



## **Terms and Conditions of Use of Digitised Theses from Trinity College Library Dublin**

### **Copyright statement**

All material supplied by Trinity College Library is protected by copyright (under the Copyright and Related Rights Act, 2000 as amended) and other relevant Intellectual Property Rights. By accessing and using a Digitised Thesis from Trinity College Library you acknowledge that all Intellectual Property Rights in any Works supplied are the sole and exclusive property of the copyright and/or other IPR holder. Specific copyright holders may not be explicitly identified. Use of materials from other sources within a thesis should not be construed as a claim over them.

A non-exclusive, non-transferable licence is hereby granted to those using or reproducing, in whole or in part, the material for valid purposes, providing the copyright owners are acknowledged using the normal conventions. Where specific permission to use material is required, this is identified and such permission must be sought from the copyright holder or agency cited.

### **Liability statement**

By using a Digitised Thesis, I accept that Trinity College Dublin bears no legal responsibility for the accuracy, legality or comprehensiveness of materials contained within the thesis, and that Trinity College Dublin accepts no liability for indirect, consequential, or incidental, damages or losses arising from use of the thesis for whatever reason. Information located in a thesis may be subject to specific use constraints, details of which may not be explicitly described. It is the responsibility of potential and actual users to be aware of such constraints and to abide by them. By making use of material from a digitised thesis, you accept these copyright and disclaimer provisions. Where it is brought to the attention of Trinity College Library that there may be a breach of copyright or other restraint, it is the policy to withdraw or take down access to a thesis while the issue is being resolved.

### **Access Agreement**

By using a Digitised Thesis from Trinity College Library you are bound by the following Terms & Conditions. Please read them carefully.

I have read and I understand the following statement: All material supplied via a Digitised Thesis from Trinity College Library is protected by copyright and other intellectual property rights, and duplication or sale of all or part of any of a thesis is not permitted, except that material may be duplicated by you for your research use or for educational purposes in electronic or print form providing the copyright owners are acknowledged using the normal conventions. You must obtain permission for any other use. Electronic or print copies may not be offered, whether for sale or otherwise to anyone. This copy has been supplied on the understanding that it is copyright material and that no quotation from the thesis may be published without proper acknowledgement.

**VARIATIONS**  
**in**  
**SILVER STAINED NUCLEOLAR ORGANISER**  
**REGIONS (AgNORs)**  
**in NORMAL, IRRADIATED and NEOPLASTIC**  
**TISSUES**

**Volume II**

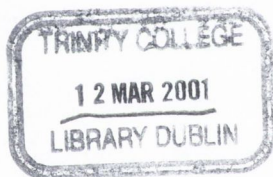
**By**  
**Joseph Gallagher McDermott**

**Thesis submitted for the Degree of Doctor of Philosophy**

**Faculty of Science**  
**Trinity College Dublin**  
**July 2000**

VARIATIONS  
in  
SILVER STAINED NUCLEOLAR ORGANISER  
REGIONS (AGNORS)  
in NORMAL, IRRADIATED and NEOPLASTIC  
TISSUES

Volume II



*Thesis*  
5983.2

Thesis submitted for the Degree of Doctor of Philosophy

Faculty of Science  
Trinity College, Dublin  
July 2000

## VOLUME II

## CONTENTS

### Statistics

#### Part 1. AgNOR Area/Nucleus v Post Irradiation Time, 5Gy, 10Gy, 15Gy, 20 Gy

Upper Villus, 30mins	pages 5-6
Lower Villus, 30mins	7-8
Cryptal Epithelium, 30mins	9-10
Villus Lamina Propria, 30mins	11-12
Lamina Propria, 30mins	13-14
Muscle Externa, 30mins	15-16
Upper Villus, 6Hrs	17-18
Lower Villus, 6Hrs	19-20
Cryptal Epithelium, 6Hrs	21-22
Villus Lamina Propria, 6Hrs	23-24
Lamina Propria, 6Hrs	25-26
Muscle Externa, 6Hrs	27-28
Upper Villus, 12Hrs	29-30
Lower Villus, 12Hrs	31-32
Cryptal Epithelium, 12Hrs	33-34
Villus Lamina Propria, 12Hrs	35-36
Lamina Propria, 12Hrs	37-38
Muscle Externa, 12Hrs	39-40
Upper Villus, 24Hrs	41-42
Lower Villus, 24Hrs	43-44
Cryptal Epithelium, 24Hrs	45-46
Villus Lamina Propria, 24Hrs	47-48
Lamina Propria, 24Hrs	49-50
Muscle Externa, 24Hrs	51-52

Upper Villus, 72Hrs	53-54
Lower Villus, 72Hrs	55-56
Cryptal Epithelium, 72Hrs	57-58
Villus Lamina Propria, 72Hrs	59-60
Lamina Propria, 72Hrs	61-62
Muscle Externa, 72Hrs	63-64

**Part 2. AgNOR Number/Nucleus v Post Irradiation Time,**  
**5Gy, 10Gy, 15Gy, 20 Gy**

Upper Villus, 30mins	pages 66-67
Lower Villus, 30mins	68-69
Cryptal Epithelium, 30mins	70-71
Villus Lamina Propria, 30mins	72-73
Lamina Propria, 30mins	74-75
Muscle Externa, 30mins	76-77
Upper Villus, 6Hrs	78-79
Lower Villus, 6Hrs	80-81
Cryptal Epithelium, 6Hrs	82-83
Villus Lamina Propria, 6Hrs	84-85
Lamina Propria, 6Hrs	86-87
Muscle Externa, 6Hrs	88-89
Upper Villus, 12Hrs	90-91
Lower Villus, 12Hrs	92-93
Cryptal Epithelium, 12Hrs	94-95
Villus Lamina Propria, 12Hrs	96-97
Lamina Propria, 12Hrs	98-99
Muscle Externa, 12Hrs	100-101
Upper Villus, 24Hrs	102-103
Lower Villus, 24Hrs	104-105
Cryptal Epithelium, 24Hrs	106-107
Villus Lamina Propria, 24Hrs	108-109
Lamina Propria, 24Hrs	110-111
Muscle Externa, 24Hrs	112-113

Upper Villus, 72Hrs	114-115
Lower Villus, 72Hrs	116-117
Cryptal Epithelium, 72Hrs	118-119
Villus Lamina Propria, 72Hrs	120-121
Lamina Propria, 72Hrs	122-123
Muscle Externa, 72Hrs	124-125

**Part 1.**

**AgNOR Area/Nucleus v Post Irradiation Time**

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.038	.008	3.233
Within groups	46	.108	.002	p = .0139
Total	51	.146		

Model II estimate of between component variance = .001

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.446	.044	.009
A 5Gy	6	.49	.042	.017
B 10Gy	6	.453	.027	.011
C 15Gy	6	.435	.031	.013
D 20Gy	6	.523	.095	.039

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	.465	.024	.012



One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.044	.045	.781	1.976
Control vs. B 10Gy	-.007	.045	.02	.32
Control vs. C 15Gy	.011	.045	.052	.508
Control vs. D 20Gy	-.077	.045*	2.423*	3.481
Control vs. Sham	-.019	.053	.102	.716

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	.037	.056	.343	1.309
A 5Gy vs. C 15Gy	.055	.056	.771	1.963
A 5Gy vs. D 20Gy	-.033	.056	.283	1.19
A 5Gy vs. Sham	.025	.063	.127	.798
B 10Gy vs. C 15Gy	.018	.056	.086	.654

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.07	.056*	1.249	2.499
B 10Gy vs. Sham	-.012	.063	.028	.373
C 15Gy vs. D 20Gy	-.088	.056*	1.989	3.153
C 15Gy vs. Sham	-.03	.063	.184	.958
D 20Gy vs. Sham	.058	.063	.694	1.863

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.019	.004	2.38
Within groups	46	.072	.002	p = .0531
Total	51	.091		

Model II estimate of between component variance = 2.858E-4

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.539	.04	.008
A 5Gy	6	.502	.048	.019
B 10Gy	6	.568	.04	.016
C 15Gy	6	.533	.026	.011
D 20Gy	6	.522	.05	.02

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.502	.01	.005

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	.037	.036*	.842	2.052
Control vs. B 10Gy	-.03	.036	.536	1.637
Control vs. C 15Gy	.005	.036	.018	.3
Control vs. D 20Gy	.017	.036	.179	.945
Control vs. Sham	.036	.043	.575	1.695

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	-.067	.046*	1.701	2.916
A 5Gy vs. C 15Gy	-.032	.046	.384	1.385
A 5Gy vs. D 20Gy	-.02	.046	.153	.875
A 5Gy vs. Sham	-.001	.051	2.126E-4	.033
B 10Gy vs. C 15Gy	.035	.046	.469	1.531

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	.047	.046*	.833	2.041
B 10Gy vs. Sham	.066	.051*	1.327	2.576
C 15Gy vs. D 20Gy	.012	.046	.052	.51
C 15Gy vs. Sham	.031	.051	.291	1.206
D 20Gy vs. Sham	.019	.051	.112	.75

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	1.231	.246	73.533
Within groups	46	.154	.003	p = .0001
Total	51	1.384		

Model II estimate of between component variance = .032

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.224	.05	.01
A 5Gy	6	1.273	.025	.01
B 10Gy	6	1.372	.038	.015
C 15Gy	6	1.342	.035	.014
D 20Gy	6	1.72	.119	.049

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.253	.057	.029

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.049	.053	.693	1.862
Control vs. B 10Gy	-.147	.053*	6.24*	5.586
Control vs. C 15Gy	-.118	.053*	3.96*	4.45
Control vs. D 20Gy	-.496	.053*	70.518*	18.777
Control vs. Sham	-.028	.063	.164	.907

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	-.098	.067*	1.733	2.944
A 5Gy vs. C 15Gy	-.068	.067*	.837	2.046
A 5Gy vs. D 20Gy	-.447	.067*	35.766*	13.373
A 5Gy vs. Sham	.021	.075	.062	.558
B 10Gy vs. C 15Gy	.03	.067	.161	.898

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.348	.067*	21.752*	10.429
B 10Gy vs. Sham	.119	.075*	2.037	3.191
C 15Gy vs. D 20Gy	-.378	.067*	25.66*	11.327
C 15Gy vs. Sham	.089	.075*	1.14	2.388
D 20Gy vs. Sham	.467	.075*	31.344*	12.519

