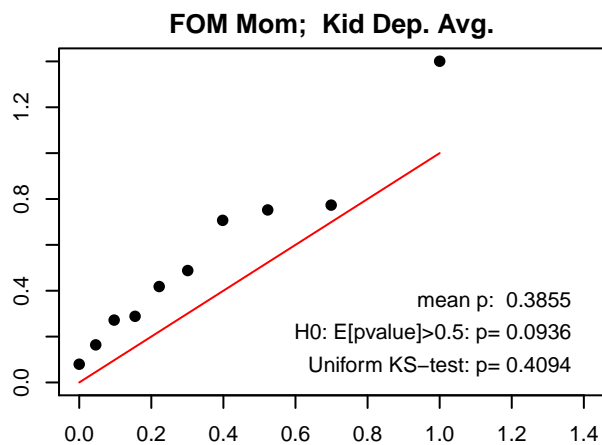
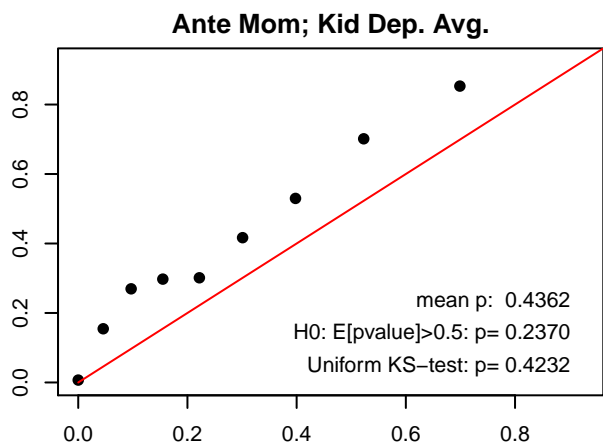
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QQ Plots: Cecil-Physical Abuse Probes



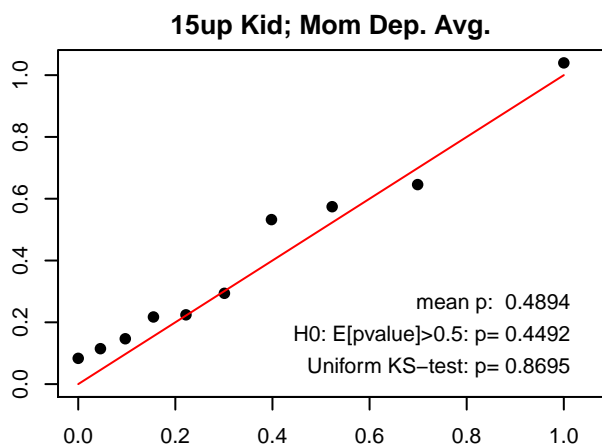
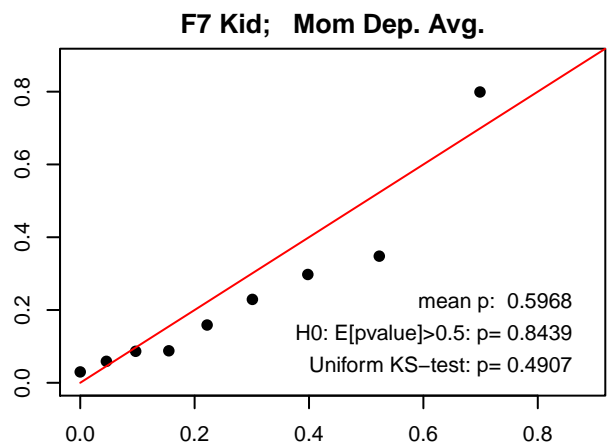
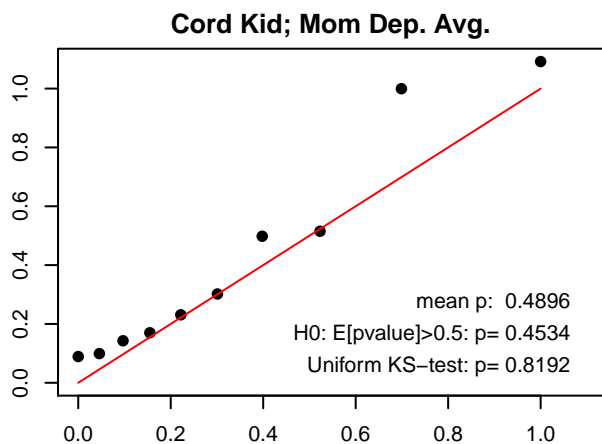
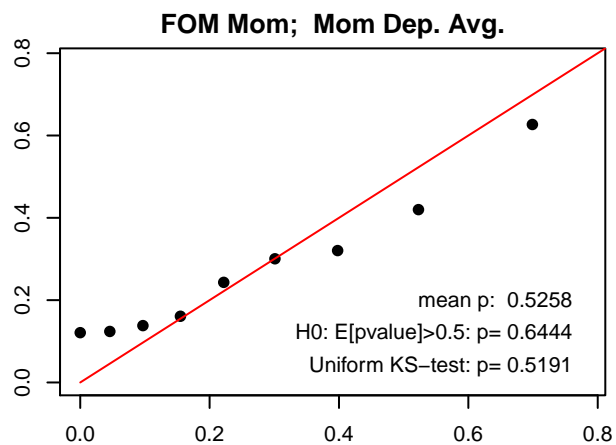
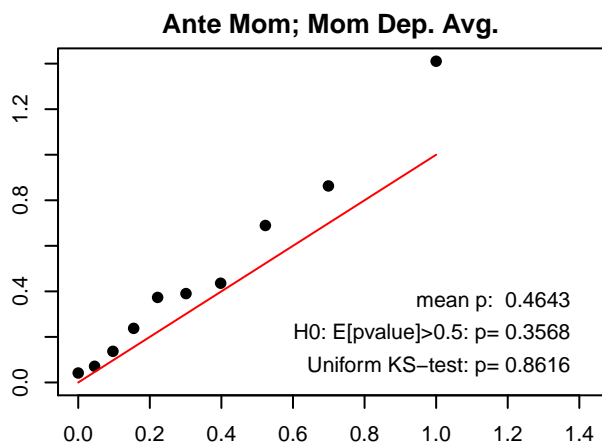
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QQ Plots: Glad-Free Cortisol Probes



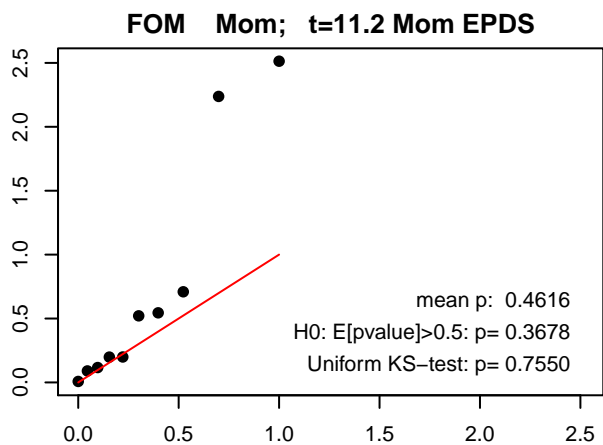
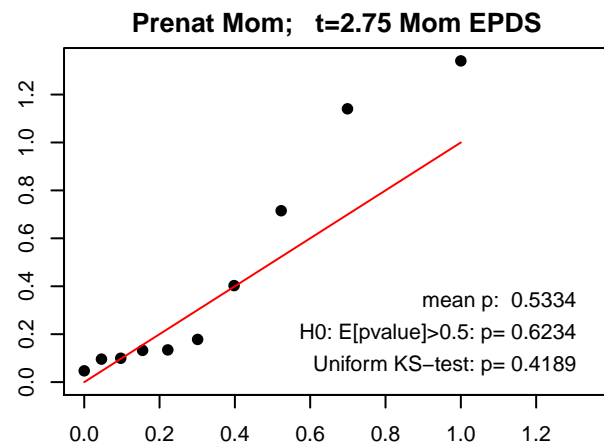
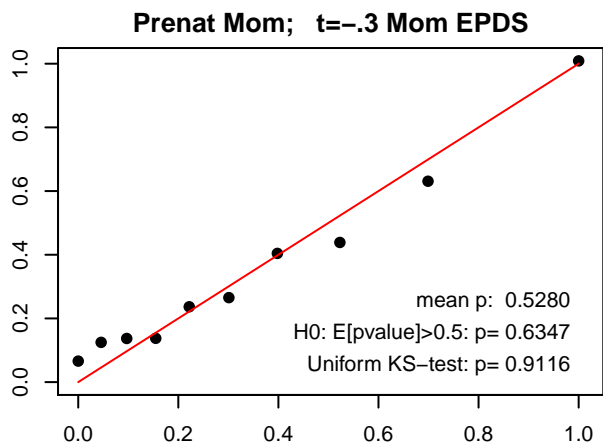
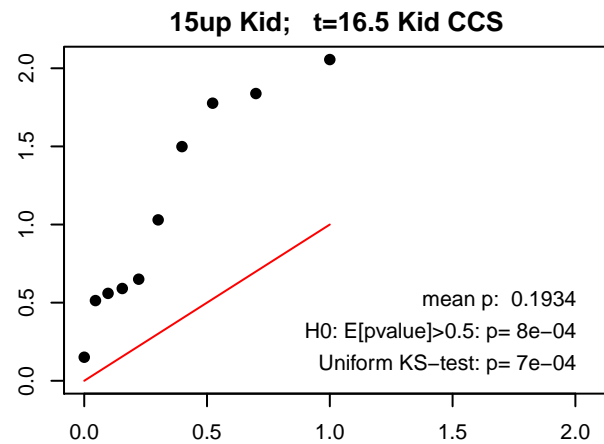
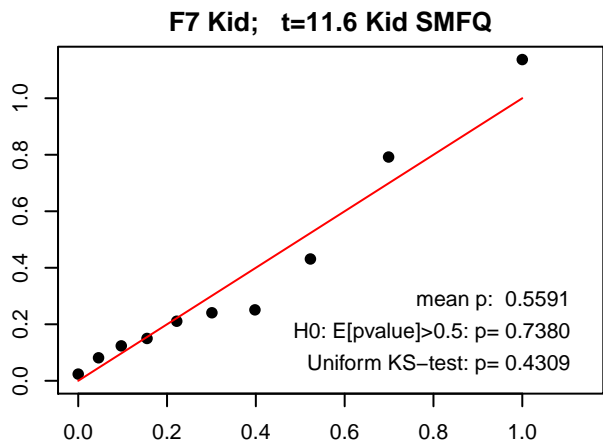
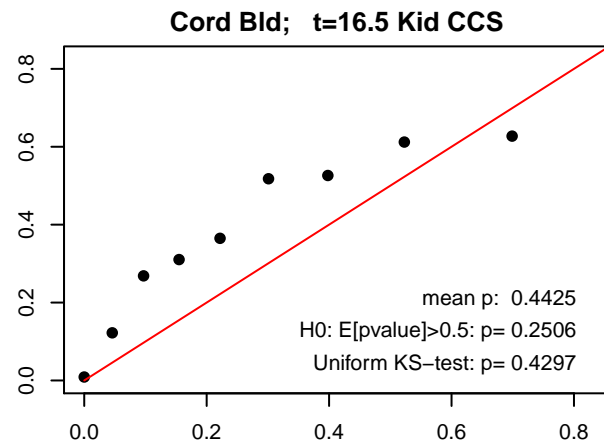
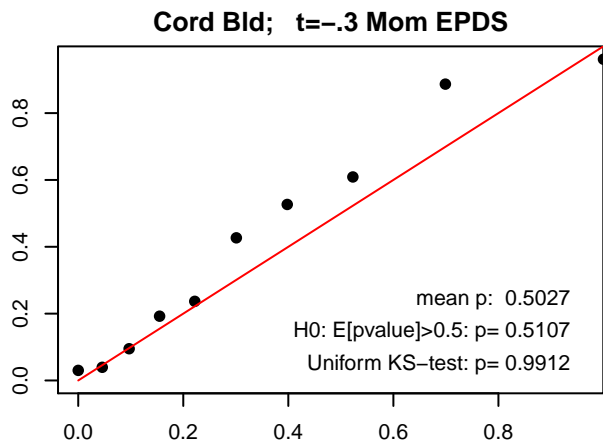
x-axis: $-\log_{10}(\text{expected p-value})$; y-axis: $-\log_{10}(\text{observed p-value})$
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QQ Plots: Glad-Free Cortisol Probes



