```
REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT PAH
  /METHOD=ENTER NRCAM MAP2 RUNX1T1 ENO2 CRISP1 NR4A3 RLN2 LDHA GSTM3 LAMC2 COL6A1 SLC11A2 NTRK3
TMED10 HLA.G APP NRIP1 ESR2 SEC23A PPP1CC MYCN TMED2 ATF2 TMF1 CA6 GOLGA4 HSP90AB1 CASP8 ATP5F1
POLR2A IFIT2 KRT1 PTGS1 TBR1 DECR1 MC2R GLUL KCNJ8 S100A5 MT2A ARSE FKBP8 GPKOW TNFRSF9 CX3CL1
FES CDA SELPLG PDE2A IFI27 SLC8A1 SCN5A ZP2 GATA1 NRGN GIP PSG1 TLE1 GP1BA PRM2 EPHB1 LGALS3 CD
  /RESIDUALS HISTOGRAM(ZRESID) NORMPROB(ZRESID).
```

Regression

Notes

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	N of Rows in Working Data File	146
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Notes

Syntax	REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PAH /METHOD=ENTER NRCAM MAP2 RUNX1T1 ENO2 CRISP1 NR4A3 RLN2 LDHA GSTM3 LAMC2 COL6A1 SLC11A2 NTRK3 PGK1 FGA STAT5B TMEM41B PIGC PEX5 UGP2 RUNX1 PIGK MTM1 ADRA2A NRAS BCR MAP7 MAPK6 NEDD4 TXK ETV3 KPNA4 DDX18 RAD50 DDX10 BCLAF1 FEZ1 LAMP1 GCLM JAK1 OTUD4 FXR1 TMED10 HLA.G APP NRIP1 ESR2 SEC23A PPP1CC MYCN TMED2 ATF2 TMF1 CA6 GOLGA4 HSP90AB1 CASP8 ATP5F1 SCN1B CYCS CD34 ABCE1 AZGP1 RPS5 KRT18 PEA15 AES ACSM3 RQCD1 CTSE EIF4A1 HSPA5 CD40 ANKS1A FLNC PROL1 HAAO DNM1 HOXA1 PPP1R10 PF4V1 SDS NUMB SERPINB6 COL17A1 POLR2A IFIT2 KRT1 PTGS1 TBR1 DECR1 MC2R GLUL KCNJ8 S100A5 MT2A ARSE FKBP8 GPKOW TNFRSF9 CX3CL1 GABRA1 STARD8 SLC19A1 FABP4 GYPB ANKRD1 AAMP SULT1C2 GUCA2B GRIN2C GMPR SEPHS2 CCL21 PTMS LMNB1 CLTCL1 TRPV6 SLC18A3 MYL9 TNNI3 CDX2 PLA2G5 IFNA16 ST6GALNAC2 FES CDA SELPLG PDE2A IFI27 SLC8A1 SCN5A ZP2 GATA1 NRGN GIP PSG1 TLE1 GP1BA PRM2 EPHB1 LGALS3 CD72 KCNJ3 SLC5A1 HTR1D MMP9 HSD3B2 CYP1B1 IFIT3 IQGAP2 ACOX2 BATF

Notes

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	Additional Memory Required for Residual Plots	0 bytes

[DataSet7]

Variables Entered/Removed[a]

Model	Variables Entered	Variables Removed	Method
1	NOTCH3, SECTM1, SEC23A, MMP9, KRT1, KLRD1, AZGP1, CYP1B1, IL13RA2, CX3CL1, FGA, FABP4, PTGS1, CASP8, ESR2, PF4V1, MT2A, CLEC3B, SLC18A3, NR4A3, CDA, IFIT3, GYPB, GSTM3, TBR1, ARSE, MC2R, HLA. G, HAAO, FKBP8, LPL, SDS, GATA1, NRCAM, DNM1, TXK, CD72, PSG1, SCN1B, CLTCL1, GRIN2C, SCN5A, SLC8A1, ATF2, KRT18, GABRA1, COL17A1, S100A5, [b] ...	.	Enter

a. Dependent Variable: PAH

b. Tolerance = .000 limits reached.

