

## รายการอ้างอิง

### รายการอ้างอิงภาษาไทย

- สาโรช จรรยาแพทย์ อภิชาติ ศรีฟ้าวัฒนา สหพล รัตนคัมภ์ อนุเทพ รังสีพิพัฒน์ สมพร เตชะงาม สุวรรณ และ รุ่งโรจน์ ชนาวงษ์นุเวช. 2544. การวินิจฉัยแยกแยะและพยากรณ์เนื้องอกชนิด มาสต์เซลล์ในสุนัข. เวชสารสัตวแพทย์ 31(3): 13-27.
- อนุเทพ รังสีพิพัฒน์ บุญมี สัตยสุจจารี เล็ก อัสวพลังชัย อัจฉริยา ไสละสูต รุ่งโรจน์ ชนาวงษ์นุเวช และคมกฤช เทียนคำ. 2546. เนื้องอกของสุนัขในเขตกรุงเทพมหานคร. เวชสารสัตวแพทย์ 33(1): 60-66.

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ภาคผนวก

### ภาคผนวก

#### Paired T-Test and CI: AgNORsPr, AgNORsPt

Paired T for AgNORs

	N	Mean	StDev	SE Mean
Pr	11	1.842	0.421	0.127
Pt	11	1.598	0.309	0.093
Difference	11	0.2436	0.2680	0.0808

95% CI for mean difference: (0.0636, 0.4237)

T-Test of mean difference = 0 (vs not = 0): T-Value = 3.02 P-Value = 0.013

#### Paired T-Test and CI: PCNAPr, PCNAPt

Paired T for PCNA

	N	Mean	StDev	SE Mean
Pr	11	18.55	5.90	1.78
Pt	11	12.40	7.15	2.16
Difference	11	6.14	4.05	1.22

95% CI for mean difference: (3.42, 8.86)

T-Test of mean difference = 0 (vs not = 0): T-Value = 5.03 P-Value = 0.001

#### Paired T-Test and CI: KiPR, KiPt

Paired T for Ki-67

	N	Mean	StDev	SE Mean
Pr	11	6.56	5.92	1.78
Pt	11	1.91	1.35	0.41
Difference	11	4.65	5.08	1.53

95% CI for mean difference: (1.24, 8.07)

T-Test of mean difference = 0 (vs not = 0): T-Value = 3.04 P-Value = 0.012

#### Paired T-Test and CI: PGPPr, PGPPt

Paired T for PGP

	N	Mean	StDev	SE Mean
Pr	11	11.40	6.11	1.84
Pt	11	9.40	5.61	1.69
Difference	11	2.00	4.66	1.40

95% CI for mean difference: (-1.13, 5.13)

T-Test of mean difference = 0 (vs not = 0): T-Value = 1.42 P-Value = 0.185

#### Paired T-Test and CI: MRPPr, MRPPt

Paired T for MRP

	N	Mean	StDev	SE Mean
Pr	11	21.95	24.59	7.41
Pt	11	17.45	22.96	6.92
Difference	11	4.49	22.91	6.91

95% CI for mean difference: (-10.90, 19.88)

T-Test of mean difference = 0 (vs not = 0): T-Value = 0.65 P-Value = 0.530

**One-way ANOVA: Ag<100Pr, Ag100-200Pr, Ag>200Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	0.353	0.177	1.09	0.355
Error	20	3.232	0.162		
Total	22	3.585			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
Ag<100Pr	11	1.7109	0.4014
Ag100-20	9	1.9122	0.3436
Ag>200Pr	3	2.0433	0.5816

Pooled StDev = 0.4020

1.50 1.80 2.10 2.40

**One-way ANOVA: PCNA<100Pr, PCNA100-200Pr, PCNA>200Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	349.2	174.6	2.28	0.129
Error	20	1535.0	76.7		
Total	22	1884.2			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PCNA<100	11	22.545	8.110
PCNA100-	9	16.067	8.930
PCNA>200	3	12.267	10.937

Pooled StDev = 8.761

8.0 16.0 24.0

**One-way ANOVA: Ki<100Pr, Ki100-200Pr, Ki>200Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	87.2	43.6	0.82	0.455
Error	20	1063.3	53.2		
Total	22	1150.4			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
Ki<100Pr	11	8.400	7.950
Ki100-20	9	6.467	7.041
Ki>200Pr	3	2.400	4.157

Pooled StDev = 7.291

-6.0 0.0 6.0 12.0

**One-way ANOVA: PGP<100Pr, PGP100-200Pr, PGP>200Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	76.0	38.0	0.92	0.415
Error	20	825.3	41.3		
Total	22	901.3			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PGP<100P	11	7.236	4.362
PGP100-2	9	10.800	8.346
PGP>200P	3	6.600	6.239