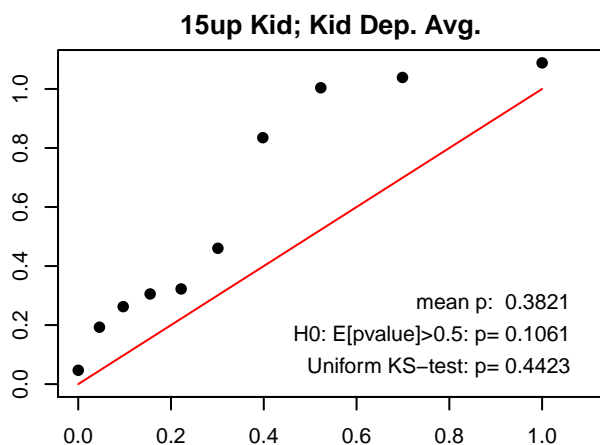
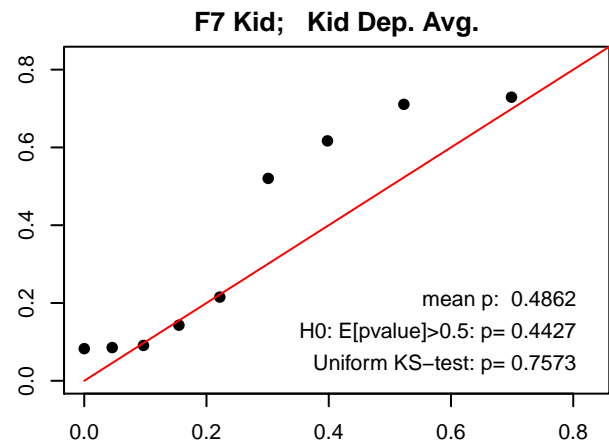
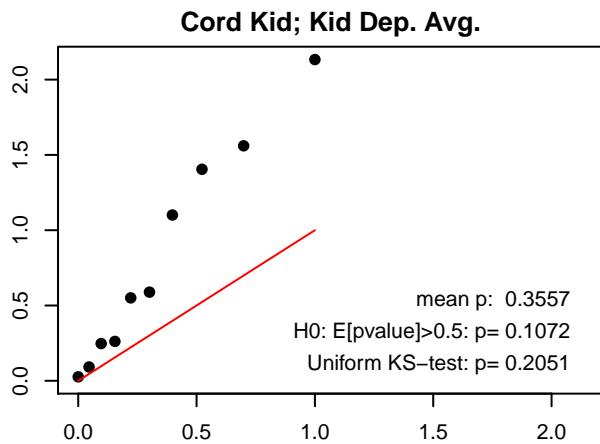
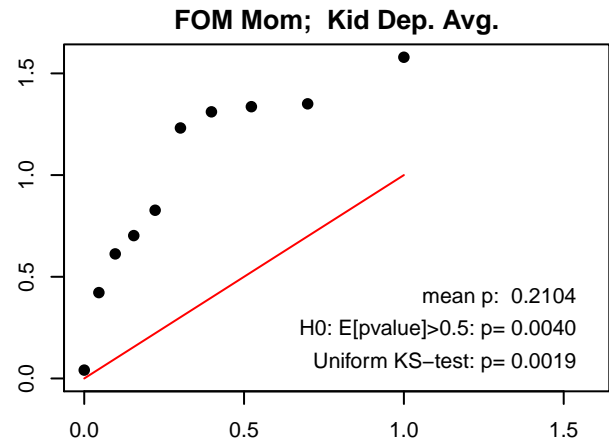
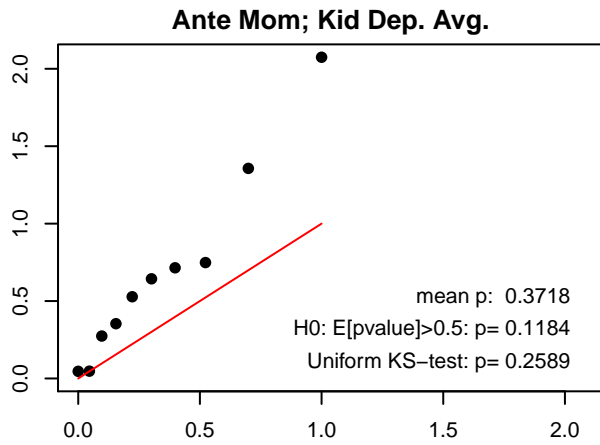
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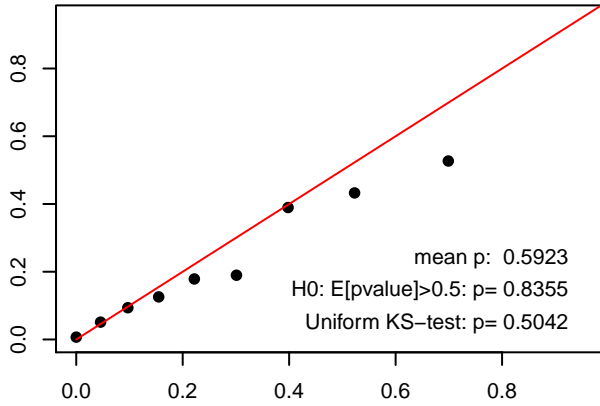
QQ Plots: Glad-Delta Cortisol Probes



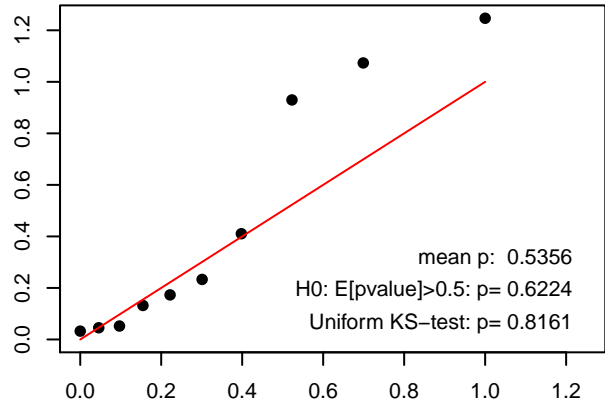
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 Uniform KS-test: tests for uniformity of observed p-value distribution using Kolmogorov-Smirnov test.
 H0: E[pvalue]>0.5: applies one-sided t-test to the null that p-values are greater than 0.5.

QQ Plots: Glad-Delta Cortisol Probes

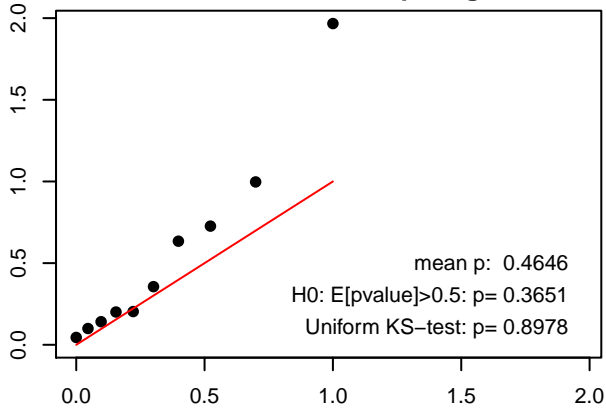
Ante Mom; Mom Dep. Avg.



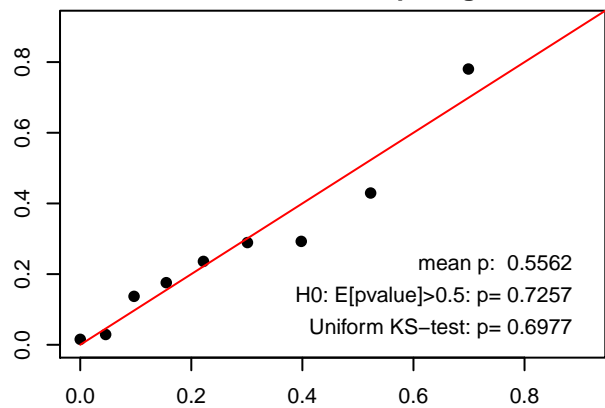
FOM Mom; Mom Dep. Avg.



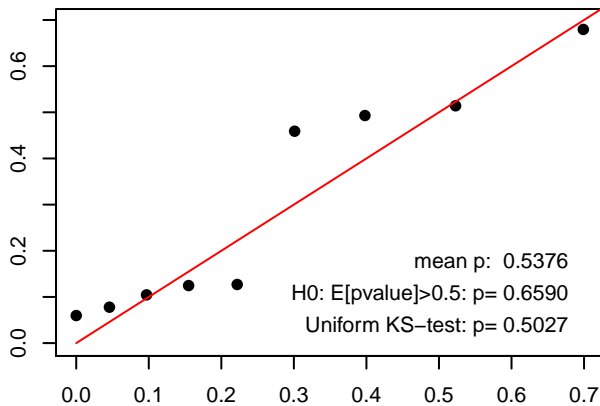
Cord Kid; Mom Dep. Avg.



F7 Kid; Mom Dep. Avg.