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.021	.004	1.154
Within groups	46	.171	.004	p = .3459
Total	51	.192		

Model II estimate of between component variance = 7.567E-5

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.55	.066	.014
A 5Gy	6	.525	.033	.013
B 10Gy	6	.54	.042	.017
C 15Gy	6	.5	.045	.018
D 20Gy	6	.503	.095	.039

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.512	.013	.006

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Control vs. A 5Gy	.025	.056	.167	.914
Control vs. B 10Gy	.01	.056	.028	.375
Control vs. C 15Gy	.05	.056	.658	1.813
Control vs. D 20Gy	.047	.056	.574	1.694
Control vs. Sham	.038	.066	.266	1.153

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
A 5Gy vs. B 10Gy	-.015	.071	.036	.427
A 5Gy vs. C 15Gy	.025	.071	.101	.711
A 5Gy vs. D 20Gy	.022	.071	.076	.616
A 5Gy vs. Sham	.012	.079	.02	.318
B 10Gy vs. C 15Gy	.04	.071	.259	1.137

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
B 10Gy vs. D 20Gy	.037	.071	.217	1.043
B 10Gy vs. Sham	.028	.079	.098	.699
C 15Gy vs. D 20Gy	-.003	.071	.002	.095
C 15Gy vs. Sham	-.012	.079	.02	.318
D 20Gy vs. Sham	-.009	.079	.011	.233

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.102	.02	9.19
Within groups	46	.102	.002	p = .0001
Total	51	.205		

Model II estimate of between component variance = .002

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.511	.051	.01
A 5Gy	6	.56	.017	.007
B 10Gy	6	.51	.055	.023
C 15Gy	6	.415	.06	.025
D 20Gy	6	.585	.036	.015

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	.507	.024	.012



One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.049	.043*	1.043	2.284
Control vs. B 10Gy	.001	.043	2.996E-4	.039
Control vs. C 15Gy	.096	.043*	3.962*	4.451
Control vs. D 20Gy	-.074	.043*	2.373	3.445
Control vs. Sham	.003	.051	.003	.131

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	.05	.055	.674	1.836
A 5Gy vs. C 15Gy	.145	.055*	5.669*	5.324
A 5Gy vs. D 20Gy	-.025	.055	.169	.918
A 5Gy vs. Sham	.053	.061	.595	1.724
B 10Gy vs. C 15Gy	.095	.055*	2.434*	3.488

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.075	.055*	1.517	2.754
B 10Gy vs. Sham	.003	.061	.001	.082
C 15Gy vs. D 20Gy	-.17	.055*	7.793*	6.242
C 15Gy vs. Sham	-.093	.061*	1.846	3.038
D 20Gy vs. Sham	.077	.061*	1.296	2.545

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.094	.019	12.693
Within groups	46	.068	.001	p = .0001
Total	51	.161		

Model II estimate of between component variance = .002

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.527	.035	.007
A 5Gy	6	.54	.025	.01
B 10Gy	6	.553	.047	.019
C 15Gy	6	.607	.058	.023
D 20Gy	6	.435	.034	.014

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.527	.029	.014

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.013	.035	.116	.761
Control vs. B 10Gy	-.027	.035	.463	1.522
Control vs. C 15Gy	-.08	.035*	4.167*	4.565
Control vs. D 20Gy	.092	.035*	5.471*	5.23
Control vs. Sham	-.001	.042	3.230E-4	.04

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	-.013	.045	.072	.601
A 5Gy vs. C 15Gy	-.067	.045*	1.809	3.007
A 5Gy vs. D 20Gy	.105	.045*	4.486*	4.736
A 5Gy vs. Sham	.013	.05	.051	.504
B 10Gy vs. C 15Gy	-.053	.045*	1.157	2.406

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	.118	.045*	5.698*	5.338
B 10Gy vs. Sham	.026	.05	.217	1.042
C 15Gy vs. D 20Gy	.172	.045*	11.992*	7.743
C 15Gy vs. Sham	.079	.05*	2.04	3.194
D 20Gy vs. Sham	-.092	.05*	2.785*	3.732

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.009	.002	1.171
Within groups	46	.074	.002	p = .3377
Total	51	.083		

Model II estimate of between component variance = 3.637E-5

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.446	.044	.009
A 5Gy	6	.448	.036	.015
B 10Gy	6	.448	.026	.011
C 15Gy	6	.47	.033	.014
D 20Gy	6	.418	.05	.02

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	.465	.024	.012

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.002	.037	.003	.114
Control vs. B 10Gy	-.002	.037	.003	.114
Control vs. C 15Gy	-.024	.037	.337	1.298
Control vs. D 20Gy	.028	.037	.466	1.526
Control vs. Sham	-.019	.044	.15	.866

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	0	.047	0	0
A 5Gy vs. C 15Gy	-.022	.047	.175	.936
A 5Gy vs. D 20Gy	.03	.047	.336	1.296
A 5Gy vs. Sham	-.017	.052	.083	.644
B 10Gy vs. C 15Gy	-.022	.047	.175	.936

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	.03	.047	.336	1.296
B 10Gy vs. Sham	-.017	.052	.083	.644
C 15Gy vs. D 20Gy	.052	.047*	.997	2.232
C 15Gy vs. Sham	.005	.052	.007	.193
D 20Gy vs. Sham	-.047	.052	.651	1.804

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.223	.045	29.741
Within groups	46	.069	.001	p = .0001
Total	51	.291		

Model II estimate of between component variance = .006

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.539	.04	.008
A 5Gy	6	.47	.034	.014
B 10Gy	6	.662	.033	.014
C 15Gy	6	.412	.054	.022
D 20Gy	6	.567	.034	.014

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	.502	.01	.005

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	.069	.036*	3.032*	3.894
Control vs. B 10Gy	-.123	.036*	9.692*	6.961
Control vs. C 15Gy	.127	.036*	10.361*	7.197
Control vs. D 20Gy	-.028	.036	.5	1.581
Control vs. Sham	.036	.042	.602	1.735

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	-.192	.045*	14.729*	8.582
A 5Gy vs. C 15Gy	.058	.045*	1.364	2.612
A 5Gy vs. D 20Gy	-.097	.045*	3.747*	4.328
A 5Gy vs. Sham	-.032	.05	.339	1.302
B 10Gy vs. C 15Gy	.25	.045*	25.059*	11.194

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	.095	.045*	3.619*	4.254
B 10Gy vs. Sham	.159	.05*	8.126*	6.374
C 15Gy vs. D 20Gy	-.155	.045*	9.633*	6.94
C 15Gy vs. Sham	-.091	.05*	2.646*	3.638
D 20Gy vs. Sham	.064	.05*	1.321	2.57

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	7.778	1.556	157.951
Within groups	46	.453	.01	p = .0001
Total	51	8.231		

Model II estimate of between component variance = .204

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.224	.05	.01
A 5Gy	6	1.43	.05	.02
B 10Gy	6	1.457	.092	.038
C 15Gy	6	2.09	.054	.022
D 20Gy	6	2.272	.252	.103

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.253	.057	.029



One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.206	.091*	4.146*	4.553
Control vs. B 10Gy	-.233	.091*	5.288*	5.142
Control vs. C 15Gy	-.866	.091*	73.142*	19.124
Control vs. D 20Gy	-1.048	.091*	107.037*	23.134
Control vs. Sham	-.029	.108	.058	.536

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	-.027	.115	.043	.465
A 5Gy vs. C 15Gy	-.66	.115*	26.537*	11.519
A 5Gy vs. D 20Gy	-.842	.115*	43.156*	14.689
A 5Gy vs. Sham	.177	.129*	1.535	2.771
B 10Gy vs. C 15Gy	-.633	.115*	24.436*	11.053

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.815	.115*	40.464*	14.224
B 10Gy vs. Sham	.204	.129*	2.032	3.187
C 15Gy vs. D 20Gy	-.182	.115*	2.011	3.171
C 15Gy vs. Sham	.837	.129*	34.184*	13.074
D 20Gy vs. Sham	1.019	.129*	50.622*	15.909

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.166	.033	4.231
Within groups	46	.361	.008	p = .003
Total	51	.527		

Model II estimate of between component variance = .003

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.55	.066	.014
A 5Gy	6	.495	.047	.019
B 10Gy	6	.45	.144	.059
C 15Gy	6	.508	.067	.027
D 20Gy	6	.665	.156	.064

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	.512	.013	.006

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	.055	.081	.376	1.371
Control vs. B 10Gy	.1	.081*	1.234	2.484
Control vs. C 15Gy	.042	.081	.217	1.041
Control vs. D 20Gy	-.115	.081*	1.607	2.835
Control vs. Sham	.038	.096	.126	.793

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	.045	.103	.155	.88
A 5Gy vs. C 15Gy	-.013	.103	.014	.261
A 5Gy vs. D 20Gy	-.17	.103*	2.211	3.325
A 5Gy vs. Sham	-.017	.115	.019	.306
B 10Gy vs. C 15Gy	-.058	.103	.26	1.141

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.215	.103*	3.537*	4.205
B 10Gy vs. Sham	-.062	.115	.239	1.093
C 15Gy vs. D 20Gy	-.157	.103*	1.878	3.064
C 15Gy vs. Sham	-.004	.115	.001	.073
D 20Gy vs. Sham	.153	.115*	1.423	2.668

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.034	.007	2.454
Within groups	46	.129	.003	p = .0472
Total	51	.163		

Model II estimate of between component variance = .001

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.511	.051	.01
A 5Gy	6	.51	.053	.022
B 10Gy	6	.528	.073	.03
C 15Gy	6	.44	.048	.02
D 20Gy	6	.473	.055	.022

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	.507	.024	.012

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	.001	.049	2.583E-4	.035
Control vs. B 10Gy	-.017	.049	.105	.725
Control vs. C 15Gy	.071	.049*	1.722	2.934
Control vs. D 20Gy	.038	.049	.483	1.553
Control vs. Sham	.003	.057	.003	.117

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	-.018	.061	.072	.6
A 5Gy vs. C 15Gy	.07	.061*	1.051	2.292
A 5Gy vs. D 20Gy	.037	.061	.288	1.201
A 5Gy vs. Sham	.003	.069	.001	.073
B 10Gy vs. C 15Gy	.088	.061*	1.674	2.893