Pooled StDev = 6.424

0.0 5.0 10.0 15.0



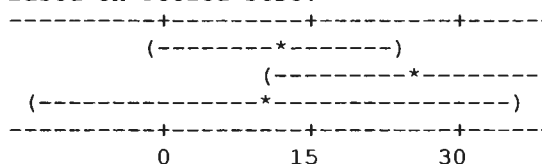
**One-way ANOVA: MRP<100Pr, MRP100-200Pr, MRP>200**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	1051	525	1.24	0.312
Error	20	8504	425		
Total	22	9555			

Level	N	Mean	StDev
MRP<100P	11	11.35	19.25
MRP100-2	9	25.09	22.61
MRP>200	3	10.87	18.82

Pooled StDev = 20.62

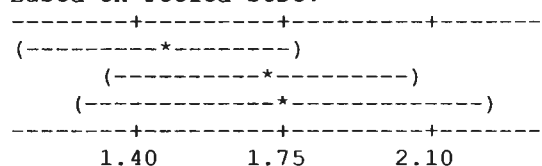
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: Ag<100Pt, Ag100-200Pt, Ag>200Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	0.1936	0.0968	1.02	0.404
Error	8	0.7600	0.0950		
Total	10	0.9536			

Level	N	Mean	StDev
Ag<100Pt	5	1.4540	0.1454
Ag100-20	4	1.7025	0.3906
Ag>200Pt	2	1.7500	0.4667

Pooled StDev = 0.3082

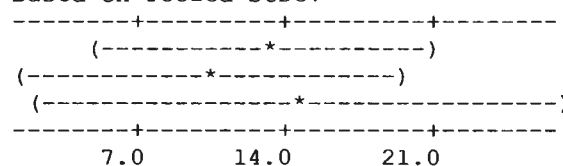
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: PCNA<100Pt, PCNA100-200Pt, PCNA>200Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	26.5	13.2	0.22	0.808
Error	8	484.4	60.6		
Total	10	510.9			

Level	N	Mean	StDev
PCNA<100	5	13.120	7.564
PCNA100-	4	10.460	8.467
PCNA>200	2	14.500	6.364

Pooled StDev = 7.782

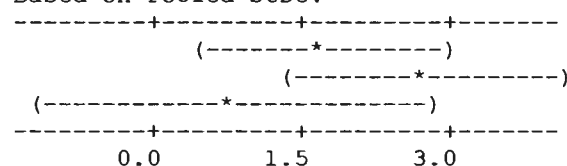
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: Ki<100Pt, Ki100-200Pt, Ki>200Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	5.55	2.78	1.73	0.237
Error	8	12.80	1.60		
Total	10	18.35			

Level	N	Mean	StDev
Ki<100Pt	5	1.680	1.188
Ki100-20	4	2.750	1.399
Ki>200Pt	2	0.800	1.131

Pooled StDev = 1.265

Individual 95% CIs For Mean  
Based on Pooled StDev

**One-way ANOVA: PGP<100Pt, PGP100-200Pt, PGP>200Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	15.7	7.9	0.21	0.814
Error	8	298.5	37.3		
Total	10	314.2			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PGP<100P	5	10.160	4.947
PGP100-2	4	9.700	5.927
PGP>200P	2	6.900	9.758

Pooled StDev = 6.108

**One-way ANOVA: MRP<100Pt, MRP100-200Pt, MRP>200Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	253	126	0.20	0.822
Error	8	5021	628		
Total	10	5274			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
MRP<100P	5	13.00	20.76
MRP100-2	4	23.60	30.36
MRP>200P	2	16.30	23.05

Pooled StDev = 25.05

**One-way ANOVA: AgPRPr, AgSDPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	0.359	0.359	2.33	0.141
Error	21	3.227	0.154		
Total	22	3.585			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
AgPRPr	18	1.7672	0.3797
AgSDPr	5	2.0700	0.4403

Pooled StDev = 0.3920

**One-way ANOVA: PCNAPRPr, PCNASDPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	26.9	26.9	0.30	0.587
Error	21	1857.3	88.4		
Total	22	1884.2			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PCNAPRPr	18	18.100	10.048
PCNASDPr	5	20.720	5.937

Pooled StDev = 9.405

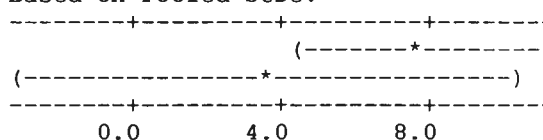
**One-way ANOVA: KiPRPr, KiSDPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	66.3	66.3	1.28	0.270
Error	21	1084.2	51.6		
Total	22	1150.4			