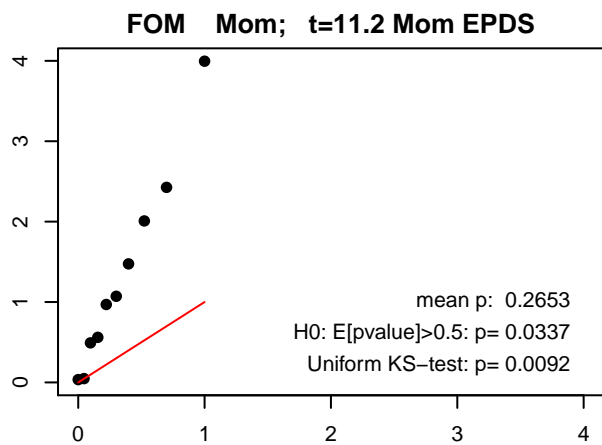
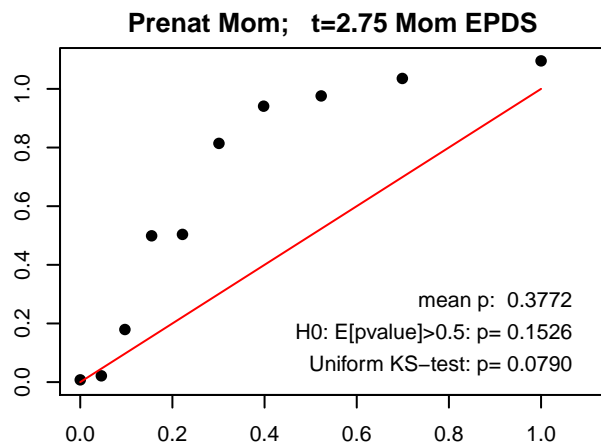
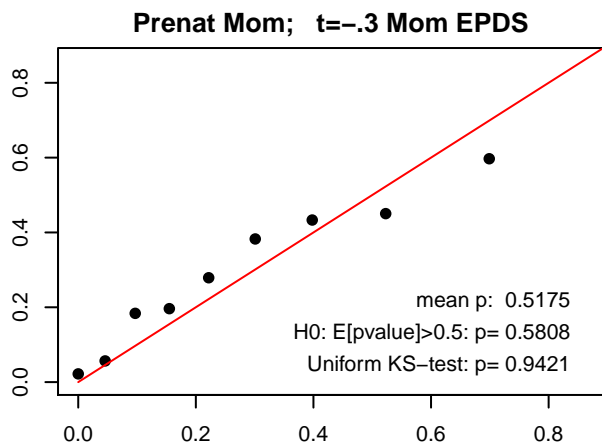
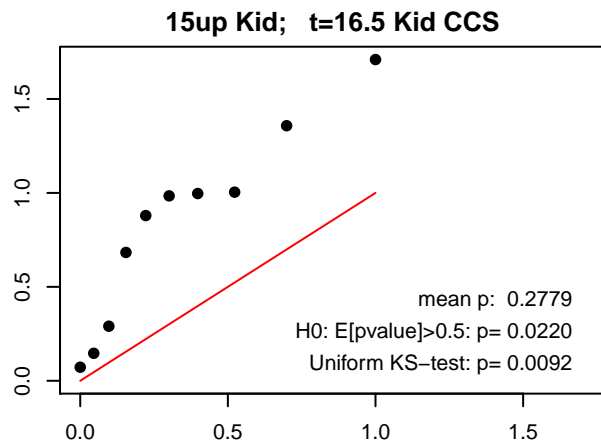
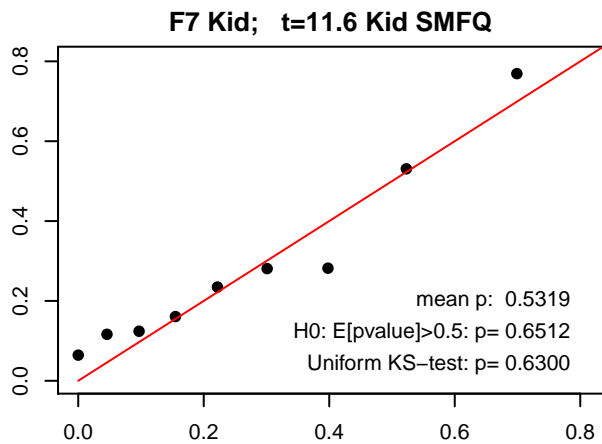
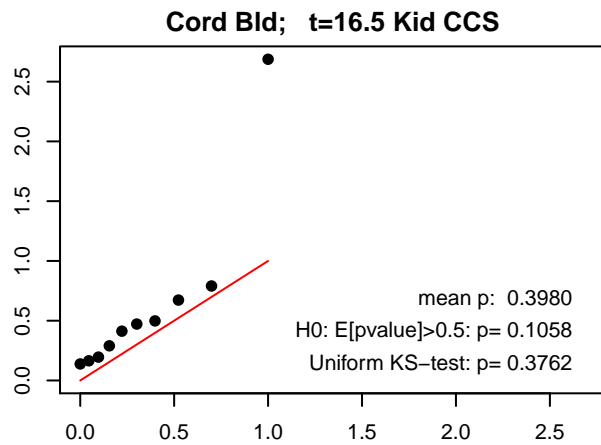
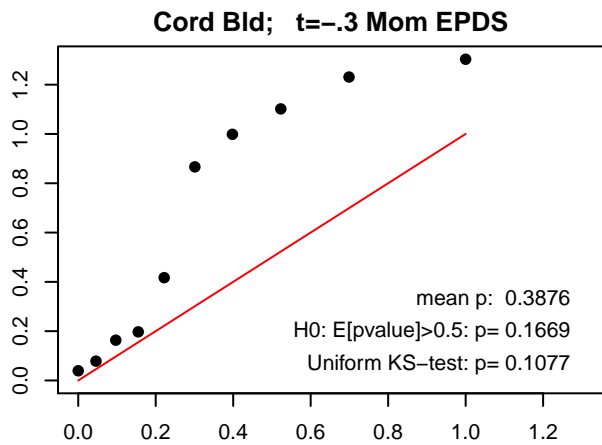


15up Kid; Mom Dep. Avg.



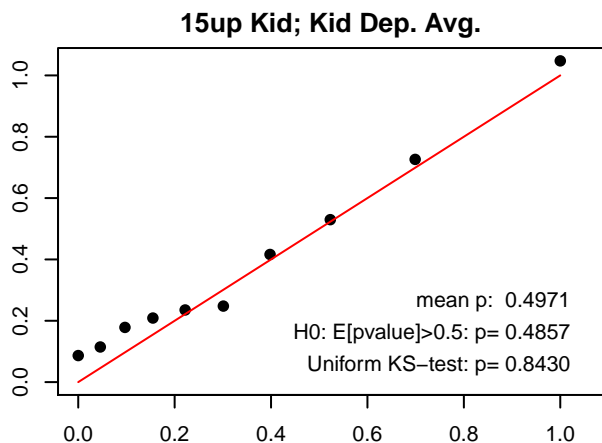
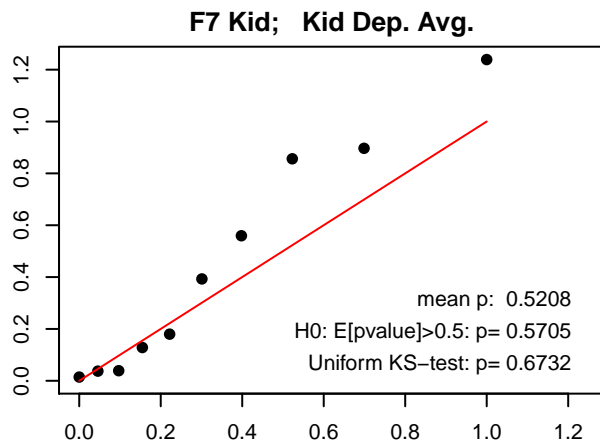
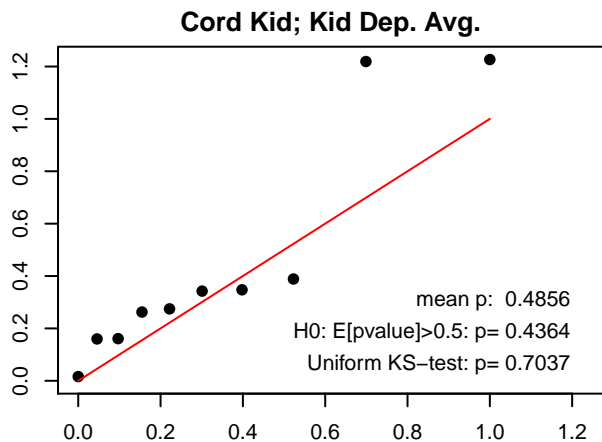
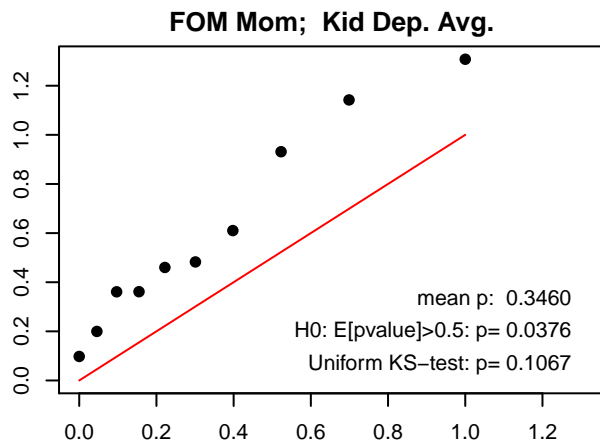
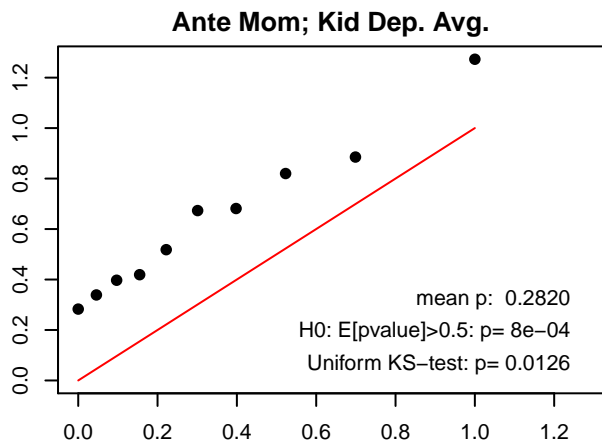
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QQ Plots: Glad-Delta Cortisol Probes



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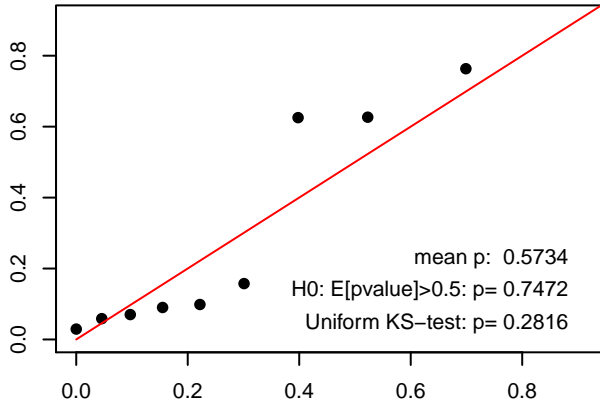
QQ Plots: Houtepen–Stress Reaction Probes



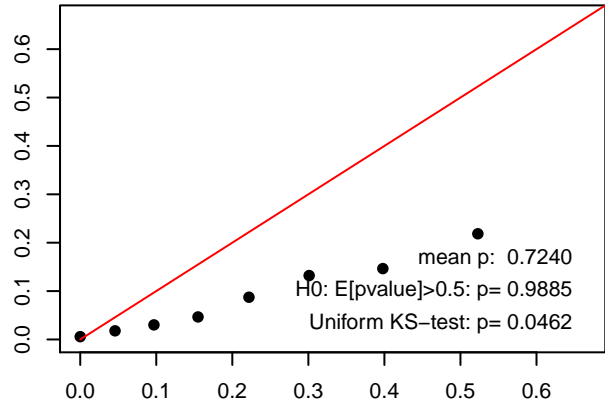
x-axis: $-\log_{10}(\text{expected p-value})$; y-axis: $-\log_{10}(\text{observed p-value})$
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QQ Plots: Houtepen–Stress Reaction Probes

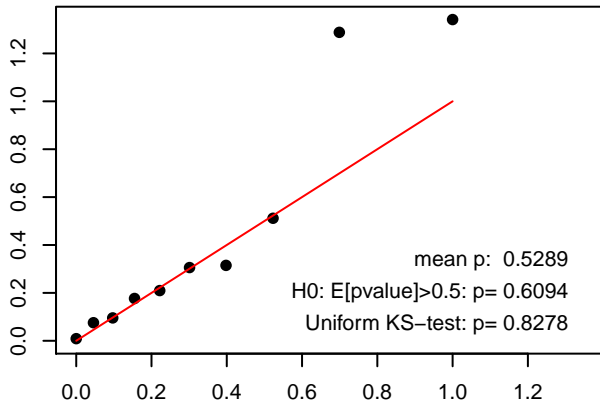
Ante Mom; Mom Dep. Avg.