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	.055	.061	.649	1.801
B 10Gy vs. Sham	.021	.069	.074	.61
C 15Gy vs. D 20Gy	-.033	.061	.238	1.092
C 15Gy vs. Sham	-.068	.069	.782	1.977
D 20Gy vs. Sham	-.034	.069	.2	1.001

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.042	.008	4.321
Within groups	46	.09	.002	p = .0026
Total	51	.132		

Model II estimate of between component variance = .001

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.527	.035	.007
A 5Gy	6	.602	.063	.026
B 10Gy	6	.568	.03	.012
C 15Gy	6	.57	.067	.027
D 20Gy	6	.583	.048	.02

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.527	.029	.014

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.075	.041*	2.775*	3.725
Control vs. B 10Gy	-.042	.041*	.857	2.069
Control vs. C 15Gy	-.043	.041*	.926	2.152
Control vs. D 20Gy	-.057	.041*	1.584	2.814
Control vs. Sham	-.001	.048	2.447E-4	.035

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	.033	.051	.343	1.309
A 5Gy vs. C 15Gy	.032	.051	.309	1.243
A 5Gy vs. D 20Gy	.018	.051	.104	.72
A 5Gy vs. Sham	.074	.057*	1.357	2.605
B 10Gy vs. C 15Gy	-.002	.051	.001	.065

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison	Mean Diff	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.015	.051	.069	.589
B 10Gy vs. Sham	.041	.057	.411	1.434
C 15Gy vs. D 20Gy	-.013	.051	.055	.524
C 15Gy vs. Sham	.043	.057	.446	1.493
D 20Gy vs. Sham	.056	.057	.769	1.961

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.081	.016	3.808
Within groups	45	.191	.004	p = .0058
Total	50	.271		

Model II estimate of between component variance = .002

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.446	.044	.009
A 5Gy	6	.445	.029	.012
B 10Gy	5	.376	.047	.021
C 15Gy	6	.515	.068	.028
D 20Gy	6	.52	.148	.06

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.465	.024	.012



One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	.001	.06	3.540E-4	.042
Control vs. B 10Gy	.07	.064*	.964	2.195
Control vs. C 15Gy	-.069	.06*	1.071	2.314
Control vs. D 20Gy	-.074	.06*	1.232	2.482
Control vs. Sham	-.019	.071	.057	.533

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	.069	.079	.613	1.751
A 5Gy vs. C 15Gy	-.07	.076	.694	1.863
A 5Gy vs. D 20Gy	-.075	.076	.796	1.996
A 5Gy vs. Sham	-.02	.085	.045	.476
B 10Gy vs. C 15Gy	-.139	.079*	2.487*	3.526

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison:	Mean Diff:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.144	.079*	2.669*	3.653
B 10Gy vs. Sham	-.089	.088*	.831	2.038
C 15Gy vs. D 20Gy	-.005	.076	.004	.133
C 15Gy vs. Sham	.05	.085	.283	1.19
D 20Gy vs. Sham	.055	.085	.343	1.309

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.1	.02	7.381
Within groups	45	.122	.003	p = .0001
Total	50	.222		

Model II estimate of between component variance = .002

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.539	.04	.008
A 5Gy	6	.527	.051	.021
B 10Gy	5	.528	.094	.042
C 15Gy	6	.463	.082	.034
D 20Gy	6	.638	.021	.009

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	.502	.01	.005

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	.012	.048	.052	.509
Control vs. B 10Gy	.011	.052	.035	.42
Control vs. C 15Gy	.075	.048*	2.015	3.174
Control vs. D 20Gy	-.1	.048*	3.512*	4.191
Control vs. Sham	.036	.057	.332	1.289

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	-.001	.063	3.578E-4	.042
A 5Gy vs. C 15Gy	.063	.061*	.888	2.107
A 5Gy vs. D 20Gy	-.112	.061*	2.76*	3.715
A 5Gy vs. Sham	.024	.068	.103	.719
B 10Gy vs. C 15Gy	.065	.063*	.842	2.051

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.11	.063*	2.45*	3.5
B 10Gy vs. Sham	.026	.07	.107	.73
C 15Gy vs. D 20Gy	-.175	.061*	6.779*	5.822
C 15Gy vs. Sham	-.039	.068	.272	1.165
D 20Gy vs. Sham	.136	.068*	3.268*	4.042

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	12.759	2.552	1131.587
Within groups	45	.101	.002	p = .0001
Total	50	12.86		

Model II estimate of between component variance = .347

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group	Count	Mean	Std. Dev.:	Std. Error:
Control	24	1.224	.05	.01
A 5Gy	6	1.415	.038	.015
B 10Gy	5	1.824	.051	.023
C 15Gy	6	2.392	.023	.009
D 20Gy	6	2.482	.054	.022

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group	Count	Mean	Std. Dev.:	Std. Error:
Sham	4	1.253	.057	.029

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.191	.044*	15.572*	8.824
Control vs. B 10Gy	-.6	.047*	132.231*	25.713
Control vs. C 15Gy	-1.166	.044*	580.7*	53.884
Control vs. D 20Gy	-1.258	.044*	673.646*	58.036
Control vs. Sham	-.029	.052	.251	1.121

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	-.409	.058*	40.463*	14.224
A 5Gy vs. C 15Gy	-.977	.055*	253.805*	35.623
A 5Gy vs. D 20Gy	-1.067	.055*	302.737*	38.906
A 5Gy vs. Sham	.162	.062*	5.621*	5.301
B 10Gy vs. C 15Gy	-.568	.058*	77.948*	19.742

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.658	.058*	104.623*	22.872
B 10Gy vs. Sham	.571	.064*	64.373*	17.941
C 15Gy vs. D 20Gy	-.09	.055*	2.155	3.283
C 15Gy vs. Sham	1.139	.062*	276.231*	37.164
D 20Gy vs. Sham	1.229	.062*	321.603*	40.1

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.071	.014	4.683
Within groups	45	.136	.003	p = .0016
Total	50	.207		

Model II estimate of between component variance = .002

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.55	.066	.014
A 5Gy	6	.51	.06	.025
B 10Gy	5	.54	.022	.01
C 15Gy	6	.432	.038	.015
D 20Gy	6	.528	.038	.016

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.512	.013	.006

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	.04	.051	.518	1.609
Control vs. B 10Gy	.01	.054	.03	.385
Control vs. C 15Gy	.119	.051*	4.468*	4.727
Control vs. D 20Gy	.022	.051	.155	.879
Control vs. Sham	.038	.06	.325	1.276

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	-.03	.067	.162	.9
A 5Gy vs. C 15Gy	.078	.064*	1.215	2.465
A 5Gy vs. D 20Gy	-.018	.064	.067	.577
A 5Gy vs. Sham	-.002	.072	.001	.07
B 10Gy vs. C 15Gy	.108	.067*	2.113	3.25

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	.012	.067	.025	.35
B 10Gy vs. Sham	.028	.074	.111	.745
C 15Gy vs. D 20Gy	-.097	.064*	1.851	3.042
C 15Gy vs. Sham	-.081	.072*	1.035	2.275
D 20Gy vs. Sham	.016	.072	.04	.446

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.025	.005	1.935
Within groups	45	114	.003	p = .1071
Total	50	138		

Model II estimate of between component variance = 3.220E-4

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	509	.05	.01
A 5Gy	6	462	.036	.015
B 10Gy	5	536	.024	.011
C 15Gy	6	482	.09	.037
D 20Gy	6	533	.031	.013

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	507	.024	.012



One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Control vs. A 5Gy	.047	.046*	.84	2.05
Control vs. B 10Gy	-.027	.05	.243	1.102
Control vs. C 15Gy	.027	.046	.278	1.179
Control vs. D 20Gy	-.025	.046	.229	1.07
Control vs. Sham	.001	.055	4.231E-4	.046

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
A 5Gy vs. B 10Gy	-.074	.061*	1.19	2.439
A 5Gy vs. C 15Gy	-.02	.059	.095	.688
A 5Gy vs. D 20Gy	-.072	.059*	1.217	2.467
A 5Gy vs. Sham	-.046	.065	.398	1.411
B 10Gy vs. C 15Gy	.054	.061	.636	1.783

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
B 10Gy vs. D 20Gy	.003	.061	.002	.088
B 10Gy vs. Sham	.028	.068	.143	.844
C 15Gy vs. D 20Gy	-.052	.059	.632	1.778
C 15Gy vs. Sham	-.026	.065	.126	.795
D 20Gy vs. Sham	.026	.065	.126	.795

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.144	.029	5.91
Within groups	45	.219	.005	p = .0003
Total	50	.362		

Model II estimate of between component variance = .003

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.527	.035	.007
A 5Gy	6	.648	.131	.053
B 10Gy	5	.516	.073	.032
C 15Gy	6	.553	.126	.051
D 20Gy	6	.657	.019	.008

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count	Mean	Std. Dev.:	Std. Error:
Sham	4	.527	.029	.014

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.122	.064*	2.924*	3.824
Control vs. B 10Gy	.011	.069	.019	.311
Control vs. C 15Gy	-.027	.064	.14	.838
Control vs. D 20Gy	-.13	.064*	3.339*	4.086
Control vs. Sham	-.001	.076	9.799E-5	.022

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	.132	.085*	1.966	3.135
A 5Gy vs. C 15Gy	.095	.081*	1.114	2.36
A 5Gy vs. D 20Gy	-.008	.081	.009	.207
A 5Gy vs. Sham	.121	.091*	1.442	2.685
B 10Gy vs. C 15Gy	-.037	.085	.156	.884

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.141	.085*	2.221	3.332
B 10Gy vs. Sham	-.011	.094	.012	.246
C 15Gy vs. D 20Gy	-.103	.081*	1.318	2.567
C 15Gy vs. Sham	.026	.091	.066	.574
D 20Gy vs. Sham	.129	.091*	1.648	2.871

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.096	.019	11.312
Within groups	46	.078	.002	p = .0001
Total	51	.174		

Model II estimate of between component variance = .002

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.446	.044	.009
A 5Gy	6	.5	.019	.008
B 10Gy	6	.377	.048	.02
C 15Gy	6	.488	.046	.019
D 20Gy	6	.537	.04	.016

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.465	.024	.012

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.054	.038*	1.635	2.86
Control vs. B 10Gy	.07	.038*	2.741*	3.702
Control vs. C 15Gy	-.042	.038*	1.003	2.239
Control vs. D 20Gy	-.09	.038*	4.628*	4.81
Control vs. Sham	-.019	.045	.142	.843