Level	N	Mean	StDev
KiPRPr	18	7.756	7.704
KiSDPr	5	3.640	4.337

Pooled StDev = 7.185

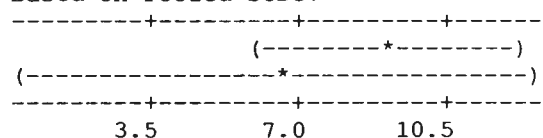
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: PGPPRPr, PGPSDPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	26.3	26.3	0.63	0.436
Error	21	875.0	41.7		
Total	22	901.3			

Level	N	Mean	StDev
PGPPRPr	18	9.111	6.847
PGPSDPr	5	6.520	4.415

Pooled StDev = 6.455

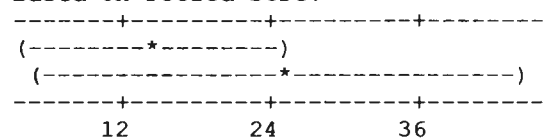
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: MRPPRPr, MRPSDPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	419	419	0.96	0.338
Error	21	9136	435		
Total	22	9555			

Level	N	Mean	StDev
MRPPRPr	18	14.41	19.32
MRPSDPr	5	24.76	26.41

Pooled StDev = 20.86

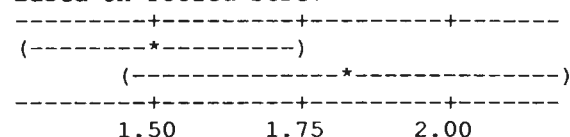
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: AgPRPt, AgSDPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	0.2217	0.2217	2.73	0.133
Error	9	0.7319	0.0813		
Total	10	0.9536			

Level	N	Mean	StDev
AgPRPt	8	1.5113	0.2607
AgSDPt	3	1.8300	0.3579

Pooled StDev = 0.2852

Individual 95% CIs For Mean  
Based on Pooled StDev

**One-way ANOVA: PCNAPRpt, PCNASDpt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	18.7	18.7	0.34	0.573
Error	9	492.2	54.7		
Total	10	510.9			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PCNAPRpt	8	11.605	8.033
PCNASDpt	3	14.533	4.500

Pooled StDev = 7.395

**One-way ANOVA: KiPRpt, KiSDpt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	0.58	0.58	0.30	0.600
Error	9	17.77	1.97		
Total	10	18.35			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
KiPRpt	8	2.050	1.376
KiSDpt	3	1.533	1.501

Pooled StDev = 1.405

**One-way ANOVA: PGPPRpt, PGPSDpt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	70.5	70.5	2.60	0.141
Error	9	243.8	27.1		
Total	10	314.2			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PGPPRpt	8	10.950	4.351
PGPSDpt	3	5.267	7.457

Pooled StDev = 5.204

**One-way ANOVA: MRPPRPT, MRPSDpt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	881	881	1.80	0.212
Error	9	4393	488		
Total	10	5274			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
MRPPRPT	8	11.98	18.40
MRPSDpt	3	32.07	31.80

Pooled StDev = 22.09

**One-way ANOVA: Ag+Pr, Ag-Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	0.058	0.058	0.34	0.565
Error	21	3.528	0.168		
Total	22	3.585			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev	
Ag+Pr	10	1.7760	0.3238	(-----*-----)
Ag-Pr	13	1.8769	0.4641	(-----*-----)

Pooled StDev = 0.4099

1.60      1.80      2.00      2.20

**One-way ANOVA: PCNA+Pr, PCNA-Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	0.6	0.6	0.01	0.933
Error	21	1883.6	89.7		
Total	22	1884.2			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev	
PCNA+Pr	10	18.860	6.010	(-----*-----)
PCNA-Pr	13	18.523	11.396	(-----*-----)

Pooled StDev = 9.471

14.0      17.5      21.0      24.5

**One-way ANOVA: Ki+Pr, Ki-Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	5.5	5.5	0.10	0.753
Error	21	1144.9	54.5		
Total	22	1150.4			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev	
Ki+Pr	10	7.420	5.793	(-----*-----)
Ki-Pr	13	6.431	8.381	(-----*-----)

Pooled StDev = 7.384

3.0      6.0      9.0      12.0

**One-way ANOVA: PGP+Pr, PGP-Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	7.5	7.5	0.18	0.678
Error	21	893.8	42.6		
Total	22	901.3			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev	
PGP+Pr	10	9.200	8.385	(-----*-----)
PGP-Pr	13	8.046	4.663	(-----*-----)

Pooled StDev = 6.524

5.0      7.5      10.0      12.5

**One-way ANOVA: MRP+Pr, MRP-Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	181	181	0.41	0.531
Error	21	9374	446		
Total	22	9555			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
MRP+Pr	10	19.86	27.98
MRP-Pr	13	14.20	13.93