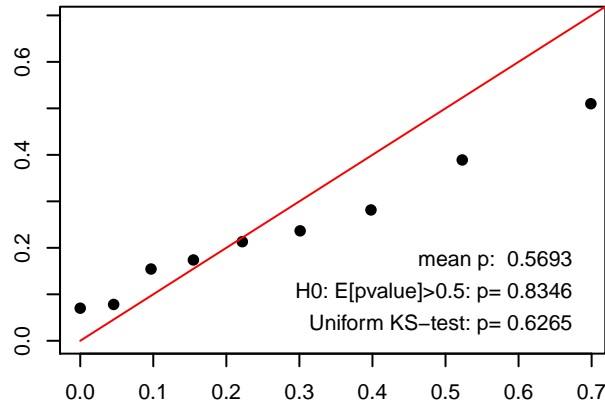
FOM Mom; Mom Dep. Avg.



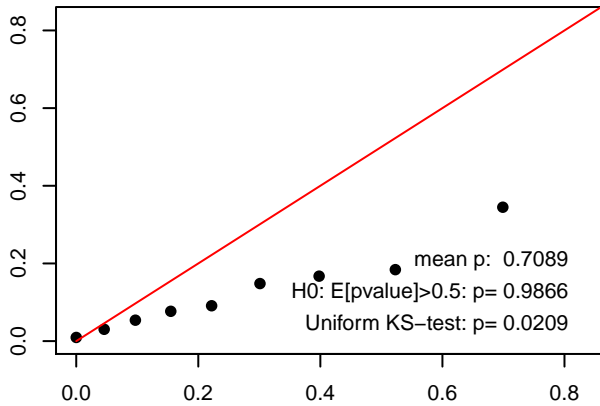
Cord Kid; Mom Dep. Avg.



F7 Kid; Mom Dep. Avg.

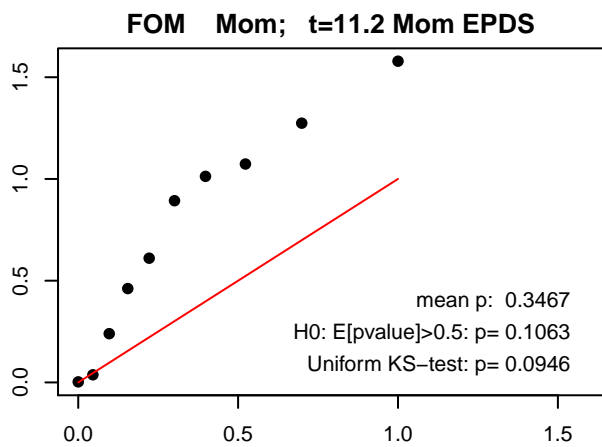
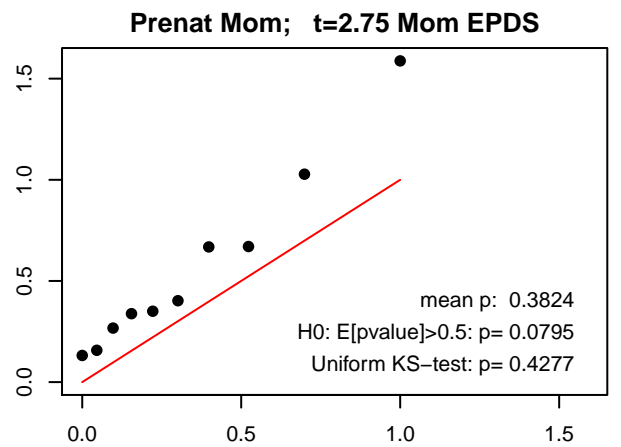
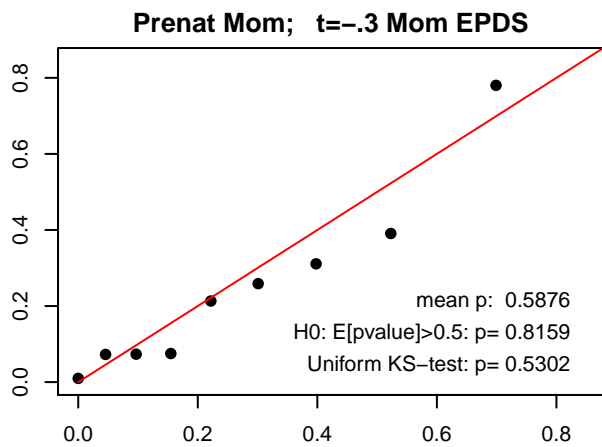
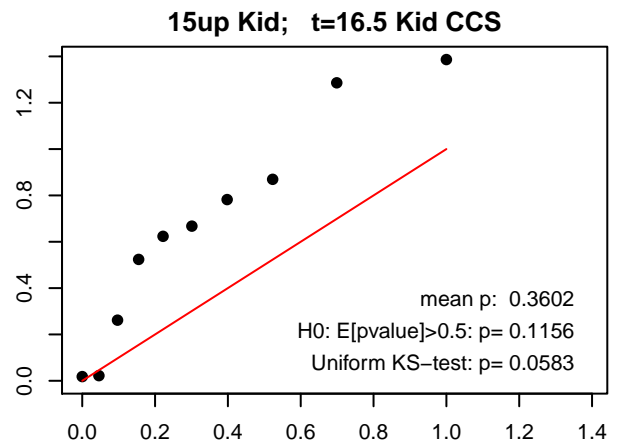
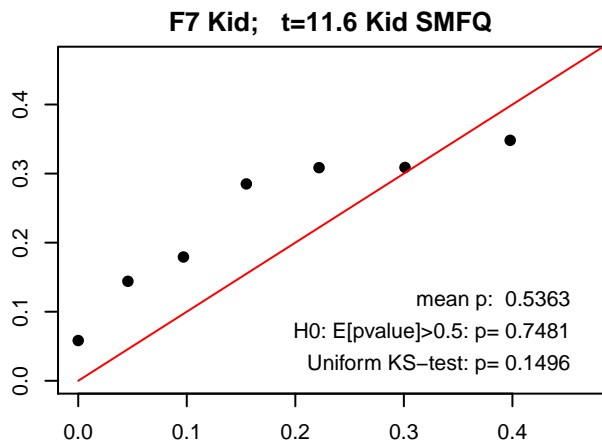
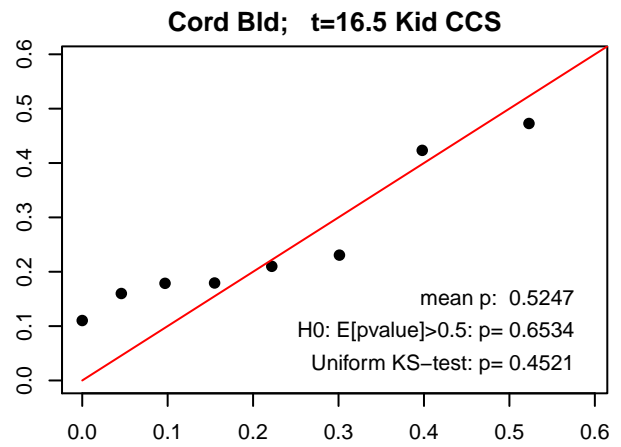
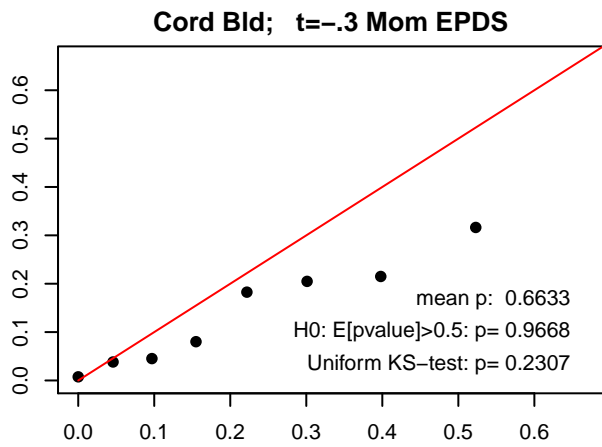


15up Kid; Mom Dep. Avg.