Model Summary[b]

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.658[a]	.433	.143	.464

a. Predictors: (Constant), NOTCH3, SECTM1, SEC23A, MMP9, KRT1, KLRD1, AZGP1, CYP1B1, IL13RA2, CX3CL1, FGA, FABP4, PTGS1, CASP8, ESR2, PF4V1, MT2A, CLEC3B, SLC18A3, NR4A3, CDA, IFIT3, GYPB, GSTM3, TBR1, ARSE, MC2R, HLA.G, HAAO, FKBP8, LPL, SDS, GATA1, NRCAM, DNM1, TXK, CD72, PSG1, SCN1B, CLTCL1, GRIN2C, SCN5A, SLC8A1, ATF2, KRT18, GABRA1, COL17A1, S100A5, PRM2

b. Dependent Variable: PAH

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	15.786	49	.322	1.494	.048[b]
	Residual	20.707	96	.216		
	Total	36.493	145			

a. Dependent Variable: PAH

b. Predictors: (Constant), NOTCH3, SECTM1, SEC23A, MMP9, KRT1, KLRD1, AZGP1, CYP1B1, IL13RA2, CX3CL1, FGA, FABP4, PTGS1, CASP8, ESR2, PF4V1, MT2A, CLEC3B, SLC18A3, NR4A3, CDA, IFIT3, GYPB, GSTM3, TBR1, ARSE, MC2R, HLA.G, HAAO, FKBP8, LPL, SDS, GATA1, NRCAM, DNM1, TXK, CD72, PSG1, SCN1B, CLTCL1, GRIN2C, SCN5A, SLC8A1, ATF2, KRT18, GABRA1, COL17A1, S100A5, PRM2

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.409	.413		.992	.324
	NRCAM	-.044	.014	-7.520	-3.033	.003
	NR4A3	-.118	.034	-11.652	-3.477	.001
	GSTM3	.000	.002	.191	.127	.899
	FGA	-.001	.004	-.300	-.156	.876
	TXK	.012	.011	1.918	1.022	.309
	HLA.G	.016	.005	10.582	3.294	.001
	ESR2	2.131E-005	.019	.004	.001	.999
	SEC23A	-.001	.005	-.403	-.198	.843
	ATF2	.018	.009	5.820	2.053	.043
	CASP8	-.019	.019	-2.483	-.980	.330
	SCN1B	-.016	.007	-3.990	-2.228	.028
	AZGP1	-.004	.003	-1.155	-1.404	.164
	KRT18	-.051	.026	-7.529	-1.963	.053
	HAAO	3.719E-005	.018	.005	.002	.998
	DNM1	-.006	.013	-1.237	-.444	.658
	PF4V1	.000	.010	-.072	-.038	.970
	SDS	-.021	.016	-3.133	-1.323	.189
	COL17A1	.017	.048	1.919	.360	.720
	KRT1	.011	.008	3.304	1.418	.159
	PTGS1	.002	.001	1.338	1.510	.134
	TBR1	-.081	.028	-6.178	-2.890	.005
	MC2R	-.027	.017	-3.336	-1.586	.116
	S100A5	.139	.056	13.437	2.486	.015
	MT2A	5.010E-005	.000	1.712	.443	.659
	ARSE	-.013	.011	-1.802	-1.164	.247
	FKBP8	-.003	.002	-2.748	-1.481	.142
	CX3CL1	.000	.000	2.792	1.641	.104
	GABRA1	-.007	.053	-.591	-.132	.895
	FABP4	.000	.001	.752	.727	.469
	GYPB	-.033	.015	-3.637	-2.212	.029
	GRIN2C	.069	.020	6.644	3.448	.001
	CLTCL1	.055	.035	7.541	1.573	.119
	SLC18A3	-.031	.027	-3.127	-1.124	.264
	CDA	.006	.003	4.285	1.679	.096
	SLC8A1	.026	.040	2.625	.649	.518
	SCN5A	-.076	.028	-5.950	-2.719	.008

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
	GATA1	.025	.010	3.673	2.449	.016
	PSG1	-.005	.037	-.359	-.124	.902
	PRM2	.170	.073	12.864	2.348	.021
	CD72	-.010	.008	-2.945	-1.240	.218
	MMP9	-.001	.000	-2.020	-1.211	.229
	CYP1B1	.000	.001	-.589	-.557	.579
	IFIT3	-.007	.004	-5.402	-1.784	.078
	KLRD1	-.001	.001	-.642	-.788	.433
	LPL	.000	.001	.571	.373	.710
	CLEC3B	.000	.000	-.649	-.455	.650
	SECTM1	7.646E-005	.001	.097	.087	.931
	IL13RA2	.005	.004	.872	1.261	.210
	NOTCH3	-.002	.006	-2.674	-.353	.725

a. Dependent Variable: PAH

Excluded Variables[a]