Pooled StDev = 21.13

**One-way ANOVA: Ag+Pt, Ag-Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	0.005	0.005	0.05	0.829
Error	9	0.948	0.105		
Total	10	0.954			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
Ag+Pt	6	1.5783	0.2201
Ag-Pt	5	1.6220	0.4201

Pooled StDev = 0.3246

**One-way ANOVA: PCNA+Pt, PCNA-Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	158.3	158.3	4.04	0.075
Error	9	352.6	39.2		
Total	10	510.9			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PCNA+Pt	6	15.867	3.861
PCNA-Pt	5	8.248	8.337

Pooled StDev = 6.259

**One-way ANOVA: Ki+Pt, Ki-Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	3.63	3.63	2.22	0.171
Error	9	14.72	1.64		
Total	10	18.35			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
Ki+Pt	6	2.433	1.494
Ki-Pt	5	1.280	0.944

Pooled StDev = 1.279

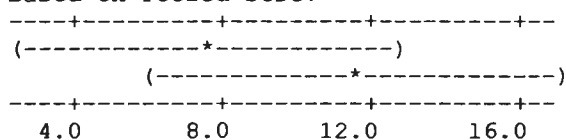
**One-way ANOVA: PGP+Pt, PGP-Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	38.1	38.1	1.24	0.294
Error	9	276.1	30.7		
Total	10	314.2			

Level	N	Mean	StDev
PGP+Pt	6	7.700	6.614
PGP-Pt	5	11.440	3.788

Pooled StDev = 5.539

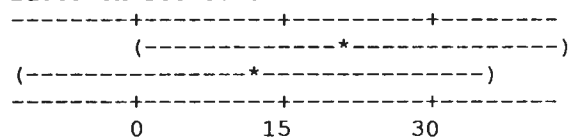
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: MRP+Pt, MRP-Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	209	209	0.37	0.557
Error	9	5065	563		
Total	10	5274			

Level	N	Mean	StDev
MRP+Pt	6	21.43	27.77
MRP-Pt	5	12.68	17.37

Pooled StDev = 23.72

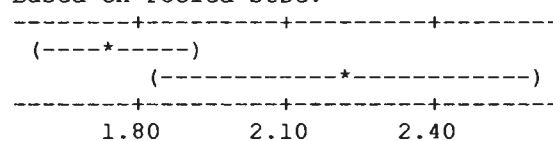
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: Ag+Pr, Ag-Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	0.688	0.688	4.99	0.037
Error	21	2.897	0.138		
Total	22	3.585			

Level	N	Mean	StDev
Ag+Pr	19	1.7537	0.3256
Ag-Pr	4	2.2100	0.5743

Pooled StDev = 0.3714

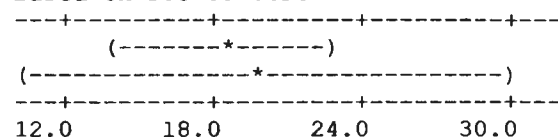
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: PCNA+Pr, PCNA-Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	9.2	9.2	0.10	0.751
Error	21	1875.0	89.3		
Total	22	1884.2			

Level	N	Mean	StDev
PCNA+Pr	19	18.379	9.818
PCNA-Pr	4	20.050	6.826

Pooled StDev = 9.449

Individual 95% CIs For Mean  
Based on Pooled StDev

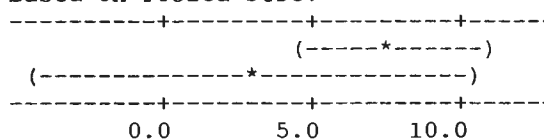
**One-way ANOVA: Ki+Pr, Ki-Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	77.9	77.9	1.53	0.230
Error	21	1072.5	51.1		
Total	22	1150.4			

Level	N	Mean	StDev
Ki+Pr	19	7.705	7.532
Ki-Pr	4	2.850	4.139

Pooled StDev = 7.147

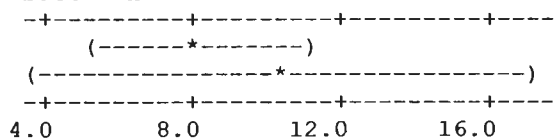
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: PGP+Pr, PGP-Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	17.5	17.5	0.42	0.526
Error	21	883.8	42.1		
Total	22	901.3			

Level	N	Mean	StDev
PGP+Pr	19	8.147	6.783
PGP-Pr	4	10.450	4.303

Pooled StDev = 6.487

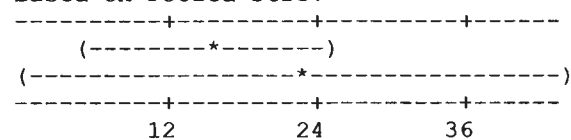
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: MRP+Pr, MRP-Pr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	165	165	0.37	0.550
Error	21	9390	447		
Total	22	9555			