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	.123	.048*	5.382*	5.187
A 5Gy vs. C 15Gy	.012	.048	.048	.491
A 5Gy vs. D 20Gy	-.037	.048	.476	1.542
A 5Gy vs. Sham	.035	.054	.347	1.317
B 10Gy vs. C 15Gy	-.112	.048*	4.412*	4.697

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.16	.048*	9.057*	6.729
B 10Gy vs. Sham	-.088	.054*	2.208	3.323
C 15Gy vs. D 20Gy	-.048	.048*	.826	2.033
C 15Gy vs. Sham	.023	.054	.154	.878
D 20Gy vs. Sham	.072	.054*	1.454	2.696

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.221	.044	27.615
Within groups	46	.074	.002	p = .0001
Total	51	.294		

Model II estimate of between component variance = .006

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.539	.04	.008
A 5Gy	6	.522	.048	.02
B 10Gy	6	.622	.046	.019
C 15Gy	6	.392	.051	.021
D 20Gy	6	.623	.016	.007

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.502	.01	.005

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	.017	.037	.175	.936
Control vs. B 10Gy	-.083	.037*	4.13*	4.544
Control vs. C 15Gy	.147	.037*	12.994*	8.06
Control vs. D 20Gy	-.085	.037*	4.297*	4.635
Control vs. Sham	.036	.043	.564	1.679

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	- .1	.046*	3.754*	4.332
A 5Gy vs. C 15Gy	.13	.046*	6.344*	5.632
A 5Gy vs. D 20Gy	- .102	.046*	3.88*	4.405
A 5Gy vs. Sham	.019	.052	.11	.743
B 10Gy vs. C 15Gy	.23	.046*	19.859*	9.965

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	- .002	.046	.001	.072
B 10Gy vs. Sham	.119	.052*	4.265*	4.618
C 15Gy vs. D 20Gy	- .232	.046*	20.148*	10.037
C 15Gy vs. Sham	- .111	.052*	3.689*	4.295
D 20Gy vs. Sham	.121	.052*	4.385*	4.682

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	14.877	2.975	1102.376
Within groups	46	.124	.003	p = .0001
Total	51	15.001		

Model II estimate of between component variance = .393

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.224	.05	.01
A 5Gy	6	1.305	.045	.019
B 10Gy	6	1.952	.083	.034
C 15Gy	6	2.357	.044	.018
D 20Gy	6	2.625	.024	.01

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.253	.057	.029



One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.081	.048*	2.348	3.426
Control vs. B 10Gy	-.728	.048*	188.465*	30.697
Control vs. C 15Gy	-1.133	.048*	456.524*	47.777
Control vs. D 20Gy	-1.401	.048*	698.392*	59.093
Control vs. Sham	-.029	.056	.21	1.025

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	-.647	.06*	92.963*	21.56
A 5Gy vs. C 15Gy	-1.052	.06*	245.869*	35.062
A 5Gy vs. D 20Gy	-1.32	.06*	387.343*	44.008
A 5Gy vs. Sham	.052	.068	.49	1.566
B 10Gy vs. C 15Gy	-.405	.06*	36.463*	13.502

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.673	.06*	100.788*	22.449
B 10Gy vs. Sham	.699	.068*	86.936*	20.849
C 15Gy vs. D 20Gy	-.268	.06*	16.007*	8.946
C 15Gy vs. Sham	1.104	.068*	216.824*	32.926
D 20Gy vs. Sham	1.372	.068*	335.014*	40.928

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.133	.027	7.973
Within groups	46	.154	.003	p = .0001
Total	51	.287		

Model II estimate of between component variance = .003

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.55	.066	.014
A 5Gy	6	.505	.055	.022
B 10Gy	5	.507	.054	.022
C 15Gy	6	.393	.024	.01
D 20Gy	6	.565	.062	.025

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.512	.013	.006

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	.045	.053	.592	1.721
Control vs. B 10Gy	.044	.053	.55	1.658
Control vs. C 15Gy	.157	.053*	7.088*	5.953
Control vs. D 20Gy	-.015	.053	.061	.553
Control vs. Sham	.038	.063	.295	1.214

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	-.002	.067	4.987E-4	.05
A 5Gy vs. C 15Gy	.112	.067*	2.239	3.346
A 5Gy vs. D 20Gy	-.06	.067	.646	1.798
A 5Gy vs. Sham	-.007	.075	.008	.201
B 10Gy vs. C 15Gy	.113	.067*	2.306	3.396

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.058	.067	.611	1.748
B 10Gy vs. Sham	-.006	.075	.005	.156
C 15Gy vs. D 20Gy	-.172	.067*	5.291*	5.143
C 15Gy vs. Sham	-.119	.075*	2.04	3.193
D 20Gy vs. Sham	.053	.075	.396	1.407

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.12	.024	6.939
Within groups	46	.159	.003	p = .0001
Total	51	.279		

Model II estimate of between component variance = .003

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Contro!	24	.511	.051	.01
A 5Gy	6	.515	.104	.042
B 10Gy	6	.477	.057	.023
C 15Gy	6	.422	.056	.023
D 20Gy	6	.615	.048	.02

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	.507	.024	.012

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.004	.054	.005	.155
Control vs. B 10Gy	.034	.054	.325	1.274
Control vs. C 15Gy	.089	.054*	2.211	3.325
Control vs. D 20Gy	-.104	.054*	3.018*	3.885
Control vs. Sham	.003	.064	.002	.105

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	.038	.068	.255	1.13
A 5Gy vs. C 15Gy	.093	.068*	1.514	2.752
A 5Gy vs. D 20Gy	-.1	.068*	1.738	2.948
A 5Gy vs. Sham	.007	.076	.008	.198
B 10Gy vs. C 15Gy	.055	.068	.526	1.621

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.138	.068*	3.326*	4.078
B 10Gy vs. Sham	-.031	.076	.132	.813
C 15Gy vs. D 20Gy	-.193	.068*	6.497*	5.7
C 15Gy vs. Sham	-.086	.076*	1.025	2.263
D 20Gy vs. Sham	.108	.076*	1.607	2.835

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.199	.04	22.372
Within groups	46	.082	.002	p = .0001
Total	51	.281		

Model II estimate of between component variance = .005

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.527	.035	.007
A 5Gy	6	.442	.031	.013
B 10Gy	6	.498	.046	.019
C 15Gy	6	.435	.081	.033
D 20Gy	6	.658	.021	.009

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count	Mean	Std. Dev.:	Std. Error:
Sham	4	.527	.029	.014

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison	Mean Diff	Fisher PLSD	Scheffe F-test:	Dunnett t:
Control vs A 5Gy	.085	.039*	3.9*	4.416
Control vs B 10Gy	.028	.039	.433	1.472
Control vs C 15Gy	.092	.039*	4.536*	4.762
Control vs D 20Gy	-.132	.039*	9.358*	6.84
Control vs Sham	-.001	.046	2.678E-4	.037

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison	Mean Diff	Fisher PLSD	Scheffe F-test:	Dunnett t:
A 5Gy vs B 10Gy	-.057	.049*	1.083	2.327
A 5Gy vs C 15Gy	.007	.049	.015	.274
A 5Gy vs D 20Gy	-.217	.049*	15.838*	8.899
A 5Gy vs Sham	-.086	.055*	1.988	3.153
B 10Gy vs C 15Gy	.063	.049*	1.353	2.601

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison	Mean Diff	Fisher PLSD	Scheffe F-test:	Dunnett t:
B 10Gy vs D 20Gy	-.16	.049*	8.637*	6.571
B 10Gy vs Sham	-.029	.055	.23	1.071
C 15Gy vs D 20Gy	-.223	.049*	16.827*	9.173
C 15Gy vs Sham	-.093	.055*	2.309	3.398
D 20Gy vs Sham	.131	.055*	4.62*	4.806

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.073	.015	4.386
Within groups	42	.139	.003	p = .0027
Total	47	.212		

Model II estimate of between component variance = .002

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.446	.044	.009
A 5Gy	6	.412	.074	.03
B 10Gy	6	.373	.101	.041
C 15Gy	5	.388	.056	.025
D 20Gy	3	.533	.032	.019

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Group:	Count	Mean	Std. Dev.:	Std. Error
Sham	4	.465	.024	.012



One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison	Mean Diff	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs A 5Gy	.035	.053	.346	1.316
Control vs B 10Gy	.073	.053*	1.54	2.775
Control vs C 15Gy	.058	.057*	.847	2.058
Control vs D 20Gy	-.087	.071*	1.22	2.47
Control vs Sham	-.019	.063	.073	.603

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison	Mean Diff	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs B 10Gy	.038	.067	.266	1.153
A 5Gy vs C 15Gy	.024	.07	.092	.679
A 5Gy vs D 20Gy	-.122	.082*	1.786	2.988
A 5Gy vs Sham	-.053	.075	.412	1.435
B 10Gy vs C 15Gy	-.015	.07	.035	.421

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villus

Comparison	Mean Diff	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs D 20Gy	-.16	.082*	3.089*	3.93
B 10Gy vs Sham	-.092	.075*	1.217	2.467
C 15Gy vs D 20Gy	-.145	.085*	2.389	3.456
C 15Gy vs Sham	-.077	.078	.795	1.994
D 20Gy vs Sham	.068	.089	.483	1.554

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Analysis of Variance Table

Source	DF	Sum Squares	Mean Square	F-test
Between groups	5	.064	.013	7.35
Within groups	42	.073	.002	p = .0001
Total	47	.137		

Model II estimate of between component variance = .002

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Group	Count	Mean	Std. Dev.	Std. Error
Control	24	5.43	.04	.008
A 5Gy	6	5.13	.055	.022
B 10Gy	6	5.37	.022	.009
C 15Gy	5	5.134	.059	.027
D 20Gy	3	5.87	.049	.028

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Group	Count	Mean	Std. Dev.	Std. Error
Sham	4	5.02	.01	.005

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	.03	.038	.482	1.552
Control vs. B 10Gy	.006	.038	.022	.328
Control vs. C 15Gy	.109	.041*	5.631*	5.306
Control vs. D 20Gy	-.044	.052	.586	1.711
Control vs. Sham	.04	.046	.642	1.792