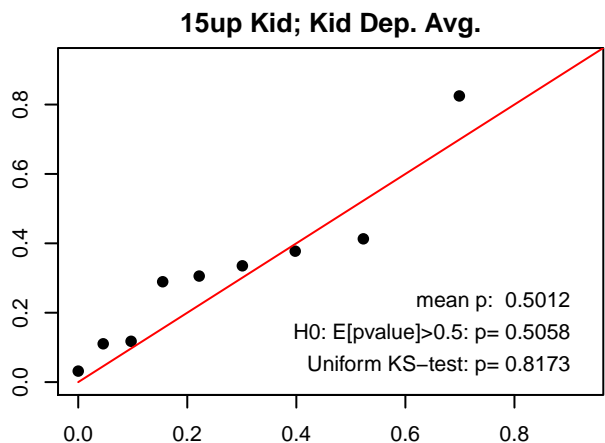
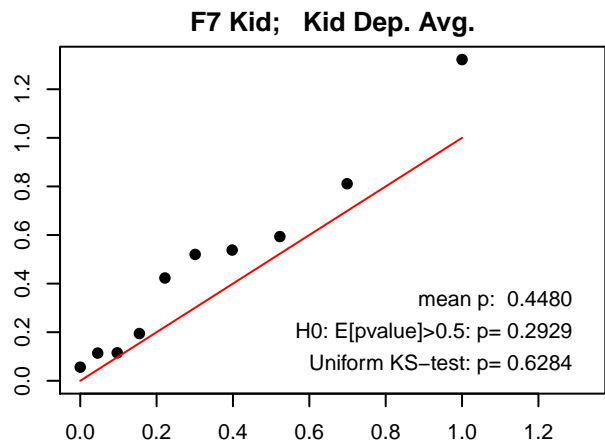
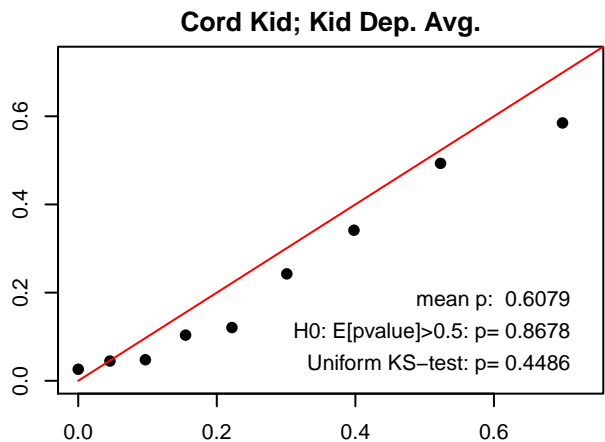
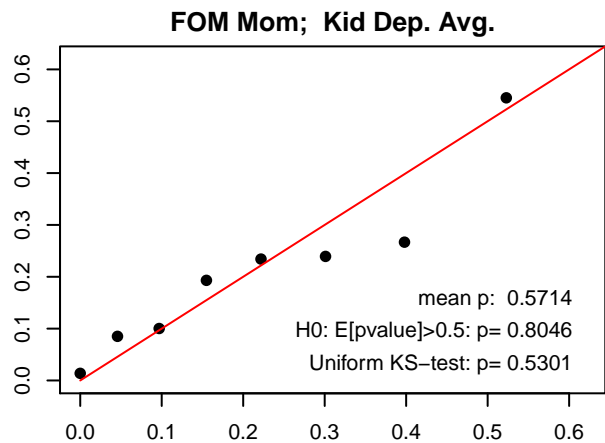
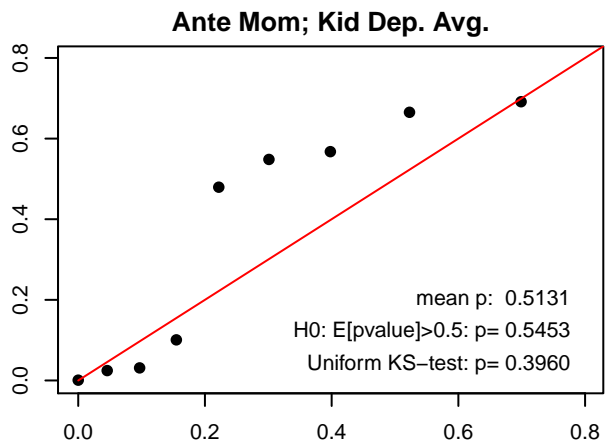
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QQ Plots: Houtepen–Stress Reaction Probes



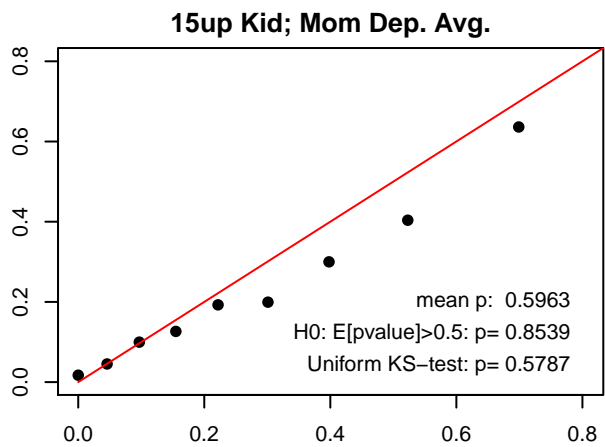
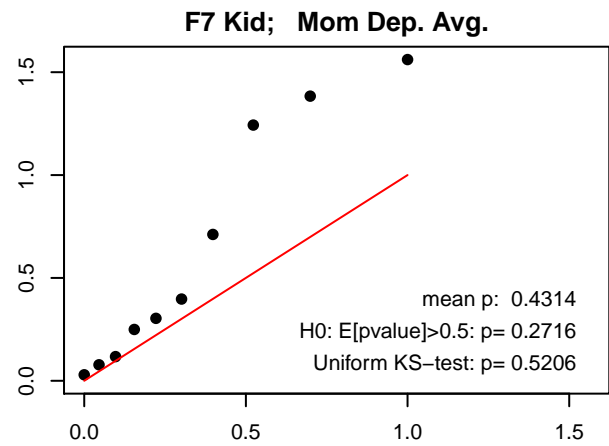
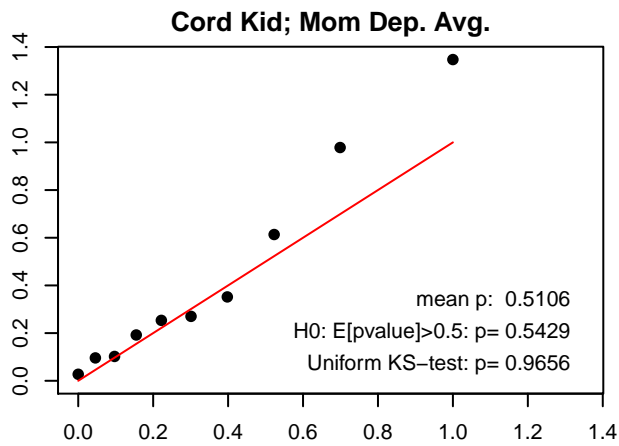
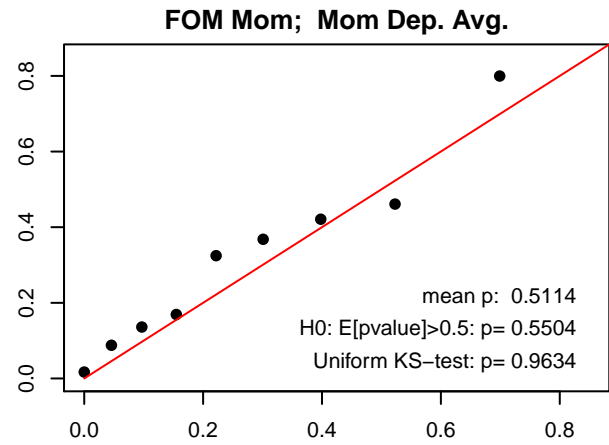
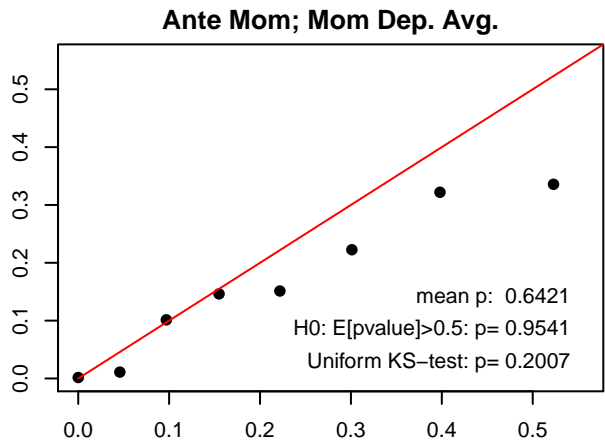
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QQ Plots: Bran-Postnatal Depression Probes



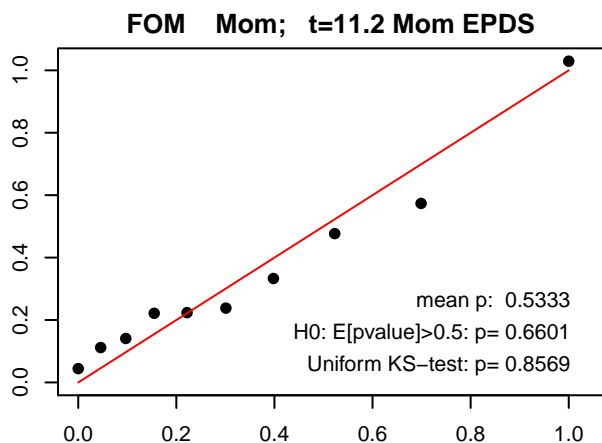
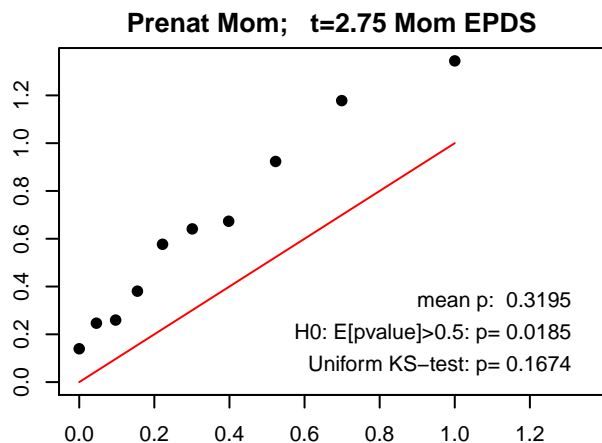
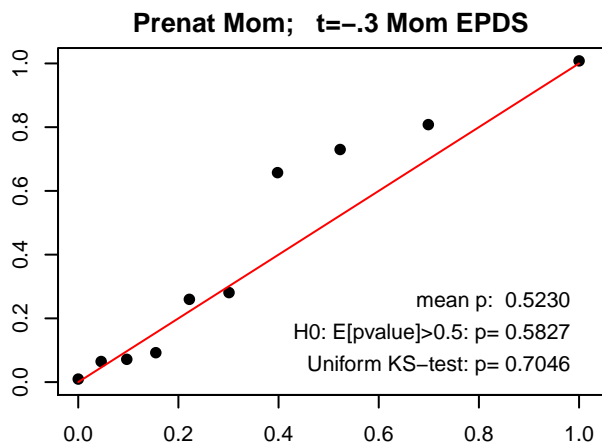
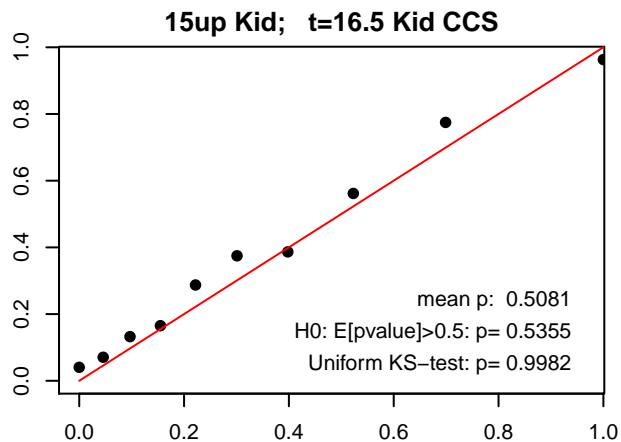
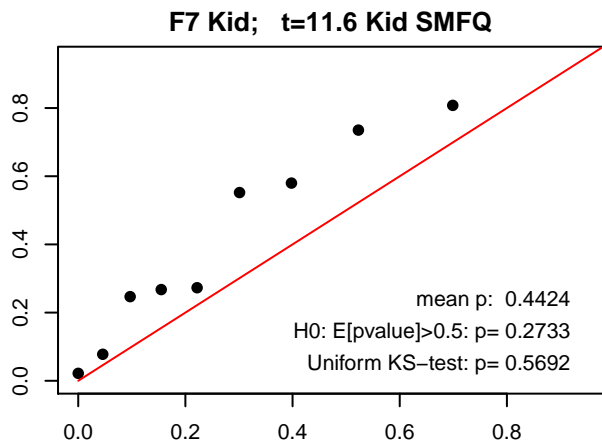
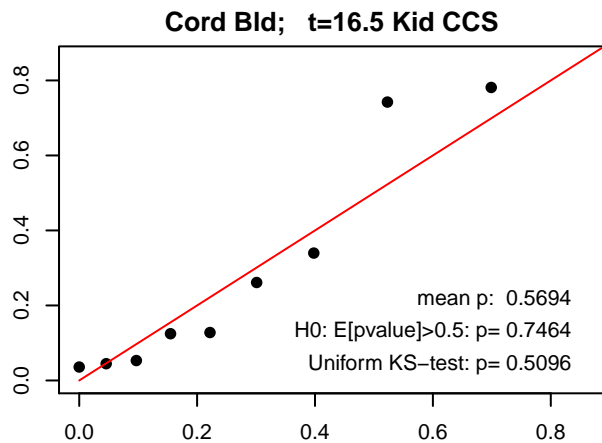
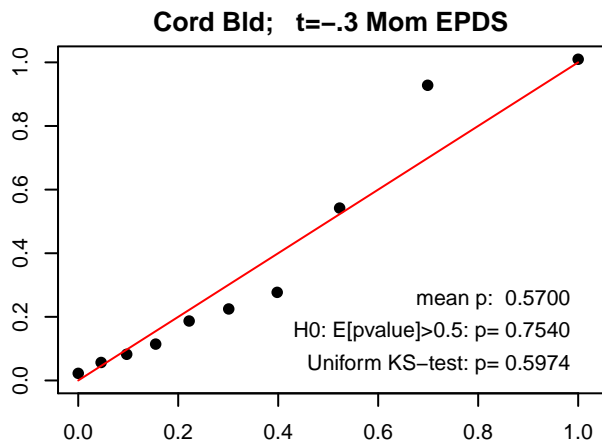
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QQ Plots: Bran-Postnatal Depression Probes