Level	N	Mean	StDev
MRP+Pr	19	15.43	22.21
MRP-Pr	4	22.50	13.06

Pooled StDev = 21.15

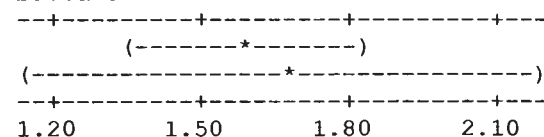
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: Ag+Pt, Ag-Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	0.011	0.011	0.10	0.754
Error	9	0.943	0.105		
Total	10	0.954			

Level	N	Mean	StDev
Ag+Pt	9	1.5833	0.2735
Ag-Pt	2	1.6650	0.5869

Pooled StDev = 0.3236

Individual 95% CIs For Mean  
Based on Pooled StDev



**One-way ANOVA: PCNA+Pt, PCNA-Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	17.9	17.9	0.33	0.582
Error	9	493.0	54.8		
Total	10	510.9			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PCNA+Pt	9	13.004	6.325
PCNA-Pt	2	9.700	13.152

Pooled StDev = 7.401

**One-way ANOVA: Ki+Pt, Ki-Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	3.01	3.01	1.76	0.217
Error	9	15.34	1.70		
Total	10	18.35			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
Ki+Pt	9	2.156	1.326
Ki-Pt	2	0.800	1.131

Pooled StDev = 1.306

**One-way ANOVA: PGP+Pt, PGP-Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	68.7	68.7	2.52	0.147
Error	9	245.6	27.3		
Total	10	314.2			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PGP+Pt	9	8.222	5.522
PGP-Pt	2	14.700	1.273

Pooled StDev = 5.224

**One-way ANOVA: MRP+Pt, MRP-Pt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	3	3	0.01	0.942
Error	9	5270	586		
Total	10	5274			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
MRP+Pt	9	17.71	24.34
MRP-Pt	2	16.30	23.05

Pooled StDev = 24.20

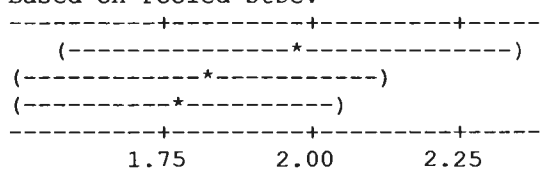
**One-way ANOVA: AgIIPr, AgIIIPr, AgIVPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	0.134	0.067	0.39	0.683
Error	20	3.451	0.173		
Total	22	3.585			

Level	N	Mean	StDev
AgIIPr	5	1.9740	0.5149
AgIIIPr	8	1.8163	0.4547
AgIVPr	10	1.7760	0.3238

Pooled StDev = 0.4154

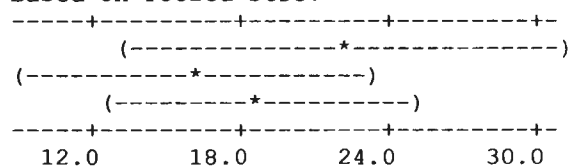
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: PCNAIIPr, PCNAIIIPr, PCNAIVPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	110.5	55.2	0.62	0.546
Error	20	1773.7	88.7		
Total	22	1884.2			

Level	N	Mean	StDev
PCNAIIPr	5	22.200	12.663
PCNAIIIPr	8	16.225	10.738
PCNAIVPr	10	18.860	6.010

Pooled StDev = 9.417

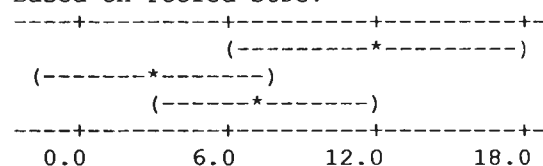
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: KiIIPr, KiIIIPr, KiIVPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	264.8	132.4	2.99	0.073
Error	20	885.6	44.3		
Total	22	1150.4			

Level	N	Mean	StDev
KiIIPr	5	12.080	10.630
KiIIIPr	8	2.900	4.336
KiIVPr	10	7.420	5.793

Pooled StDev = 6.654

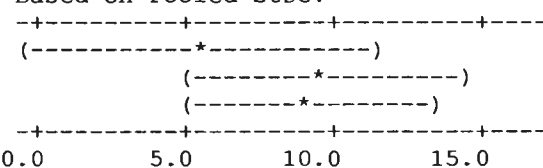
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: PGPIIPr, PGPIIIPr, PGPIVPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	56.1	28.1	0.66	0.526
Error	20	845.2	42.3		
Total	22	901.3			