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	-.023	.049	.187	.968
A 5Gy vs. C 15Gy	.079	.051*	1.969	3.138
A 5Gy vs. D 20Gy	-.073	.06*	1.234	2.484
A 5Gy vs. Sham	.011	.054	.032	.402
B 10Gy vs. C 15Gy	.103	.051*	3.298*	4.061

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : Lower Villus

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.05	.06	.574	1.693
B 10Gy vs. Sham	.034	.054	.321	1.268
C 15Gy vs. D 20Gy	-.153	.062*	5.013*	5.007
C 15Gy vs. Sham	-.068	.057*	1.196	2.446
D 20Gy vs. Sham	.084	.064*	1.393	2.639

\* Significant at 95%

One Factor ANOVA X 1 : Column 1 Y 3 : Crypt

Analysis of Variance Table

Source	DF	Sum Squares	Mean Square	F-test
Between groups	5	11.654	2.331	550.737
Within groups	42	.178	.004	p = .0001
Total	47	11.832		

Model II estimate of between component variance = .348

One Factor ANOVA X 1 : Column 1 Y 3 : Crypt

Group	Count	Mean	Std. Dev.	Std. Error
Control	24	1.224	.05	.01
A 5Gy	6	1.245	.019	.008
B 10Gy	6	1.892	.138	.056
C 15Gy	5	1.553	.054	.024
D 20Gy	3	1.45	.036	.021

One Factor ANOVA X 1 : Column 1 Y 3 : Crypt

Group	Count	Mean	Std. Dev.	Std. Error
Sham	4	1.253	.057	.029

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.021	.06	.102	.716
Control vs. B 10Gy	-.668	.06*	101.194*	22.494
Control vs. C 15Gy	-1.334	.065*	348.117*	41.72
Control vs. D 20Gy	-1.226	.08*	189.494*	30.781
Control vs. Sham	-.029	.071	.134	.818

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy*	-.647	.076*	59.286*	17.217
A 5Gy vs. C 15Gy	-1.313	.079*	222.191*	33.331
A 5Gy vs. D 20Gy	-1.205	.093*	137.237*	26.195
A 5Gy vs. Sham	-.008	.085	.006	.179
B 10Gy vs. C 15Gy	-.666	.079*	57.224*	16.915

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.558	.093*	29.464*	12.137
B 10Gy vs. Sham	.639	.085*	46.335*	15.221
C 15Gy vs. D 20Gy	.108	.096*	1.034	2.273
C 15Gy vs. Sham	1.306	.088*	178.982*	29.915
D 20Gy vs. Sham	1.197	1*	116.172*	24.101

\* Significant at 95%

One Factor ANOVA X 1 : Column 1 Y 4 : VIII Lam Prop

Analysis of Variance Table

Source	DF	Sum Squares:	Mean Square:	F-test:
Between groups	5	112	.022	4.925
Within groups	42	191	.005	p = .0012
Total	47	303		

Model II estimate of between component variance = .003

One Factor ANOVA X 1 : Column 1 Y 4 : VIII Lam Prop

Group	Count	Mean	Std. Dev.:	Std. Error:
Control	24	55	.066	.014
A 5Gy	6	57	.104	.043
B 10Gy	6	48	.056	.023
C 15Gy	5	406	.069	.031
D 20Gy	3	507	.012	.007

One Factor ANOVA X 1 : Column 1 Y 4 : VIII Lam Prop

Group	Count	Mean	Std. Dev.:	Std. Error:
Sham	4	512	.013	.006

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.02	.062	.081	.636
Control vs. B 10Gy	.07	.062*	1.046	2.287
Control vs. C 15Gy	.144	.067*	3.792*	4.354
Control vs. D 20Gy	.044	.083	.224	1.059
Control vs. Sham	.038	.074	.217	1.041

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs B 10Gy	.09	.079*	1.068	2.311
A 5Gy vs. C 15Gy	.164	.082*	3.223*	4.015
A 5Gy vs. D 20Gy	.063	.096	.353	1.328
A 5Gy vs. Sham	.058	.088	.349	1.32
B 10Gy vs C 15Gy	.074	.082	.656	1.811

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VIII Lam Prop

Comparison:	Mean Diff:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gy	-.027	.096	.062	.559
B 10Gy vs. Sham	-.032	.088	.111	.746
C 15Gy vs. D 20Gy	-.101	.099*	.835	2.043
C 15Gy vs. Sham	-.106	.091*	1.108	2.353
D 20Gy vs. Sham	-.006	.104	.003	.113

\* Significant at 95%

One Factor ANOVA X 1 : Column 1 Y 5 : Lam Prop

Analysis of Variance Table

Source	DF	Sum Squares	Mean Square	F-test
Between groups	5	194	.039	16.319
Within groups	42	1	.002	p = .0001
Total	47	294		

Model II estimate of between component variance = .005

One Factor ANOVA X 1 : Column 1 Y 5 : Lam Prop

Group	Count	Mean	Std. Dev.	Std. Error
Control	24	511	.051	.01
A 5Gy	6	643	.027	.011
B 10Gy	6	48	.054	.022
C 15Gy	5	382	.062	.028
D 20Gy	3	517	.05	.029

One Factor ANOVA X 1 : Column 1 Y 5 : Lam Prop

Group	Count	Mean	Std. Dev.	Std. Error
Sham	4	507	.024	.012



One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. A 5Gy	-.132	.045*	7.083*	5.951
Control vs. B 10Gy	.031	.045	.384	1.385
Control vs. C 15Gy	.129	.048*	5.773*	5.373
Control vs. D 20Gy	-.006	.06	.008	.195
Control vs. Sham	.003	.053	.003	.127

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
A 5Gy vs. B 10Gy	.163	.057*	6.727*	5.8
A 5Gy vs. C 15Gy	.261	.06*	15.655*	8.847
A 5Gy vs. D 20Gy	.127	.07*	2.697*	3.672
A 5Gy vs. Sham	.136	.064*	3.722*	4.314
B 10Gy vs. C 15Gy	.098	.06*	2.202	3.318

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
B 10Gy vs. D 20Gv	-.037	.07	.226	1.063
B 10Gy vs. Sham	-.027	.064	.153	.873
C 15Gy vs. D 20Gy	-.135	.072*	2.858*	3.78
C 15Gy vs. Sham	-.126	.066*	2.942*	3.835
D 20Gy vs. Sham	.009	.075	.012	.246

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Analysis of Variance Table

Source	DF	Sum Squares	Mean Square	F-test
Between groups	5	055	.011	4.525
Within groups	42	103	.002	p = .0022
Total	47	158		

Model II estimate of between component variance = .001

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group	Count	Mean	Std. Dev.	Std. Error
Control	24	527	.035	.007
A 5Gy	6	572	.031	.012
B 10Gy	6	563	.069	.028
C 15Gy	5	482	.1	.045
D 20Gy	3	63	.036	.021

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group	Count	Mean	Std. Dev.	Std. Error
Sham	4	527	.029	.014

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison	Mean Diff	Fisher PLSD	Scheffe F-test	Dunnnett t
Control vs A 5Gy	-0.45	.046	.797	1.996
Control vs B 10Gy	-0.37	.046	.529	1.626
Control vs C 15Gy	0.45	.049	.677	1.839
Control vs D 20Gy	-1.03	.061*	2.333	3.416
Control vs Sham	-0.01	.054	1.951E-4	.031

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison	Mean Diff	Fisher PLSD	Scheffe F-test	Dunnnett t
A 5Gy vs B 10Gy	0.08	.058	.017	.292
A 5Gy vs C 15Gy	0.09	.06*	1.797	2.997
A 5Gy vs D 20Gy	-0.58	.07	.558	1.67
A 5Gy vs Sham	0.44	.064	.384	1.385
B 10Gy vs C 15Gy	0.81	.06*	1.478	2.719

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison	Mean Diff	Fisher PLSD	Scheffe F-test	Dunnnett t
B 10Gy vs D 20Gy	-0.67	.07	.728	1.908
B 10Gy vs Sham	0.36	.064	.253	1.124
C 15Gy vs D 20Gy	-1.48	.073*	3.366*	4.102
C 15Gy vs Sham	-0.45	.067	.377	1.373
D 20Gy vs Sham	1.03	.076*	1.476	2.717

\* Significant at 95%

**Part 2.**

**AgNOR Number/Nucleus v Post Irradiation Time**

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villous

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.097	.019	8.106
Within groups	46	11	.002	p = .0001
Total	51	207		

Model II estimate of between component variance = .002

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villous

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.209	.048	.01
Five Gy	6	1.28	.048	.02
Ten Gy	6	1.31	.046	.019
Fifteen Gy	6	1.312	.07	.029
Twenty Gy	6	1.213	.037	.015

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villous

Group:	Count	Mean	Std. Dev.:	Std. Error:
Sham	4	1.26	.036	.018

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	- .071	.045*	2.011	3.171
Control vs. Ten Gy	- .101	.045*	4.074*	4.513
Control vs. Fifteen Gy	- .103	.045*	4.21*	4.588
Control vs. Twenty Gy	- .004	.045	.007	.187
Control vs. Sham	- .051	.053	.74	1.923

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	- .03	.057	.225	1.062
Five Gy vs. Fifteen Gy	- .032	.057	.251	1.121
Five Gy vs. Twenty Gy	.067	.057*	1.113	2.359
Five Gy vs. Sham	.02	.064	.08	.633
Ten Gy vs. Fifteen Gy	- .002	.057	.001	.059

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : Upper Villous

Comparison:	Mean Diff.	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.097	.057*	2.34	3.421
Ten Gy vs. Sham	.05	.064	.501	1.583
Fifteen Gy vs. Twenty Gy	.098	.057*	2.422*	3.48
Fifteen Gy vs. Sham	.052	.064	.535	1.635
Twenty Gy vs. Sham	- .047	.064	.436	1.477

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	3.528	.706	80.89
Within groups	46	.401	.009	p = .0001
Total	51	3.929		

Model II estimate of between component variance = .092

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.424	.105	.021
Five Gy	6	1.983	.108	.044
Ten Gy	6	1.708	.087	.035
Fifteen Gy	6	2	.069	.028
Twenty Gy	6	1.23	.067	.027

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.432	.04	.02

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.559	.086*	34.409*	13.117
Control vs. Ten Gy	-.284	.086*	8.887*	6.666
Control vs. Fifteen Gy	-.576	.086*	36.491*	13.508
Control vs. Twenty Gy	.194	.086*	4.149*	4.555
Control vs. Sham	-.008	.102	.005	.165

