

**Appendix 1: Simulated data from ex-Gaussian (10,2,5)**

7.320513	10.77892	12.66247	14.80155	19.62323
7.682358	10.81963	12.66346	15.16745	19.67403
7.943175	10.928	12.89001	15.2489	20.41566
8.410734	11.00682	13.02891	15.42959	20.54978
8.763813	11.0686	13.03188	15.59962	20.68714
8.897307	11.09093	13.0755	15.61826	21.3443
9.012962	11.19313	13.2747	15.86461	21.5189
9.081573	11.32054	13.35536	16.18985	21.6779
9.089867	11.56637	13.44562	16.50195	21.98603
9.248693	11.60094	13.47057	16.92947	22.44573
9.461362	11.70802	13.53161	17.2424	23.29426
9.734749	11.73127	13.65484	17.28401	24.01103
9.910837	11.73771	13.76778	17.35752	26.05911
10.26082	11.83094	13.89841	17.70572	26.06802
10.44308	11.89868	13.93583	18.12848	27.44567
10.53079	12.02192	14.10027	18.28239	31.72515
10.54709	12.03848	14.27582	18.74268	31.9653
10.70932	12.27987	14.41111	18.82539	32.88067
10.72175	12.44038	14.65361	19.29076	34.69273
10.74654	12.4649	14.674	19.52527	35.92378

**Appendix 2: SAS Code for Box-Cox Transformation**

```

/* data entry step */

data exgauss;
input y @@;
datalines;
7.320512959 7.682357787 7.94317508 8.41073393 8.763812698
8.897307347 9.012962076 9.081572559 9.089866975 9.248692656
9.461362445 9.734748626 9.910837237 10.26081667 10.44308261
10.53078925 10.54708712 10.70931577 10.72175008 10.74654487
10.77891849 10.81963062 10.92799959 11.00681543 11.06859594
11.09092509 11.19312526 11.3205358 11.56636891 11.60093853
11.70801564 11.73126699 11.73770999 11.83094198 11.89868016
12.02191788 12.03847837 12.27987236 12.44037757 12.464899
12.66247168 12.66346481 12.89001118 13.02890989 13.03188066
13.0754981 13.27470156 13.35536191 13.44562317 13.47057383
13.53160551 13.65484362 13.76777744 13.89840783 13.9358281
14.10026604 14.27581726 14.41110619 14.65360921 14.67400029
14.80154825 15.1674475 15.24889965 15.42958947 15.59962124
15.61826302 15.86460957 16.18984529 16.50195202 16.92947431
17.24240075 17.28401156 17.35752387 17.70571722 18.12847532
18.28239245 18.74267966 18.82539369 19.29075742 19.52527166
19.62322993 19.67402743 20.41566003 20.54977655 20.68713776
21.34429578 21.51889836 21.67790301 21.9860314 22.44573172
23.29425731 24.01102625 26.059114 26.06802137 27.4456749
31.72515393 31.96530324 32.88066716 34.6927323 35.92378141
;

/* create values from standard normal distribution */

```

```
data percentages;
do i = 1 to 100;
    pct = i/(100+1);
    z = probit(pct);
    output;
end;
keep pct z;
run;

/* sort data in ascending order and merge data sets */

proc sort data=exgauss out=exgauss;
by y;
run;
data boxcox;
merge exgauss percentages;
run;

/* Box-Cox transformations for lambda=-2,-1.5,...,2 */

proc transreg data=boxcox;
model boxcox(y / lambda=-2 to 2 by 0.5) = identity(z);
run;
```

### Appendix 3: SAS Code for Method of Moments Estimates of Ex-Gaussian Distribution

```
/* Summary Statistics */

proc means mean std skew data=simdata;
var y;
output out=sumstats mean=m std=s skew=sk;
run;

/* Compute Method of Moments Estimates */

data exgauss;
set sumstats;
mu = m - s*(sk/2)**(1/3);
sigma = s*sqrt(1-(sk/2)**(2/3));
sigma2 = sigma**2;
lambda = s*(sk/2)**(1/3);
run;
proc print data=exgauss;
var mu sigma sigma2 lambda;
run;
```