Level	N	Mean	StDev
PGPIIPr	5	5.600	4.357
PGPIIIPr	8	9.575	4.415
PGPIVPr	10	9.200	8.385

Pooled StDev = 6.501

Individual 95% CIs For Mean  
Based on Pooled StDev

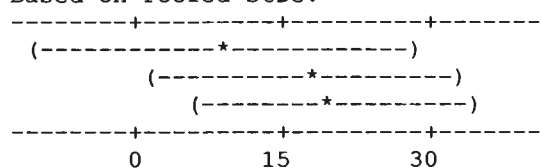
**One-way ANOVA: MRPIIPr, MRPIIPr, MRPIVPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	2	414	207	0.45	0.642
Error	20	9141	457		
Total	22	9555			

Level	N	Mean	StDev
MRPIIPr	5	8.84	12.76
MRPIIPr	8	17.55	14.36
MRPIVPr	10	19.86	27.98

Pooled StDev = 21.38

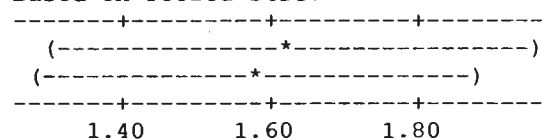
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: AgIIIPt, AgIVPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	0.005	0.005	0.05	0.829
Error	9	0.948	0.105		
Total	10	0.954			

Level	N	Mean	StDev
AgIIIPt	5	1.6220	0.4201
AgIVPt	6	1.5783	0.2201

Pooled StDev = 0.3246

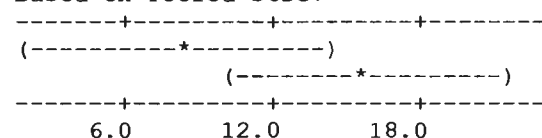
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: PCNAIIIPt, PCNAIVPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	158.3	158.3	4.04	0.075
Error	9	352.6	39.2		
Total	10	510.9			

Level	N	Mean	StDev
PCNAIIIP	5	8.248	8.337
PCNAIVPt	6	15.867	3.861

Pooled StDev = 6.259

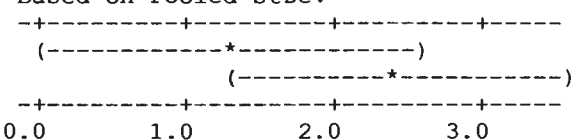
Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: KillIIPt, KiIVPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	3.63	3.63	2.22	0.171
Error	9	14.72	1.64		
Total	10	18.35			

Level	N	Mean	StDev
KiIIIPt	5	1.280	0.944
KiIVPt	6	2.433	1.494

Pooled StDev = 1.279

Individual 95% CIs For Mean  
Based on Pooled StDev

**One-way ANOVA: PGPIIPt, PGPIVPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	38.1	38.1	1.24	0.294
Error	9	276.1	30.7		
Total	10	314.2			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PGPIIPt	5	11.440	3.788
PGPIVPt	6	7.700	6.614

Pooled StDev = 5.539

**One-way ANOVA: MRPIIPt, MRPIVPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	209	209	0.37	0.557
Error	9	5065	563		
Total	10	5274			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
MRPIIPt	5	12.68	17.37
MRPIVPt	6	21.43	27.77

Pooled StDev = 23.72

**One-way ANOVA: AgaPr, AgbPR**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	0.085	0.085	0.51	0.483
Error	21	3.500	0.167		
Total	22	3.585			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
AgaPr	15	1.7887	0.3884
AgbPR	8	1.9163	0.4454

Pooled StDev = 0.4083

**One-way ANOVA: PCNAaPr, PCNAbPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	41.1	41.1	0.47	0.501
Error	21	1843.1	87.8		
Total	22	1884.2			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PCNAaPr	15	17.693	9.442
PCNAbPr	8	20.500	9.219

Pooled StDev = 9.368

**One-way ANOVA: KiaPr, KibPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	1.6	1.6	0.03	0.866
Error	21	1148.8	54.7		
Total	22	1150.4			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
KiaPr	15	7.053	8.142
KibPr	8	6.500	5.615

-----+-----+-----+-----+-----  
 (-----\*-----)  
 (-----\*-----)  
 -----+-----+-----+-----+-----  
 3.0          6.0          9.0

Pooled StDev = 7.396

**One-way ANOVA: PGPaPr, PGPbPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	31.3	31.3	0.76	0.394
Error	21	870.0	41.4		
Total	22	901.3			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PGPaPr	15	9.400	7.216
PGPbPr	8	6.950	4.487

-----+-----+-----+-----+-----  
 (-----\*-----)  
 (-----\*-----)  
 -----+-----+-----+-----+-----  
 3.0          6.0          9.0          12.0