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.275	.109*	5.202*	5.1
Five Gy vs. Fifteen Gy	-.017	.109	.019	.309
Five Gy vs. Twenty Gy	.753	.109*	39.034*	13.97
Five Gy vs. Sham	.551	.121*	16.695*	9.137
Ten Gy vs. Fifteen Gy	-.292	.109*	5.851*	5.409

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.478	.109*	15.737*	8.871
Ten Gy vs. Sham	.276	.121*	4.186*	4.575
Fifteen Gy vs. Twenty Gy	.77	.109*	40.78*	14.279
Fifteen Gy vs. Sham	.568	.121*	17.721*	9.413
Twenty Gy vs. Sham	-.202	.121*	2.256	3.359

\* Significant at 95%



One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	9.373	1.875	236.429
Within groups	46	.365	.008	p = .0001
Total	51	9.737		

Model II estimate of between component variance = .247

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.732	.064	.013
Five Gy	6	2.882	.119	.048
Ten Gy	6	2.318	.15	.061
Fifteen Gy	6	2.318	.077	.031
Twenty Gy	6	1.483	.054	.022

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group:	Count	Mean	Std. Dev.:	Std. Error
Sham	4	1.772	.12	.06

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-1.149	.082*	159.9*	28.275
Control vs. Ten Gy	-.586	.082*	41.556*	14.415
Control vs. Fifteen Gy	-.586	.082*	41.556*	14.415
Control vs. Twenty Gy	.249	.082*	7.517*	6.131
Control vs. Sham	-.04	.097	.138	.832

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.563	.103*	24.016*	10.958
Five Gy vs. Fifteen Gy	.563	.103*	24.016*	10.958
Five Gy vs. Twenty Gy	1.398	.103*	147.974*	27.201
Five Gy vs. Sham	1.109	.116*	74.481*	19.298
Ten Gy vs. Fifteen Gy	0	.103	0	0

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.835	.103*	52.764*	16.243
Ten Gy vs. Sham	.546	.116*	18.037*	9.497
Fifteen Gy vs. Twenty Gy	.835	.103*	52.764*	16.243
Fifteen Gy vs. Sham	.546	.116*	18.037*	9.497
Twenty Gy vs. Sham	-.289	.116*	5.062*	5.031

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Analysis of Variance Table

Source	DF	Sum Squares:	Mean Square:	F-test:
Between groups	5	371	.074	16.963
Within groups	46	201	.004	p = .0001
Total	51	572		

Model II estimate of between component variance = .009

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Group	Count	Mean	Std. Dev.:	Std. Error:
Control	24	719	.052	.011
Five Gy	6	662	.058	.024
Ten Gy	6	693	.056	.023
Fifteen Gy	6	948	.084	.034
Twenty Gy	6	825	.112	.046

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Group	Count	Mean	Std. Dev.:	Std. Error:
Sham	4	695	.054	.027

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	.057	.061	.716	1.892
Control vs. Ten Gy	.025	.061	.142	.842
Control vs. Fifteen Gy	-.23	.061*	11.579*	7.609
Control vs. Twenty Gy	-.106	.061*	2.48*	3.521
Control vs. Sham	.024	.072	.089	.665

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	-.032	.077	.138	.83
Five Gy vs. Fifteen Gy	-.287	.077*	11.283*	7.511
Five Gy vs. Twenty Gy	-.163	.077*	3.663*	4.28
Five Gy vs. Sham	-.033	.086	.122	.781
Ten Gy vs. Fifteen Gy	-.255	.077*	8.928*	6.681

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	-.132	.077*	2.38	3.45
Ten Gy vs. Sham	-.002	.086	3.051E-4	.039
Fifteen Gy vs. Twenty Gy	.123	.077*	2.089	3.232
Fifteen Gy vs. Sham	.253	.086*	7.05*	5.937
Twenty Gy vs. Sham	.13	.086*	1.856	3.047

\* Significant at 95%

One Factor ANOVA X 1 : Column 1 Y 5 : Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	1.333	.267	68.295
Within groups	46	.18	.004	p = .0001
Total	51	1.513		

Model II estimate of between component variance = .035

One Factor ANOVA X 1 : Column 1 Y 5 : Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.676	.059	.012
Five Gy	6	1.127	.069	.028
Ten Gy	6	.602	.055	.023
Fifteen Gy	6	.933	.08	.033
Twenty Gy	6	.79	.063	.026

One Factor ANOVA X 1 : Column 1 Y 5 : Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.688	.056	.028

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.451	.057*	49.973*	15.807
Control vs. Ten Gy	.074	.057*	1.352	2.6
Control vs. Fifteen Gy	-.258	.057*	16.303*	9.028
Control vs. Twenty Gy	-.114	.057*	3.205*	4.003
Control vs. Sham	-.012	.068	.024	.346

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.525	.073*	42.355*	14.552
Five Gy vs. Fifteen Gy	.193	.073*	5.744*	5.359
Five Gy vs. Twenty Gy	.337	.073*	17.417*	9.332
Five Gy vs. Sham	.439	.081*	23.71*	10.888
Ten Gy vs. Fifteen Gy	-.332	.073*	16.904*	9.193

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	-.188	.073*	5.451*	5.22
Ten Gy vs. Sham	-.086	.081*	.906	2.128
Fifteen Gy vs. Twenty Gy	.143	.073*	3.157*	3.973
Fifteen Gy vs. Sham	.246	.081*	7.429*	6.095
Twenty Gy vs. Sham	.102	.081*	1.292	2.541

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.456	.091	17.75
Within groups	46	.236	.005	p = .0001
Total	51	.692		

Model II estimate of between component variance = .011

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.651	.087	.018
Five Gy	6	1.788	.039	.016
Ten Gy	6	1.722	.055	.023
Fifteen Gy	6	1.792	.04	.016
Twenty Gy	6	1.463	.05	.021

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.648	.078	.039

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.137	.066*	3.515*	4.192
Control vs. Ten Gy	-.07	.066*	.927	2.153
Control vs. Fifteen Gy	-.14	.066*	3.688*	4.294
Control vs. Twenty Gy	.188	.066*	6.604*	5.746
Control vs. Sham	.004	.078	.002	.097

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.067	.083	.52	1.612
Five Gy vs. Fifteen Gy	-.003	.083	.001	.081
Five Gy vs. Twenty Gy	.325	.083*	12.346*	7.857
Five Gy vs. Sham	.141	.093*	1.855	3.045
Ten Gy vs. Fifteen Gy	-.07	.083	.573	1.692

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.258	.083*	7.801*	6.245
Ten Gy vs. Sham	.074	.093	.514	1.604
Fifteen Gy vs. Twenty Gy	.328	.083*	12.601*	7.938
Fifteen Gy vs. Sham	.144	.093*	1.944	3.117
Twenty Gy vs. Sham	-.184	.093*	3.172*	3.982

\* Significant at 95%



One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	8.497	1.699	192.894
Within groups	46	.405	.009	p = .0001
Total	51	8.902		

Model II estimate of between component variance = .223

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.209	.048	.01
Five Gy	6	2.333	.162	.066
Ten Gy	6	1.405	.029	.012
Fifteen Gy	6	1.048	.066	.027
Twenty Gy	6	.81	.057	.023

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.345	.245	.122

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Control vs. Five Gy	-1.124	.086*	137.711*	26.24
Control vs. Ten Gy	-.196	.086*	4.179*	4.571
Control vs. Fifteen Gy	.161	.086*	2.819*	3.754
Control vs. Twenty Gy	.399	.086*	17.363*	9.317
Control vs. Sham	-.136	.102*	1.436	2.68

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Five Gy vs. Ten Gy	.928	.109*	58.694*	17.131
Five Gy vs. Fifteen Gy	1.285	.109*	112.459*	23.713
Five Gy vs. Twenty Gy	1.523	.109*	158.043*	28.111
Five Gy vs. Sham	.988	.122*	53.221*	16.313
Ten Gy vs. Fifteen Gy	.357	.109*	8.664*	6.582

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Ten Gy vs. Twenty Gy	.595	.109*	24.111*	10.98
Ten Gy vs. Sham	.06	.122	.196	.99
Fifteen Gy vs. Twenty Gy	.238	.109*	3.869*	4.398
Fifteen Gy vs. Sham	-.297	.122*	4.795*	4.897
Twenty Gy vs. Sham	-.535	.122*	15.595*	8.83

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	4.451	.89	100.642
Within groups	46	.407	.009	p = .0001
Total	51	4.858		

Model II estimate of between component variance = .116

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.424	.105	.021
Five Gy	6	1.9	.087	.035
Ten Gy	6	1.917	.033	.014
Fifteen Gy	6	1.878	.075	.03
Twenty Gy	6	1.005	.094	.039

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.385	.111	.056

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.476	.086*	24.576*	11.085
Control vs. Ten Gy	-.492	.086*	26.327*	11.473
Control vs. Fifteen Gy	-.454	.086*	22.389*	10.58
Control vs. Twenty Gy	.419	.086*	19.071*	9.765
Control vs. Sham	.039	.102	.119	.771

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	-.017	.109	.019	.307
Five Gy vs. Fifteen Gy	.022	.109	.032	.399
Five Gy vs. Twenty Gy	.895	.109*	54.34*	16.483
Five Gy vs. Sham	.515	.122*	14.394*	8.483
Ten Gy vs. Fifteen Gy	.038	.109	.1	.706

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.912	.109*	56.383*	16.79
Ten Gy vs. Sham	.532	.122*	15.341*	8.758
Fifteen Gy vs. Twenty Gy	.873	.109*	51.741*	16.084
Fifteen Gy vs. Sham	.493	.122*	13.208*	8.127
Twenty Gy vs. Sham	-.38	.122*	7.837*	6.26

\* Significant at 95%

One Factor ANOVA X 1 : Column 1 Y 3 : Crypts

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	14.512	2.902	238.066
Within groups	46	.561	.012	p = .0001
Total	51	15.072		

Model II estimate of between component variance = .382

One Factor ANOVA X 1 : Column 1 Y 3 : Crypts

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Control	24	1.732	.064	.013
Five Gy	6	2.682	.158	.065
Ten Gy	6	2.128	.241	.098
Fifteen Gy	6	1.012	.089	.036
Twenty Gy	6	.81	.04	.016

