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Příloha 1. Výsledky ANOVA – vliv faktoru pohlaví a diagnózy na proměnnou ΔKV_RUS_CARP

General Linear Models (abs(SR)<3)

Number of dependent variables: 1

Number of categorical

factors: 2

A=sex

B=Dg

Number of quantitative factors: 0

Selection variable:

abs(SR)<3

Box-Cox transformation applied: power = -0.110355 shift = 1.6

Analysis of Variance for
dKV_RUS_CARP

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Model	6,489	7	0,927	4,37	0,0002
Residual	32,0667	151	0,212362		
Total (Corr.)	38,5557	158			

Type III Sums of Squares

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
sex	0,164488	1	0,164488	0,77	0,3802
Dg	5,61958	3	1,87319	8,82	0
sex*Dg	0,292802	3	0,097601	0,46	0,7109
Residual	32,0667	151	0,212362		
Total (corrected)	38,5557	158			

Expected Mean Squares

Source	EMS
sex	(4)+Q1
Dg	(4)+Q2
sex*Dg	(4)+Q3
Residual	-4

F-Test Denominators

Source	Df	Mean Square	Denominator
sex	151	0,212362	-4
Dg	151	0,212362	-4
sex*Dg	151	0,212362	-4

Variance Components

Source	Estimate
Residual	0,212362

R-Squared = 16.8302
percent

R-Squared (adjusted for d.f.) = 12.9747 percent

Standard Error of Est. =

0.460828

Mean absolute error =

0.354034

Durbin-Watson statistic = 1.98674 (P=0.4669)

Příloha 2. Výsledky ANOVA – vliv faktoru pohlaví a diagnózy na proměnnou $\Delta\text{CHV_VV}$

General Linear Models (abs(SR)<3)

Number of dependent variables: 1

Number of categorical

factors: 2

A=sex

B=Dg

Number of quantitative factors: 0

Selection variable:

abs(SR)<3

Box-Cox transformation applied: power = 0.811399 shift = 1.6

Analysis of Variance for dCHV_VV

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Model	9,04499	7	1,29214	1,37	0,2217
Residual	147,157	156	0,943314		
Total (Corr.)	156,202	163			

Type III Sums of Squares

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
sex	0,07747	1	0,07747	0,08	0,7748
Dg	6,91251	3	2,30417	2,44	0,0663
sex*Dg	1,28845	3	0,429483	0,46	0,7139
Residual	147,157	156	0,943314		
Total (corrected)	156,202	163			

Expected Mean Squares

Source	EMS
sex	(4)+Q1
Dg	(4)+Q2
sex*Dg	(4)+Q3
Residual	-4

F-Test Denominators

Source	Df	Mean Square	Denominator
sex	156	0,943314	-4
Dg	156	0,943314	-4
sex*Dg	156	0,943314	-4

Variance Components

Source	Estimate
Residual	0,943314

R-Squared = 5.79057

percent

R-Squared (adjusted for d.f.) = 1.56323 percent

Standard Error of Est. =

0.971243

Mean absolute error =

0.757636

Durbin-Watson statistic = 2.00592 (P=0.5150)

Příloha 3. Výsledky ANOVA – vliv faktoru pohlaví a diagnózy na proměnnou Amidpar_TW3

General Linear Models (abs(SR)<3)

Number of dependent variables: 1

Number of categorical

factors: 2

A=sex

B=Dg

Number of quantitative factors: 0

Selection variable:

abs(SR)<3

Box-Cox transformation applied: power = 1.22123 shift = 10.0

Analysis of Variance for
d_midpar_TW3

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Model	448,607	7	64,0867	2,65	0,0129
Residual	3796,79	157	24,1833		
Total (Corr.)	4245,39	164			

Type III Sums of Squares

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
sex	17,8472	1	17,8472	0,74	0,3916
Dg	353,7	3	117,9	4,88	0,0029
sex*Dg	59,7417	3	19,9139	0,82	0,4828
Residual	3796,79	157	24,1833		
Total (corrected)	4245,39	164			

Expected Mean Squares

Source	EMS
sex	(4)+Q1
Dg	(4)+Q2
sex*Dg	(4)+Q3
Residual	-4

F-Test Denominators

Source	Df	Mean Square	Denominator
sex	157	24,1833	-4
Dg	157	24,1833	-4
sex*Dg	157	24,1833	-4

Variance Components

Source	Estimate
Residual	24,1833

R-Squared = 10.5669 percent

R-Squared (adjusted for d.f.) = 6.57945 percent

Standard Error of Est. =

4.91766

Mean absolute error =

3.79623

Durbin-Watson statistic = 1.81532 (P=0.1184)

Příloha 4. Parametry modelu logistické regrese pro odhad suspektní hypotyreózy z parametru ΔKV_RUS_CARP

R+...actual positivity (HypoT)	n		Sloupcová %	
R-...actual negativity (non-hypoT)	R+	R-		
T+...predicted positivity	13	4	T+	27,1%
T-...predicted negativity	35	114	T-	72,9%
	48	118		100,0%
				10,2%
				89,8%
				100,0%

Řádková %	n		Tabulková %	
	R+	R-		
T+	76,5%	23,5%	T+	7,8%
T-	23,5%	76,5%	T-	21,1%
	28,9%	71,1%		28,9%
				71,1%
				100,0%

Sensitivity:	0,270833	CI: 0.1657 to 0.41
Specificity:	0,966102	CI: 0.9161 to 0.9867
Positive likelihood ratio:	7,989583	CI: 2.743 to 23.275
Negative likelihood ratio:	0,754751	CI: 0.633 to 0.9
Diagnostic odds ratio:	10,58571	CI: 3.243 to 34.551

Sensitivity = 0.271 (0.1657, 0.41);
 Specificity = 0.966 (0.9161, 0.9867)
 Positive likelihood ratio: = 7.99 (2.743 , 23.275);
 Negative likelihood ratio: = 0.755 (0.633 , 0.9)
 Diagnostic odds ratio: = 10.586 (3.243 , 34.551)

Příloha 5. Parametry modelu logistické regrese pro odhad suspektní hypotyze z parametru ΔKV_RUS_CARP

R+...actual positivity (HypoT)	n	R+	R-	Sloupcová %
R-...actual negativity (non-hypoT)				
T+...predicted positivity	5	2	3	40,0%
T-...predicted negativity	10	3	7	30,0%
	15	5	10	100,0%

Řádková %	R+	R-	Tabulková %
T+	40,0%	60,0%	100,0%
T-	30,0%	70,0%	100,0%
	33,3%	66,7%	100,0%

	R+	R-
T+	13,3%	20,0%
T-	20,0%	46,7%
	33,3%	66,7%

Sensitivity:	0,4	CI: 0.1176 to 0.7693
Specificity:	0,7	CI: 0.3968 to 0.8922
Positive likelihood ratio:	1,333333	CI: 0.319 to 5.579
Negative likelihood ratio:	0,857143	CI: 0.376 to 1.951
Diagnostic odds ratio:	1,555556	CI: 0.165 to 14.654

Sensitivity = 0.4 (0.1176, 0.7693);
 Specificity = 0.7 (0.3968, 0.8922)
 Positive likelihood ratio: = 1.333 (0.319 , 5.579);
 Negative likelihood ratio: = 0.857 (0.376 , 1.951)
 Diagnostic odds ratio: = 1.556 (0.165 , 14.654)