Pooled StDev = 6.436

**One-way ANOVA: MRPaPr, MRPbPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	296	296	0.67	0.422
Error	21	9259	441		
Total	22	9555			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
MRPaPr	15	14.04	16.62
MRPbPr	8	21.58	27.75

-----+-----+-----+-----+-----  
 (-----\*-----)  
 (-----\*-----)  
 -----+-----+-----+-----+-----  
 10          20          30

Pooled StDev = 21.00

**One-way ANOVA: AgaPt, AgbPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	0.1316	0.1316	1.44	0.261
Error	9	0.8220	0.0913		
Total	10	0.9536			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
AgaPt	6	1.4983	0.3078
AgbPt	5	1.7180	0.2951

-----+-----+-----+-----+-----  
 (-----\*-----)  
 (-----\*-----)  
 -----+-----+-----+-----+-----  
 1.25          1.50          1.75          2.00

Pooled StDev = 0.3022

**One-way ANOVA: PCNAaPt, PCNAbPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	44.5	44.5	0.86	0.378
Error	9	466.3	51.8		
Total	10	510.9			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PCNAaPt	6	10.567	8.684
PCNAbPt	5	14.608	4.724

Pooled StDev = 7.198

**One-way ANOVA: KiaPt, KibPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	1.00	1.00	0.52	0.489
Error	9	17.35	1.93		
Total	10	18.35			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
KiaPt	6	1.633	1.477
KibPt	5	2.240	1.268

Pooled StDev = 1.388

**One-way ANOVA: PGPaPt, PGPbPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	4.8	4.8	0.14	0.719
Error	9	309.5	34.4		
Total	10	314.2			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
PGPaPt	6	10.000	6.185
PGPbPt	5	8.680	5.436

Pooled StDev = 5.864

**One-way ANOVA: MRPaPt, MRPbPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	1	1908	1908	5.10	0.050
Error	9	3366	374		
Total	10	5274			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
MRPaPt	6	5.43	13.31
MRPbPt	5	31.88	24.90

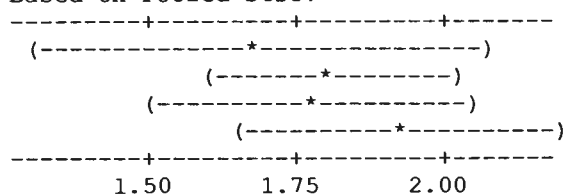
Pooled StDev = 19.34

**One-way ANOVA: AgHNPr, AgTPr, AgEPr, AGIPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	3	0.174	0.058	0.41	0.747
Error	29	4.107	0.142		
Total	32	4.281			

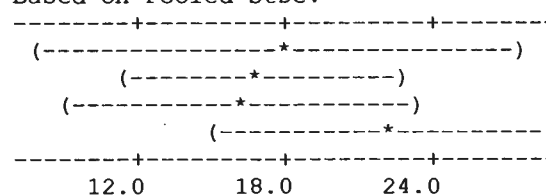
Level	N	Mean	StDev
AgHNPr	4	1.6800	0.1433
AgTPr	13	1.8069	0.4465
AgEPr	8	1.7788	0.2792
AGIPr	8	1.9213	0.3978

Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: PCNAHNPr, PCNATPr, PCNAEPr, PCNAIPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	3	161.7	53.9	0.56	0.644
Error	29	2776.1	95.7		
Total	32	2937.9			

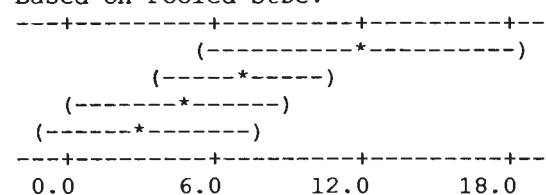
Level	N	Mean	StDev
PCNAHNPr	4	17.800	7.045
PCNATPr	13	17.092	7.952
PCNAEPr	8	16.175	11.340
PCNAIPr	8	21.950	11.762

Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: KiHNPr, KiTPr, KiEPr, KiIPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	3	234.0	78.0	1.84	0.161
Error	29	1226.6	42.3		
Total	32	1460.6			

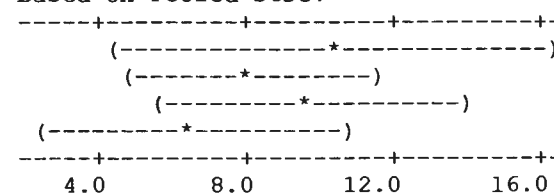
Level	N	Mean	StDev
KiHNPr	4	12.000	11.031
KiTPr	13	7.000	6.057
KiEPr	8	4.550	5.845
KiIPr	8	3.250	5.101