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
						Tolerance
1	MAP2	-22.884[b]	-2.233	.028	-.223	5.404E-005
	RUNX1T1	-6.057[b]	-.607	.545	-.062	5.973E-005
	ENO2	10.102[b]	1.449	.151	.147	.000
	CRISP1	-3.072[b]	-.319	.751	-.033	6.428E-005
	RLN2	-2.081[b]	-.329	.743	-.034	.000
	LDHA	13.330[b]	1.319	.190	.134	5.744E-005
	LAMC2	-6.337[b]	-.505	.614	-.052	3.789E-005
	COL6A1	8.832[b]	.620	.537	.063	2.927E-005
	SLC11A2	-17.429[b]	-.813	.418	-.083	1.289E-005
	NTRK3	-4.772[b]	-.405	.687	-.041	4.285E-005
	PGK1	-29.536[b]	-.899	.371	-.092	5.481E-006
	STAT5B	4.643[b]	.224	.823	.023	1.387E-005
	TMEM41B	9.313[b]	.498	.619	.051	1.705E-005
	PIGC	23.179[b]	1.455	.149	.148	2.301E-005
	PEX5	-16.889[b]	-.902	.369	-.092	1.690E-005
	UGP2	21.924[b]	.931	.354	.095	1.068E-005
	RUNX1	19.001[b]	.918	.361	.094	1.382E-005
	PIGK	18.029[b]	1.134	.260	.116	2.331E-005

Excluded Variables[a]

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
						Tolerance
	MTM1	.864[b]	.032	.974	.003	8.228E-006
	ADRA2A	-13.612[b]	-.641	.523	-.066	1.317E-005
	NRAS	-14.535[b]	-.545	.587	-.056	8.379E-006
	BCR	-4.361[b]	-.336	.738	-.034	3.535E-005
	MAP7	-46.225[b]	-2.163	.033	-.217	1.247E-005
	MAPK6	-25.744[b]	-1.320	.190	-.134	1.541E-005
	NEDD4	-3.437[b]	-.173	.863	-.018	1.514E-005
	ETV3	-26.001[b]	-2.919	.004	-.287	6.907E-005
	KPNA4	-30.311[b]	-.911	.365	-.093	5.343E-006
	DDX18	-19.434[b]	-.747	.457	-.076	8.779E-006
	RAD50	26.072[b]	1.518	.132	.154	1.976E-005
	DDX10	-8.309[b]	-.433	.666	-.044	1.622E-005
	BCLAF1	42.472[b]	1.778	.079	.179	1.012E-005
	FEZ1	16.177[b]	1.291	.200	.131	3.736E-005
	LAMP1	12.145[b]	.406	.686	.042	6.653E-006
	GCLM	4.109[b]	.335	.739	.034	3.953E-005
	JAK1	21.340[b]	1.860	.066	.187	4.378E-005
	OTUD4	-1.728[b]	-.187	.852	-.019	7.012E-005
	FXR1	38.895[b]	1.884	.063	.190	1.350E-005
	TMED10	34.633[b]	2.960	.004	.291	3.995E-005
	APP	-1.192[b]	-.079	.937	-.008	2.622E-005
	NRIP1	-11.112[b]	-.298	.766	-.031	4.293E-006
	PPP1CC	-14.424[b]	-.384	.702	-.039	4.222E-006
	MYCN	-10.702[b]	-1.261	.210	-.128	8.161E-005
	TMED2	-17.295[b]	-.859	.392	-.088	1.464E-005
	TMF1	25.756[b]	1.393	.167	.141	1.712E-005
	CA6	-30.381[b]	-2.757	.007	-.272	4.553E-005
	GOLGA4	-1.349[b]	-.079	.937	-.008	2.054E-005
	HSP90AB1	6.353[b]	.485	.629	.050	3.466E-005
	ATP5F1	23.698[b]	.699	.486	.072	5.167E-006
	CYCS	5.781[b]	.658	.512	.067	7.715E-005
	CD34	1.476[b]	.163	.871	.017	7.305E-005
	ABCE1	-7.232[b]	-.410	.683	-.042	1.917E-005
	RPS5	7.617[b]	.621	.536	.064	3.955E-005
	PEA15	-11.518[b]	-.492	.624	-.050	1.089E-005
	AES	24.116[b]	.814	.417	.083	6.764E-006
	ACSM3	39.231[b]	2.353	.021	.235	2.030E-005
	RQCD1	1.770[b]	.079	.937	.008	1.197E-005