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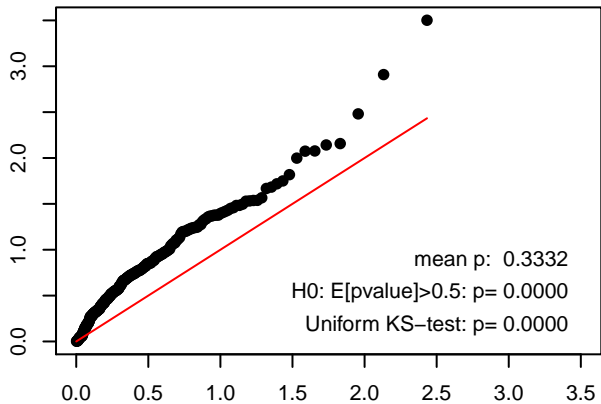
QQ Plots: Bran-Postnatal Depression Probes



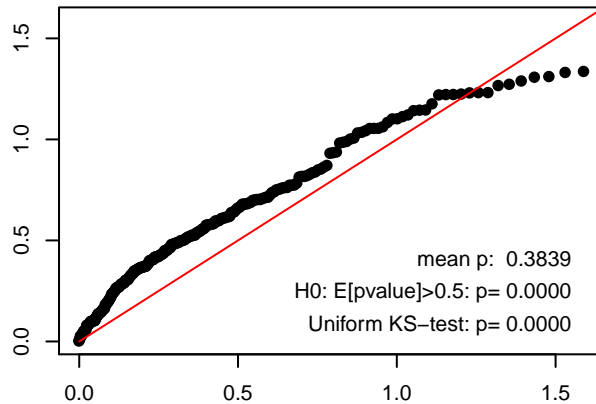
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QQ Plots: Lit. Motivated Probes

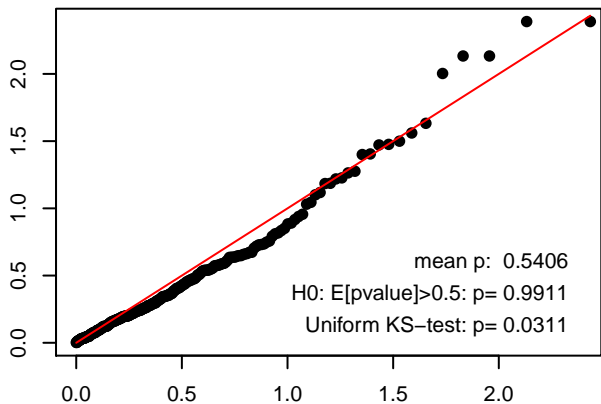
Ante Mom; Kid Dep. Avg.



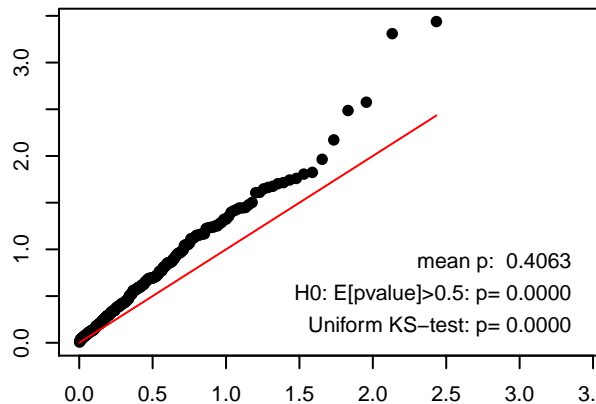
FOM Mom; Kid Dep. Avg.



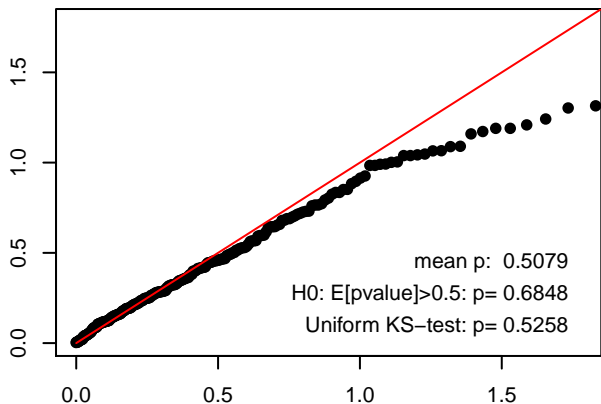
Cord Kid; Kid Dep. Avg.



F7 Kid; Kid Dep. Avg.



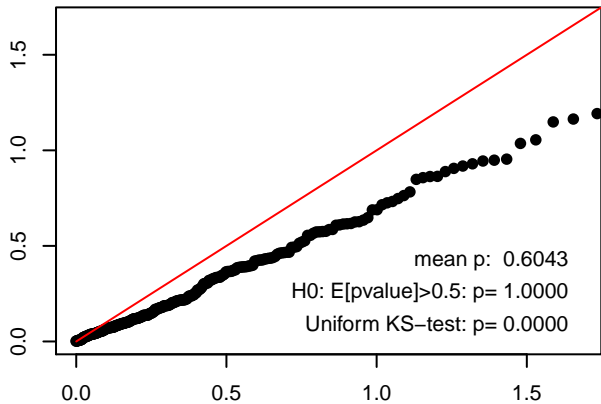
15up Kid; Kid Dep. Avg.



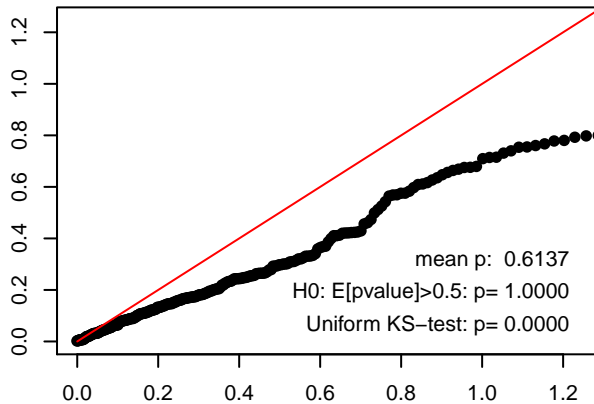
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QQ Plots: Lit. Motivated Probes

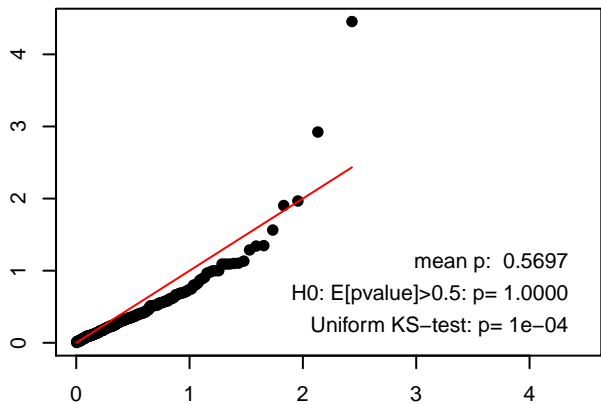
Ante Mom; Mom Dep. Avg.



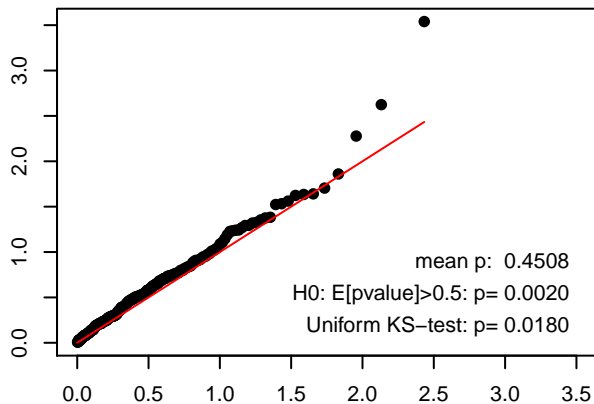
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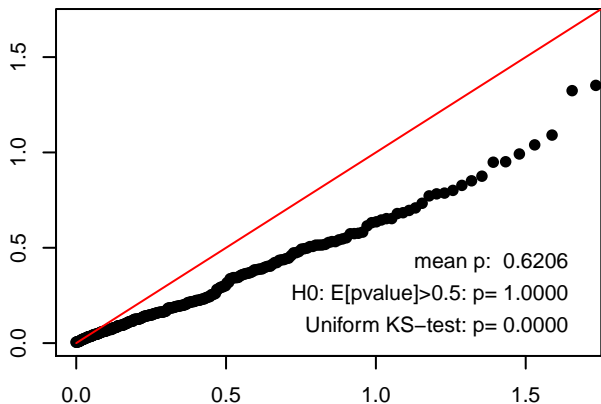
Cord Kid; Mom Dep. Avg.



F7 Kid; Mom Dep. Avg.