Individual 95% CIs For Mean  
Based on Pooled StDev**One-way ANOVA: PGPHNPr, PGPTPr, PGPEPr, PGPIPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	3	59.3	19.8	0.57	0.641
Error	29	1012.6	34.9		
Total	32	1072.0			

Level	N	Mean	StDev
PGPHNPr	4	10.300	2.436
PGPTPr	13	8.062	5.425
PGPEPr	8	9.750	8.558
PGPIPr	8	6.500	4.292

Individual 95% CIs For Mean  
Based on Pooled StDev

**One-way ANOVA: MRPHNPr, MRPTPr, MRPEPr, MRPIPr**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	3	651	217	0.48	0.698
Error	29	13074	451		
Total	32	13725			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev	CI
MRPHNPr	4	4.15	4.91	(-----*-----)
MRPTPr	13	18.42	20.62	(-----*-----)
MRPEPr	8	16.70	23.48	(-----*-----)
MRPIPr	8	17.10	24.02	(-----*-----)

Pooled StDev = 21.23

-15                      0                      15                      30

**One-way ANOVA: AgHNPt, AgTPt, AgEPt, AgIPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	3	0.1562	0.0521	0.55	0.656
Error	14	1.3251	0.0947		
Total	17	1.4813			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev	CI
AgHNPt	3	1.3833	0.1193	(-----*-----)
AgTPt	7	1.5857	0.3141	(-----*-----)
AgEPt	5	1.5400	0.3365	(-----*-----)
AgIPt	3	1.6967	0.3547	(-----*-----)

Pooled StDev = 0.3077

1.20                      1.50                      1.80

**One-way ANOVA: PCNAHNPt, PCNATPt, PCNAEPt, PCNAIPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	3	189.2	63.1	1.31	0.311
Error	14	675.3	48.2		
Total	17	864.4			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev	CI
PCNAHNPt	3	8.200	7.074	(-----*-----)
PCNATPt	7	12.006	6.701	(-----*-----)
PCNAEPt	5	8.208	8.403	(-----*-----)
PCNAIPt	3	17.333	3.420	(-----*-----)

Pooled StDev = 6.945

0.0                      8.0                      16.0                      24.0

**One-way ANOVA: KiHNPt, KiTPt, KiEPt, KiIPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	3	4.89	1.63	1.14	0.366
Error	14	19.98	1.43		
Total	17	24.87			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev	CI
KiHNPt	3	1.467	0.231	(-----*-----)
KiTPt	7	1.714	1.076	(-----*-----)
KiEPt	5	2.520	1.316	(-----*-----)
KiIPt	3	1.000	1.732	(-----*-----)

Pooled StDev = 1.195

0.0                      1.2                      2.4                      3.6



**One-way ANOVA: PGPHNPt, PGPTPt, PGPEPt, PGPIPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	3	43.5	14.5	0.45	0.719
Error	14	447.9	32.0		
Total	17	491.4			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev	
PGPHNPt	3	7.400	7.831	(-----*-----)
PGPTPt	7	7.800	5.303	(-----*-----)
PGPEPt	5	11.240	5.096	(-----*-----)
PGPIPt	3	9.467	5.132	(-----*-----)

Pooled StDev = 5.656

5.0      10.0      15.0

**One-way ANOVA: MRPHNPt, MRPTPt, MRPEPt, MRPIPt**

## Analysis of Variance

Source	DF	SS	MS	F	P
Factor	3	973	324	0.80	0.516
Error	14	5698	407		
Total	17	6671			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev	
MRPHNPt	3	0.00	0.00	(-----*-----)
MRPTPt	7	20.29	27.01	(-----*-----)
MRPEPt	5	9.64	14.02	(-----*-----)
MRPIPt	3	16.67	16.31	(-----*-----)

Pooled StDev = 20.17

-20      0      20      40

### ประวัติผู้เขียนวิทยานิพนธ์

สพญ. วิยะดา ศรีชาติ เกิดวันที่ 3 มิถุนายน พ.ศ. 2521 ที่จังหวัดกาฬสินธุ์ สำเร็จการศึกษาปริญญาตรีสัตวแพทยศาสตรบัณฑิต เกียรตินิยมอันดับสอง คณะสัตวแพทยศาสตร์ มหาวิทยาลัยขอนแก่น ทำงานในตำแหน่งสัตวแพทย์ประจำโรงพยาบาลสัตว์เอกชน เป็นระยะเวลา 2 ปี และได้เข้าศึกษาต่อในหลักสูตรวิทยาศาสตรมหาบัณฑิต สาขาพยาธิวิทยาทางสัตวแพทย์ ภาควิชาพยาธิวิทยา คณะสัตวแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย เมื่อปี พ.ศ. 2547