Excluded Variables[a]

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics: Tolerance
CTSE	-17.440[b]	-1.204	.232	-.123	2.803E-005
EIF4A1	-.188[b]	-.009	.993	-.001	1.396E-005
HSPA5	6.600[b]	.820	.414	.084	9.148E-005
CD40	37.247[b]	1.991	.049	.200	1.638E-005
ANKS1A	-17.760[b]	-.827	.410	-.085	1.287E-005
FLNC	-31.814[b]	-1.922	.058	-.193	2.099E-005
PROL1	12.527[b]	1.335	.185	.136	6.657E-005
HOXA1	-5.047[b]	-.645	.521	-.066	9.698E-005
PPP1R10	.975[b]	.092	.927	.009	5.306E-005
NUMB	2.053[b]	.036	.972	.004	1.799E-006
SERPINB6	-7.147[b]	-.530	.598	-.054	3.271E-005
POLR2A	-32.036[b]	-.899	.371	-.092	4.663E-006
IFIT2	2.860[b]	.263	.793	.027	5.031E-005
DECR1	4.351[b]	.297	.767	.030	2.776E-005
GLUL	-.119[b]	-.016	.988	-.002	.000
KCNJ8	-8.595[b]	-.407	.685	-.042	1.340E-005
GPKOW	20.168[b]	1.505	.136	.153	3.248E-005
TNFRSF9	-11.562[b]	-1.455	.149	-.148	9.251E-005
STARD8	-13.345[b]	-1.405	.163	-.143	6.488E-005
SLC19A1	19.139[b]	1.974	.051	.199	6.107E-005
ANKRD1	-10.803[b]	-.910	.365	-.093	4.205E-005
AAMP	-8.942[b]	-.713	.478	-.073	3.777E-005
SULT1C2	.378[b]	.057	.954	.006	.000
GUCA2B	1.905[b]	.217	.829	.022	7.721E-005
GMPR	-2.156[b]	-.210	.834	-.022	5.676E-005
SEPHS2	39.382[b]	2.597	.011	.257	2.426E-005
CCL21	1.989[b]	.163	.871	.017	4.013E-005
PTMS	5.869[b]	.397	.692	.041	2.734E-005
LMNB1	15.033[b]	.807	.421	.083	1.711E-005
TRPV6	-11.757[b]	-1.871	.064	-.189	.000
MYL9	-3.958[b]	-.534	.595	-.055	.000
TNNI3	-13.090[b]	-1.375	.173	-.140	6.458E-005
CDX2	-2.559[b]	-.343	.733	-.035	.000
PLA2G5	-3.423[b]	-.240	.811	-.025	2.923E-005
IFNA16	-24.553[b]	-1.667	.099	-.169	2.675E-005
ST6GALNAC2	10.954[b]	.763	.447	.078	2.882E-005
FES	-19.886[b]	-.945	.347	-.096	1.336E-005
SELPLG	40.576[b]	3.334	.001	.324	3.609E-005

Excluded Variables[a]