One Factor ANOVA X 1 : Column 1 Y 3 : Crypts

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.745	.037	.018

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypts

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.949	.101*	70.942*	18.834
Control vs. Ten Gy	-.396	.101*	12.338*	7.854
Control vs. Fifteen Gy	.721	.101*	40.916*	14.303
Control vs. Twenty Gy	.922	.101*	67.012*	18.305
Control vs. Sham	-.013	.12	.009	.21

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypts

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.553	.128*	15.069*	8.68
Five Gy vs. Fifteen Gy	1.67	.128*	137.257*	26.197
Five Gy vs. Twenty Gy	1.872	.128*	172.408*	29.361
Five Gy vs. Sham	.937	.143*	34.543*	13.142
Ten Gy vs. Fifteen Gy	1.117	.128*	61.369*	17.517

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypts

Comparison:	Mean Diff.	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	1.318	.128*	85.537*	20.68
Ten Gy vs. Sham	.383	.143*	5.786*	5.378
Fifteen Gy vs. Twenty Gy	.202	.128*	2.002	3.164
Fifteen Gy vs. Sham	-.733	.143*	21.174*	10.289
Twenty Gy vs. Sham	-.935	.143*	34.42*	13.119

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VI Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	1.051	.21	19.943
Within groups	46	.485	.011	p = .0001
Total	51	1.536		

Model II estimate of between component variance = .026

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VI Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.719	.052	.011
Five Gy	6	.747	.094	.038
Ten Gy	6	1.083	.093	.038
Fifteen Gy	6	.92	.054	.022
Twenty Gy	6	.567	.249	.102

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VI Lam Prop

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	.713	.064	.032

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VI Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.028	.094	.071	.596
Control vs. Ten Gy	-.365	.094*	12.104*	7.779
Control vs. Fifteen Gy	-.201	.094*	3.688*	4.294
Control vs. Twenty Gy	.152	.094*	2.102	3.242
Control vs. Sham	.006	.112	.003	.113

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VI Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	-.337	.119*	6.451*	5.679
Five Gy vs. Fifteen Gy	-.173	.119*	1.71	2.924
Five Gy vs. Twenty Gy	.18	.119*	1.841	3.034
Five Gy vs. Sham	.034	.133	.053	.516
Ten Gy vs. Fifteen Gy	.163	.119*	1.518	2.755

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : VI Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.516	.119*	15.183*	8.713
Ten Gy vs. Sham	.371	.133*	6.261*	5.595
Fifteen Gy vs. Twenty Gy	.353	.119*	7.099*	5.958
Fifteen Gy vs Sham	.207	.133*	1.96	3.131
Twenty Gy vs Sham	-.146	.133*	.966	2.198

\* Significant at 95%



One Factor ANOVA X 1 : Column 1 Y 5 : Lami Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	2.048	.41	85.724
Within groups	46	.22	.005	p = .0001
Total	51	2.268		

Model II estimate of between component variance = .053

One Factor ANOVA X 1 : Column 1 Y 5 : Lami Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.676	.059	.012
Five Gy	6	1.013	.1	.041
Ten Gy	6	1.207	.103	.042
Fifteen Gy	6	.91	.026	.011
Twenty Gy	6	.567	.052	.021

One Factor ANOVA X 1 : Column 1 Y 5 : Lami Prop

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	.74	.083	.041

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam1 Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.338	.064*	22.887*	10.597
Control vs. Ten Gy	-.531	.064*	56.617*	16.825
Control vs. Fifteen Gy	-.234	.064*	11.018*	7.422
Control vs. Twenty Gy	.109	.064*	2.394	3.46
Control vs. Sham	-.064	.075	.591	1.719

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam1 Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	-.193	.08*	4.694*	4.844
Five Gy vs. Fifteen Gy	.103	.08*	1.341	2.589
Five Gy vs. Twenty Gy	.447	.08*	25.054*	11.192
Five Gy vs. Sham	.273	.09*	7.506*	6.126
Ten Gy vs. Fifteen Gy	.297	.08*	11.052*	7.434

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam1 Prop

Comparison:	Mean Diff.	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.64	.08*	51.437*	16.037
Ten Gy vs. Sham	.467	.09*	21.879*	10.459
Fifteen Gy vs. Twenty Gy	.343	.08*	14.803*	8.603
Fifteen Gy vs. Sham	.17	.09*	2.903*	3.81
Twenty Gy vs. Sham	-.173	.09*	3.018*	3.885

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	1.056	.211	29.702
Within groups	46	.327	.007	p = .0001
Total	51	1.383		

Model II estimate of between component variance = .027

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.651	.087	.018
Five Gy	6	1.545	.064	.026
Ten Gy	6	1.647	.129	.053
Fifteen Gy	5	1.257	.068	.028
Twenty Gy	6	1.375	.065	.026

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.675	.039	.019

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Control vs. Five Gy	.106	.077*	1.524	2.76
Control vs. Ten Gy	.005	.077	.003	.119
Control vs. Fifteen Gy	.395	.077*	21.018*	10.251
Control vs. Twenty Gy	.276	.077*	10.302*	7.177
Control vs. Sham	-.024	.092	.054	.521

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Five Gy vs. Ten Gy	-.102	.098*	.872	2.088
Five Gy vs. Fifteen Gy	.288	.098*	7.014*	5.922
Five Gy vs. Twenty Gy	.17	.098*	2.438*	3.492
Five Gy vs. Sham	-.13	.11*	1.141	2.388
Ten Gy vs. Fifteen Gy	.39	.098*	12.833*	8.01

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Ten Gy vs. Twenty Gy	.272	.098*	6.227*	5.58
Ten Gy vs. Sham	-.028	.11	.054	.521
Fifteen Gy vs. Twenty Gy	-.118	.098*	1.181	2.43
Fifteen Gy vs. Sham	-.418	.11*	11.812*	7.685
Twenty Gy vs. Sham	-.3	.11*	6.075*	5.511

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	3.14	.628	106.714
Within groups	45	.265	.006	p = .0001
Total	50	3.404		

Model II estimate of between component variance = .085

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.224	.075	.015
Five Gy	6	1.738	.067	.027
Ten Gy	5	1.24	.056	.025
Fifteen Gy	6	.753	.138	.056
Twenty Gy	6	1.03	.024	.01

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.26	.036	.018

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.515	.071*	43.203*	14.697
Control vs. Ten Gy	-.016	.076	.037	.431
Control vs. Fifteen Gy	.47	.071*	36.105*	13.436
Control vs. Twenty Gy	.194	.071*	6.125*	5.534
Control vs. Sham	-.036	.083	.153	.875

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.498	.094*	23.021*	10.729
Five Gy vs. Fifteen Gy	.985	.089*	98.936*	22.241
Five Gy vs. Twenty Gy	.708	.089*	51.163*	15.994
Five Gy vs. Sham	.478	.1*	18.665*	9.661
Ten Gy vs. Fifteen Gy	.487	.094*	21.956*	10.478

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.21	.094*	4.088*	4.521
Ten Gy vs. Sham	-.02	.104	.03	.389
Fifteen Gy vs. Twenty Gy	-.277	.089*	7.805*	6.247
Fifteen Gy vs. Sham	-.507	.1*	20.942*	10.233
Twenty Gy vs. Sham	-.23	.1*	4.315*	4.645

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	1.103	.221	24.993
Within groups	45	.397	.009	p = .0001
Total	50	1.5		

Model II estimate of between component variance = .029

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.424	.105	.021
Five Gy	6	1.822	.113	.046
Ten Gy	5	1.706	.059	.026
Fifteen Gy	6	1.62	.083	.034
Twenty Gy	6	1.41	.071	.029

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.432	.04	.02

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.397	.086*	17.191*	9.271
Control vs. Ten Gy	-.282	.093*	7.45*	6.103
Control vs. Fifteen Gy	-.196	.086*	4.173*	4.568
Control vs. Twenty Gy	.014	.086	.022	.33
Control vs. Sham	-.008	.102	.005	.164

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.116	.115*	.827	2.034
Five Gy vs. Fifteen Gy	.202	.109*	2.766*	3.719
Five Gy vs. Twenty Gy	.412	.109*	11.524*	7.591
Five Gy vs. Sham	.389	.122*	8.239*	6.418
Ten Gy vs. Fifteen Gy	.086	.115	.457	1.512

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.296	.115*	5.416*	5.204
Ten Gy vs. Sham	.274	.127*	3.768*	4.34
Fifteen Gy vs. Twenty Gy	.21	.109*	2.999*	3.872
Fifteen Gy vs. Sham	.188	.122*	1.912	3.092
Twenty Gy vs. Sham	-.022	.122	.028	.371

\* Significant at 95%



One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	11.312	2.262	550.143
Within groups	45	.185	.004	p = .0001
Total	50	11.497		

Model II estimate of between component variance = .307

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.732	.064	.013
Five Gy	6	2.352	.059	.024
Ten Gy	5	1.336	.043	.019
Fifteen Gy	6	.89	.054	.022
Twenty Gy	6	.773	.041	.017

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group:	Count	Mean	Std. Dev.:	Std. Error:
Sham	4	1.772	.12	.06

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.619	.059*	89.492*	21.153
Control vs. Ten Gy	.396	.063*	31.637*	12.577
Control vs. Fifteen Gy	.842	.059*	165.694*	28.783
Control vs. Twenty Gy	.959	.059*	214.761*	32.769
Control vs. Sham	-.04	.07	.267	1.155

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	1.016	.078*	136.822*	26.156
Five Gy vs. Fifteen Gy	1.462	.075*	311.705*	39.478
Five Gy vs. Twenty Gy	1.578	.075*	363.45*	42.629
Five Gy vs. Sham	.579	.083*	39.151*	13.991
Ten Gy vs. Fifteen Gy	.446	.078*	26.383*	11.485

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.563	.078*	41.991*	14.49
Ten Gy vs. Sham	-.436	.087*	20.591*	10.147
Fifteen Gy vs. Twenty Gy	.117	.075*	1.986	3.151
Fifteen Gy vs. Sham	-.882	.083*	90.901*	21.319
Twenty Gy vs. Sham	-.999	.083*	116.523*	24.137

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.06	.012	3.608
Within groups	45	.149	.003	p = .0079
Total	50	.209		

Model II estimate of between component variance = .001

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.719	.052	.011
Five Gy	6	.803	.085	.035
Ten Gy	5	.794	.047	.021
Fifteen Gy	6	.753	.05	.02
Twenty Gy	6	.727	.066	.027