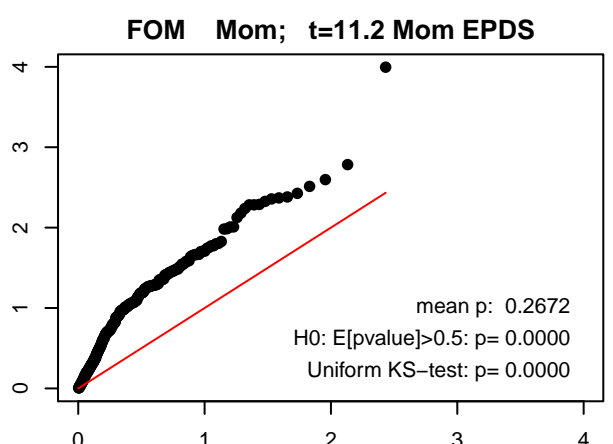
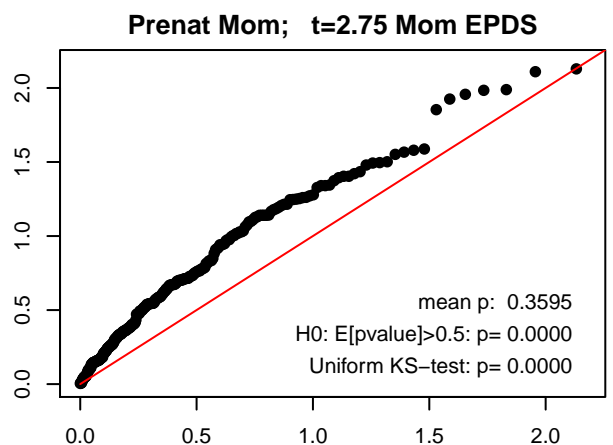
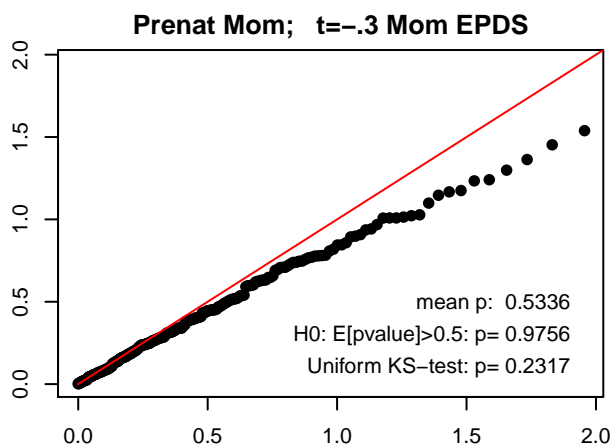
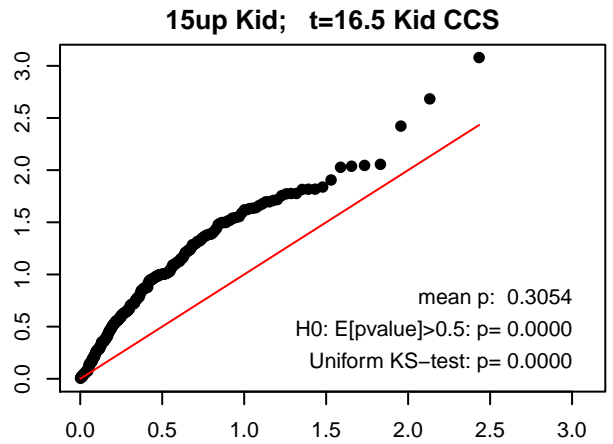
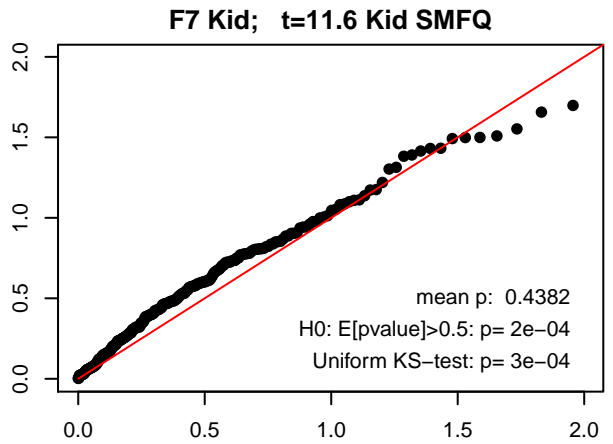
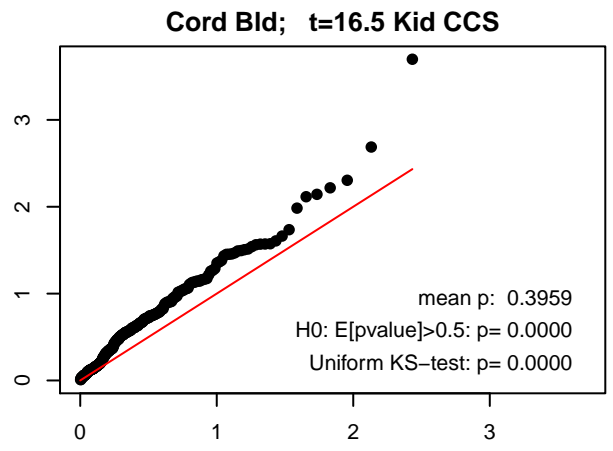
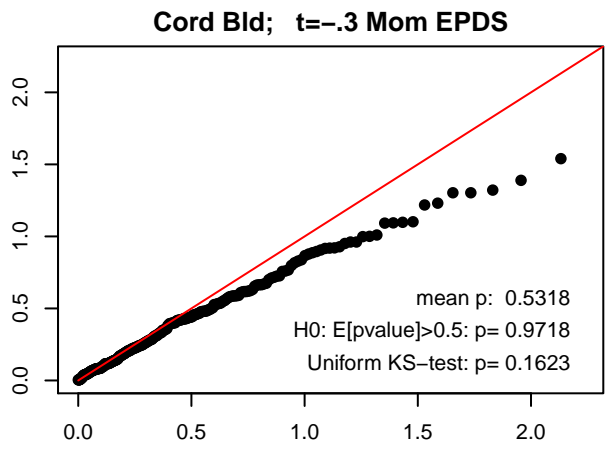


15up Kid; Mom Dep. Avg.



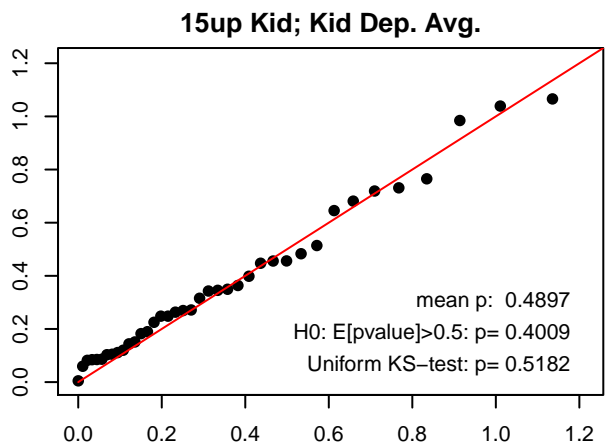
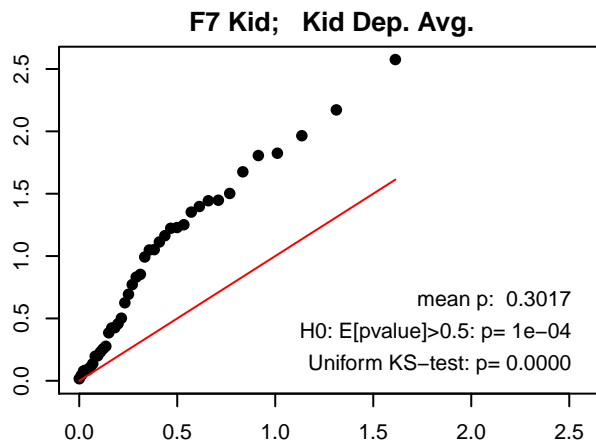
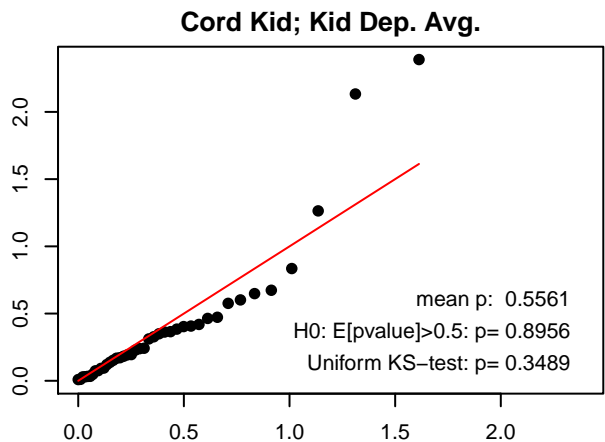
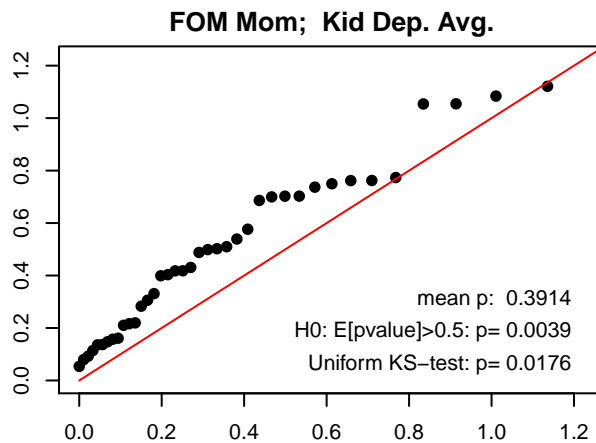
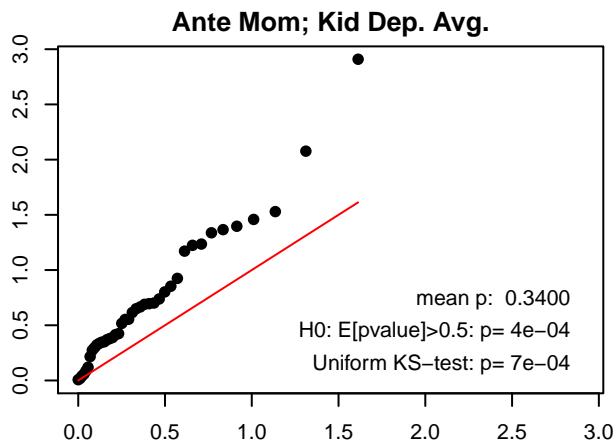
x-axis: $-\log_{10}(\text{expected p-value})$; y-axis: $-\log_{10}(\text{observed p-value})$
 Uniform KS-test: tests for uniformity of observed p-value distribution using Kolmogorov-Smirnov test.
 H0: E[pvalue]>0.5: applies one-sided t-test to the null that p-values are greater than 0.5.

QQ Plots: Lit. Motivated Probes



x-axis: $-\log_{10}(\text{expected } p\text{-value})$; y-axis: $-\log_{10}(\text{observed } p\text{-value})$
 Uniform KS-test: tests for uniformity of observed p-value distribution using Kolmogorov-Smirnov test.
 H0: E[pvalue]>0.5: applies one-sided t-test to the null that p-values are greater than 0.5.