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics: Tolerance
PDE2A	-15.664[b]	-1.243	.217	-.127	3.702E-005
IFI27	-18.459[b]	-1.471	.145	-.149	3.709E-005
ZP2	-16.921[b]	-1.581	.117	-.160	5.083E-005
NRGN	15.962[b]	1.132	.260	.115	2.966E-005
GIP	-10.628[b]	-1.198	.234	-.122	7.478E-005
TLE1	-20.293[b]	-1.225	.224	-.125	2.142E-005
GP1BA	22.390[b]	1.888	.062	.190	4.094E-005
EPHB1	-11.917[b]	-1.339	.184	-.136	7.400E-005
LGALS3	-3.193[b]	-.319	.750	-.033	5.950E-005
KCNJ3	-5.447[b]	-.740	.461	-.076	.000
SLC5A1	-.474[b]	-.045	.964	-.005	5.476E-005
HTR1D	-9.627[b]	-1.229	.222	-.125	9.575E-005
HSD3B2	.614[b]	.090	.929	.009	.000
IQGAP2	10.165[b]	.979	.330	.100	5.488E-005
ACOX2	12.776[b]	1.051	.296	.107	3.998E-005
BATF	-5.109[b]	-.320	.750	-.033	2.336E-005
CDX1	-5.529[b]	-.551	.583	-.056	5.902E-005
SFTPC	-.244[b]	-.017	.986	-.002	2.890E-005
C6orf10	-7.624[b]	-.541	.590	-.055	2.998E-005
XCL1	7.114[b]	1.312	.193	.133	.000
TMOD1	-8.561[b]	-.264	.792	-.027	5.690E-006
IGFBP2	2.647[b]	.226	.822	.023	4.332E-005

a. Dependent Variable: PAH

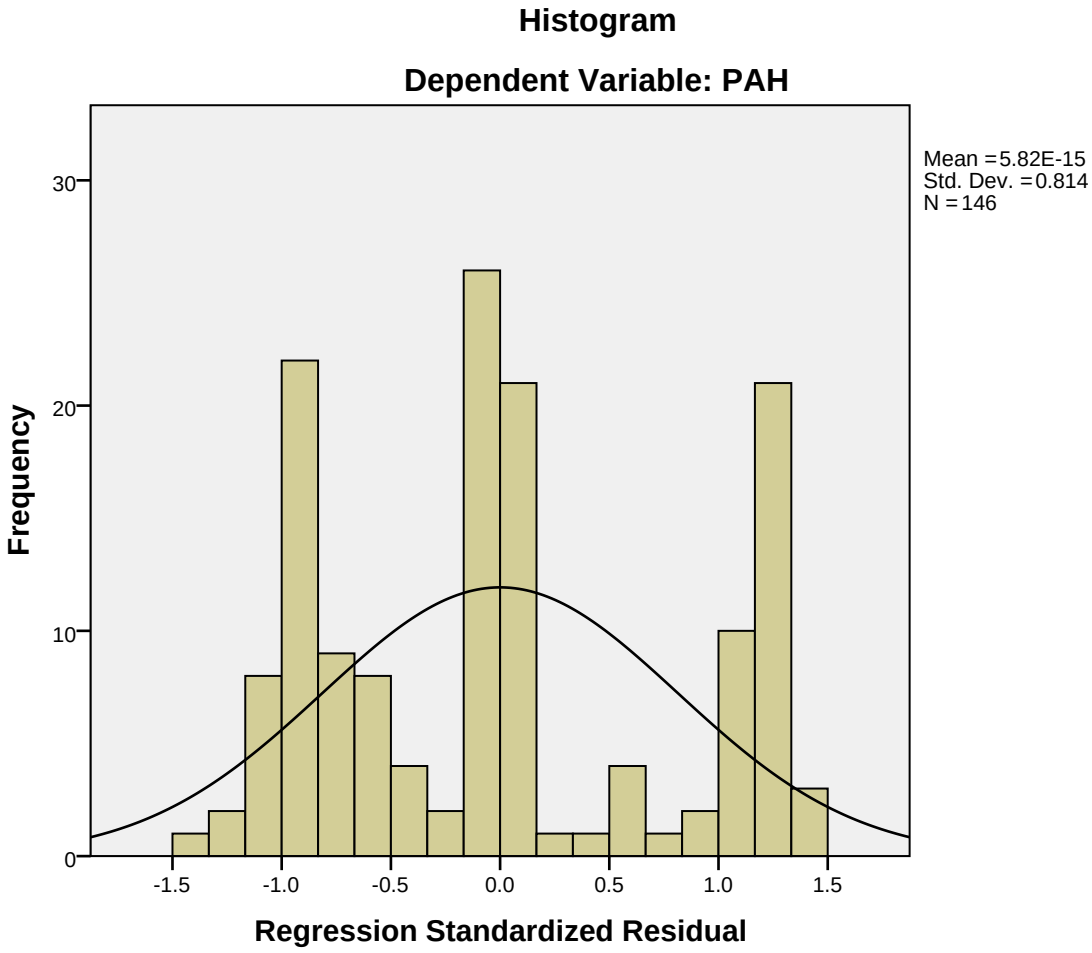
b. Predictors in the Model: (Constant), NOTCH3, SECTM1, SEC23A, MMP9, KRT1, KLRD1, AZGP1, CYP1B1, IL13RA2, CX3CL1, FGA, FABP4, PTGS1, CASP8, ESR2, PF4V1, MT2A, CLEC3B, SLC18A3, NR4A3, CDA, IFIT3, GYPB, GSTM3, TBR1, ARSE, MC2R, HLA.G, HAAO, FKBP8, LPL, SDS, GATA1, NRCAM, DNM1, TXK, CD72, PSG1, SCN1B, CLTCL1, GRIN2C, SCN5A, SLC8A1, ATF2, KRT18, GABRA1, COL17A1, S100A5, PRM2