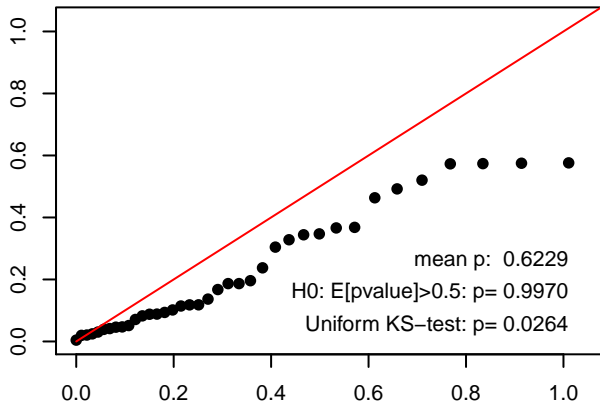
QQ Plots: NR3c1 Probes



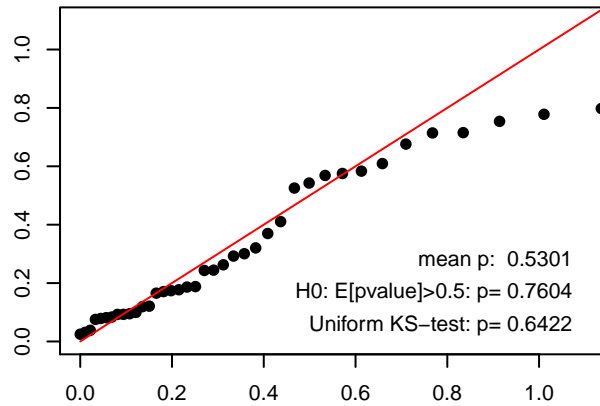
x-axis: $-\log_{10}(\text{expected p-value})$; y-axis: $-\log_{10}(\text{observed p-value})$
 Uniform KS-test: tests for uniformity of observed p-value distribution using Kolmogorov-Smirnov test.
 H0: E[pvalue]>0.5: applies one-sided t-test to the null that p-values are greater than 0.5.

QQ Plots: NR3c1 Probes

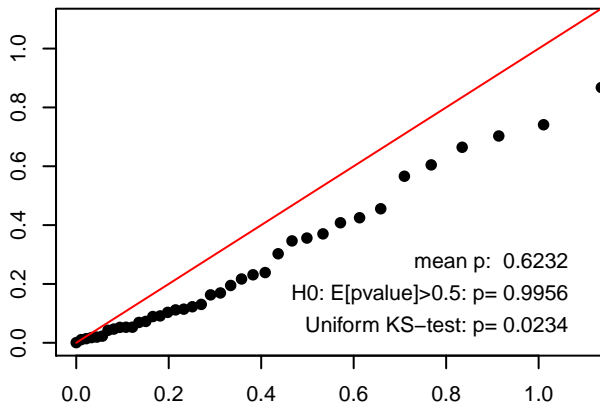
Ante Mom; Mom Dep. Avg.



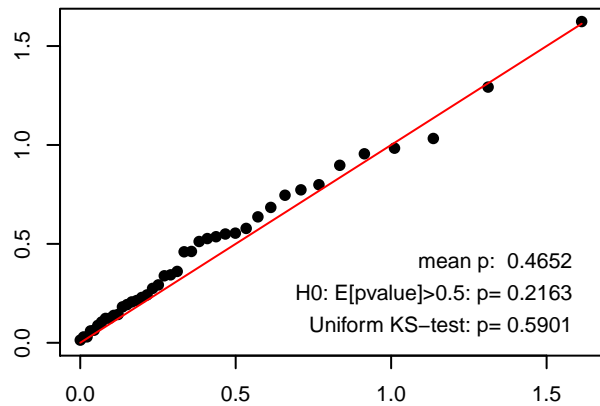
FOM Mom; Mom Dep. Avg.



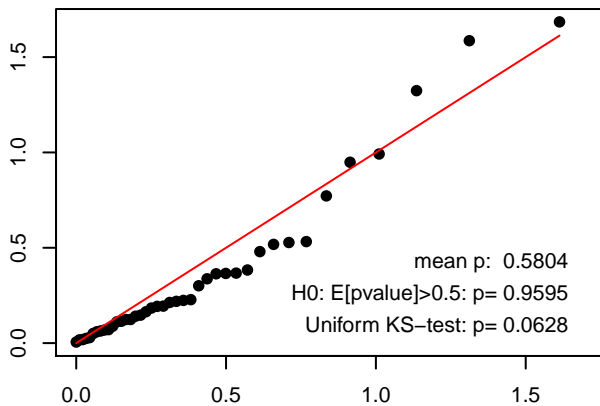
Cord Kid; Mom Dep. Avg.



F7 Kid; Mom Dep. Avg.

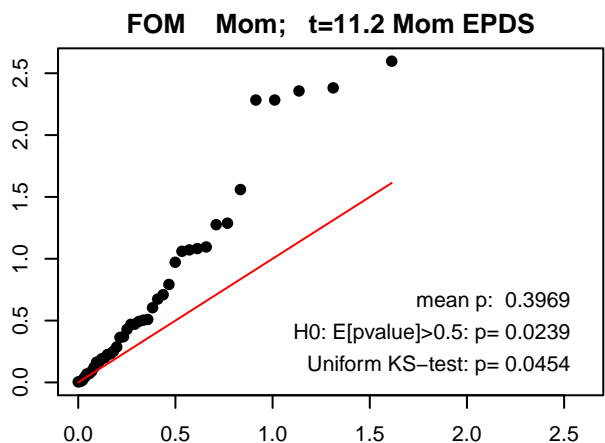
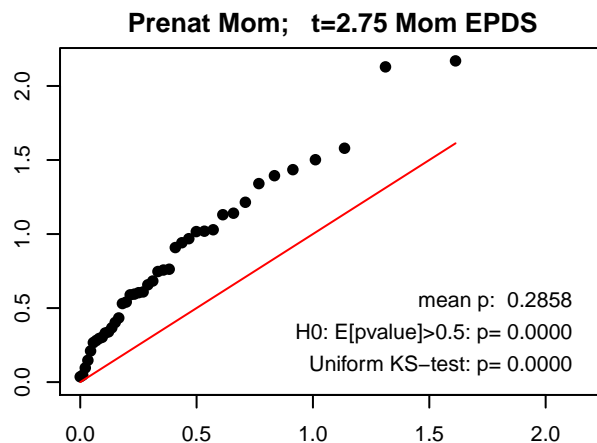
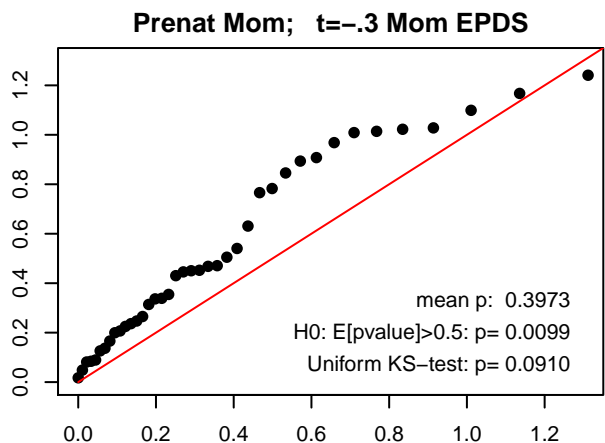
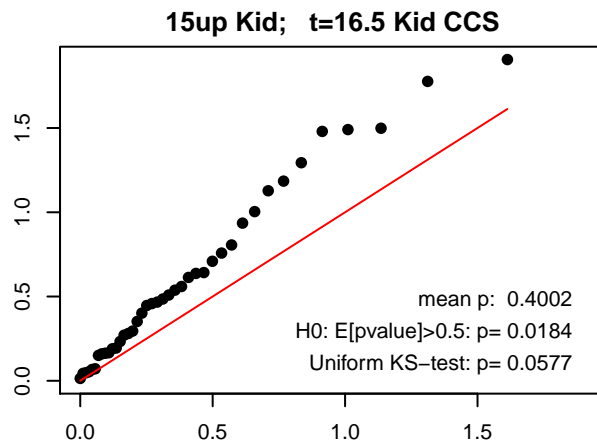
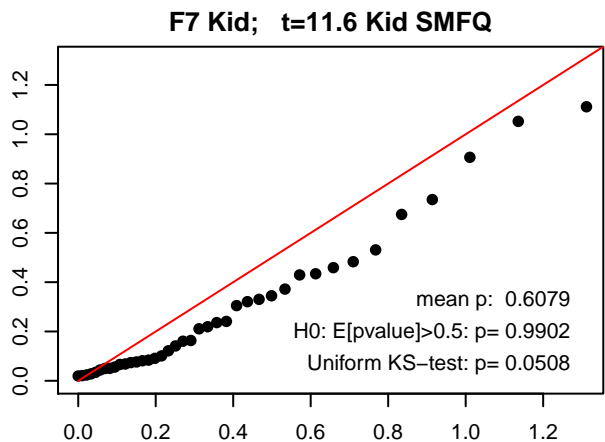
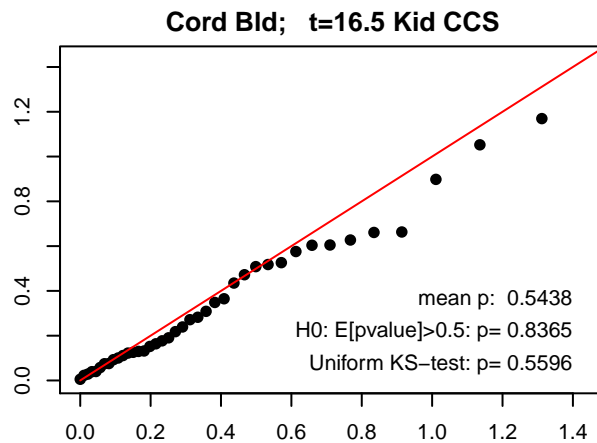
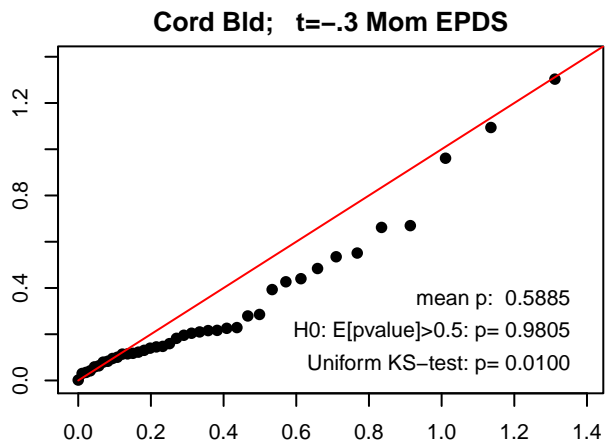


15up Kid; Mom Dep. Avg.



x-axis: $-\log_{10}(\text{expected p-value})$; y-axis: $-\log_{10}(\text{observed p-value})$
 Uniform KS-test: tests for uniformity of observed p-value distribution using Kolmogorov-Smirnov test.
 H0: E[pvalue]>0.5: applies one-sided t-test to the null that p-values are greater than 0.5.

QQ Plots: NR3c1 Probes



x-axis: $-\log_{10}(\text{expected p-value})$; y-axis: $-\log_{10}(\text{observed p-value})$
Uniform KS-test: tests for uniformity of observed p-value distribution using Kolmogorov-Smirnov test.
H0: E[pvalue]>0.5: applies one-sided t-test to the null that p-values are greater than 0.5.