Residuals Statistics[a]

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-.09	1.40	.51	.330	146
Residual	-.691	.660	.000	.378	146
Std. Predicted Value	-1.823	2.719	.000	1.000	146
Std. Residual	-1.488	1.421	.000	.814	146

a. Dependent Variable: PAH

Charts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Dependent Variable: PAH
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Std. Dev. = 0.814
N = 146
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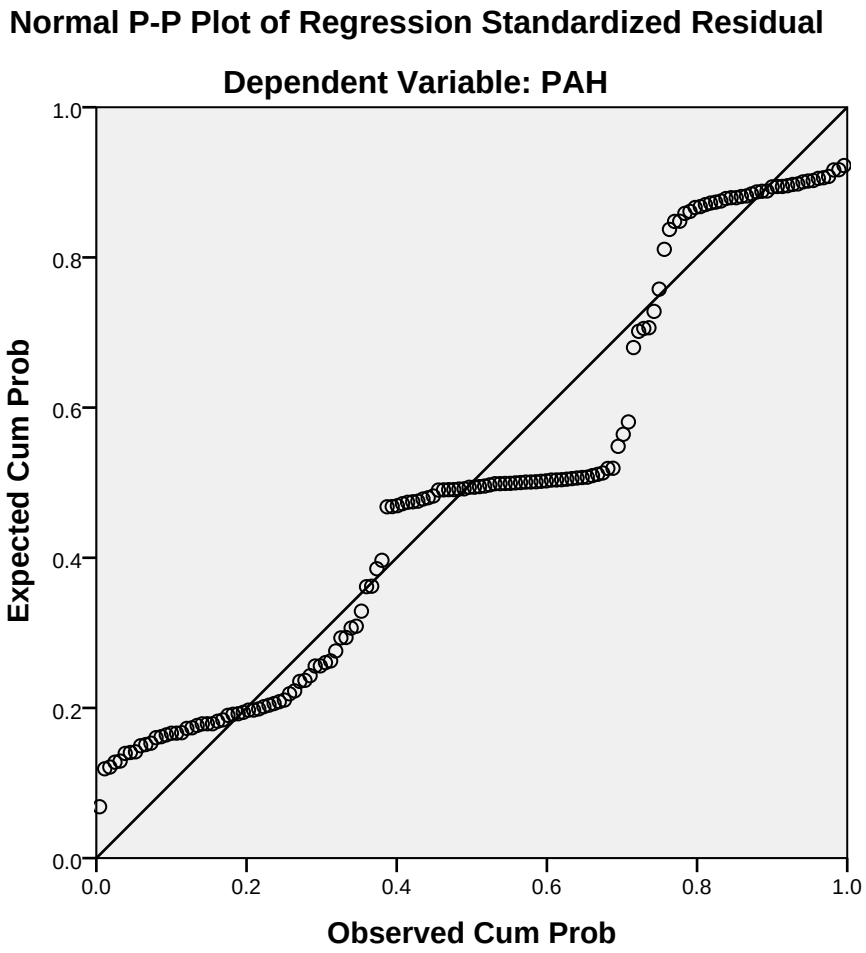
1.0
1.5
Regression Standardized Residual


Normal P-P Plot of Regression Standardized Residual
Dependent Variable: PAH
Expected Cum Prob
Observed Cum Prob
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0.4
0.6
0.8
1.0