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.695	.054	.027

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.085	.053*	2.076 *	3.222
Control vs. Ten Gy	-.075	.057*	1.416	2.661
Control vs. Fifteen Gy	-.035	.053	.347	1.317
Control vs. Twenty Gy	-.008	.053	.018	.302
Control vs. Sham	.024	.063	.117	.765

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.009	.07	.014	.268
Five Gy vs. Fifteen Gy	.05	.067	.453	1.506
Five Gy vs. Twenty Gy	.077	.067*	1.066	2.309
Five Gy vs. Sham	.108	.075*	1.703	2.918
Ten Gy vs. Fifteen Gy	.041	.07	.273	1.168

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Comparison:	Mean Diff:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.067	.07	.747	1.933
Ten Gy vs. Sham	.099	.078*	1.317	2.566
Fifteen Gy vs. Twenty Gy	.027	.067	.129	.803
Fifteen Gy vs. Sham	.058	.075	.494	1.571
Twenty Gy vs. Sham	.032	.075	.145	.853

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.505	.101	28.59
Within groups	45	.159	.004	p = .0001
Total	50	.663		

Model II estimate of between component variance = .013

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Group: Count: Mean: Std. Dev.: Std. Error:

Control	24	.676	.059	.012
Five Gy	6	.88	.068	.028
Ten Gy	5	.796	.06	.027
Fifteen Gy	6	.877	.042	.017
Twenty Gy	6	.602	.022	.009

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Group: Count: Mean: Std. Dev.: Std. Error:

Sham	4	.615	.101	.05
------	---	------	------	-----

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.204	.055*	11.338*	7.529
Control vs. Ten Gy	-.12	.059*	3.386*	4.115
Control vs. Fifteen Gy	-.201	.055*	10.971*	7.406
Control vs. Twenty Gy	.074	.055*	1.496	2.735
Control vs. Sham	.061	.065	.719	1.896

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.084	.072*	1.09	2.335
Five Gy vs. Fifteen Gy	.003	.069	.002	.097
Five Gy vs. Twenty Gy	.278	.069*	13.17*	8.115
Five Gy vs. Sham	.265	.077*	9.551*	6.91
Ten Gy vs. Fifteen Gy	-.081	.072*	1.006	2.242

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.194	.072*	5.837*	5.402
Ten Gy vs. Sham	.181	.08*	4.126*	4.542
Fifteen Gy vs. Twenty Gy	.275	.069*	12.857*	8.018
Fifteen Gy vs. Sham	.262	.077*	9.312*	6.824
Twenty Gy vs. Sham	-.013	.077	.024	.348

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	1.164	.233	38.295
Within groups	45	.274	.006	p = .0001
Total	50	1.438		

Model II estimate of between component variance = .031

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.651	.087	.018
Five Gy	6	1.45	.067	.027
Ten Gy	5	1.512	.065	.029
Fifteen Gy	6	1.362	.069	.028
Twenty Gy	6	1.228	.059	.024

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.648	.078	.039

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	.201	.072*	6.395*	5.655
Control vs. Ten Gy	.139	.077*	2.64*	3.633
Control vs. Fifteen Gy	.29	.072*	13.242*	8.137
Control vs. Twenty Gy	.423	.072*	28.242*	11.883
Control vs. Sham	.004	.085	.002	.089

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	-.062	.095	.345	1.313
Five Gy vs. Fifteen Gy	.088	.091	.77	1.962
Five Gy vs. Twenty Gy	.222	.091*	4.849*	4.924
Five Gy vs. Sham	-.198	.101*	3.08*	3.924
Ten Gy vs. Fifteen Gy	.15	.095*	2.028	3.184

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison	Mean Diff	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.284	.095*	7.219*	6.008
Ten Gy vs. Sham	-.136	.105*	1.342	2.591
Fifteen Gy vs. Twenty Gy	.133	.091*	1.754	2.962
Fifteen Gy vs. Sham	-.286	.101*	6.45*	5.679
Twenty Gy vs. Sham	-.419	.101*	13.872*	8.328

\* Significant at 95%



One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	3.286	.657	26.022
Within groups	46	1.162	.025	p = .0001
Total	51	4.447		

Model II estimate of between component variance = .083

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.209	.048	.01
Five Gy	6	1.53	.071	.029
Ten Gy	6	.958	.455	.186
Fifteen Gy	6	.658	.093	.038
Twenty Gy	6	.8	.026	.011

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.225	.029	.014

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.321	.146*	3.913*	4.423
Control vs. Ten Gy	.251	.146*	2.392	3.458
Control vs. Fifteen Gy	.551	.146*	11.534*	7.594
Control vs. Twenty Gy	.409	.146*	6.364*	5.641
Control vs. Sham	-.016	.173	.007	.184

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.572	.185*	7.765*	6.231
Five Gy vs. Fifteen Gy	.872	.185*	18.052*	9.501
Five Gy vs. Twenty Gy	.73	.185*	12.661*	7.957
Five Gy vs. Sham	.305	.206*	1.768	2.973
Ten Gy vs. Fifteen Gy	.3	.185*	2.138	3.27

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.158	.185	.596	1.726
Ten Gy vs. Sham	-.267	.206*	1.352	2.6
Fifteen Gy vs. Twenty Gy	-.142	.185	.477	1.544
Fifteen Gy vs. Sham	-.567	.206*	6.104*	5.524
Twenty Gy vs. Sham	-.425	.206*	3.433*	4.143

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	2.548	.51	63.225
Within groups	46	.371	.008	p = .0001
Total	51	2.918		

Model II estimate of between component variance = .066

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.424	.105	.021
Five Gy	6	1.923	.092	.037
Ten Gy	6	1.397	.037	.015
Fifteen Gy	6	1.443	.068	.028
Twenty Gy	6	1.007	.072	.03

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.4	.077	.039

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	- .499	.082*	29.681*	12.182
Control vs. Ten Gy	.028	.082	.09	.671
Control vs. Fifteen Gy	- .019	.082	.044	.468
Control vs. Twenty Gy	.417	.082*	20.763*	10.189
Control vs. Sham	.024	.098	.05	.498

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.527	.104*	20.651*	10.161
Five Gy vs. Fifteen Gy	.48	.104*	17.153*	9.261
Five Gy vs. Twenty Gy	.917	.104*	62.559*	17.686
Five Gy vs. Sham	.523	.117*	16.312*	9.031
Ten Gy vs. Fifteen Gy	- .047	.104	.162	.9

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.39	.104*	11.324*	7.525
Ten Gy vs. Sham	- .003	.117	.001	.058
Fifteen Gy vs. Twenty Gy	.437	.104*	14.196*	8.425
Fifteen Gy vs. Sham	.043	.117	.112	.748
Twenty Gy vs. Sham	- .393	.117*	9.215*	6.788

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Analysis of Variance Table

Source	DF	Sum Squares	Mean Square	F-test
Between groups	5	12.001	2.4	118.804
Within groups	46	.929	.02	p = .0001
Total	51	12.93		

Model II estimate of between component variance = .314

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group	Count	Mean	Std. Dev.	Std. Error
Control	24	1.732	.064	.013
Five Gy	6	2.028	.076	.031
Ten Gy	6	1.208	.389	.159
Fifteen Gy	6	.622	.045	.019
Twenty Gy	6	.715	.043	.018

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group	Count	Mean	Std. Dev.	Std. Error
Sham	4	1.757	.103	.052

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Control vs. Five Gy	-.296	.131*	4.159*	4.56
Control vs. Ten Gy	.524	.131*	13.056*	8.08
Control vs. Fifteen Gy	1.111	.131*	58.635*	17.122
Control vs. Twenty Gy	1.017	.131*	49.196*	15.684
Control vs. Sham	-.025	.155	.021	.326

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Five Gy vs. Ten Gy	.82	.165*	19.97*	9.992
Five Gy vs. Fifteen Gy	1.407	.165*	58.766*	17.141
Five Gy vs. Twenty Gy	1.313	.165*	51.226*	16.004
Five Gy vs. Sham	.271	.185*	1.743	2.952
Ten Gy vs. Fifteen Gy	.587	.165*	10.222*	7.149

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison:	Mean Diff	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Ten Gy vs. Twenty Gy	.493	.165*	7.228*	6.012
Ten Gy vs. Sham	-.549	.185*	7.165*	5.986
Fifteen Gy vs. Twenty Gy	-.093	.165	.259	1.137
Fifteen Gy vs. Sham	-1.136	.185*	30.652*	12.38
Twenty Gy vs. Sham	-1.043	.185*	25.822*	11.363

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.021	.004	1.504
Within groups	46	.131	.003	p = .2072
Total	51	.152		

Model II estimate of between component variance = 1.893E-4

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.719	.052	.011
Five Gy	6	.752	.069	.028
Ten Gy	6	.685	.05	.02
Fifteen Gy	6	.757	.053	.022
Twenty Gy	6	.713	.033	.013

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Group:	Count	Mean	Std. Dev.:	Std. Error:
Sham	4	.723	.069	.035

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Comparison:	Mean Diff :	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.033	.049	.366	1.352
Control vs. Ten Gy	.034	.049	.384	1.386
Control vs. Fifteen Gy	-.038	.049	.485	1.558
Control vs. Twenty Gy	.005	.049	.01	.223
Control vs. Sham	-.004	.058	.003	.13

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Comparison:	Mean Diff :	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.067	.062*	.938	2.165
Five Gy vs. Fifteen Gy	-.005	.062	.005	.162
Five Gy vs. Twenty Gy	.038	.062	.31	1.245
Five Gy vs. Sham	.029	.069	.144	.847
Ten Gy vs. Fifteen Gy	-.072	.062*	1.083	2.328

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Comparison:	Mean Diff :	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	-.028	.062	.169	.92
Ten Gy vs. Sham	-.038	.069	.237	1.089
Fifteen Gy vs. Twenty Gy	.043	.062	.396	1.407
Fifteen Gy vs. Sham	.034	.069	.197	.992
Twenty Gy vs. Sham	-.009	.069	.014	.266



AgNOR Numbers versus time 24Hrs

One Factor ANOVA X 1 : Column 1 Y 5 : Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.116	.023	4.144
Within groups	46	.257	.006	p = .0034
Total	51	.373		

Model II estimate of between component variance = .002

One Factor ANOVA X 1 : Column 1 Y 5 : Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.676	.059	.012
Five Gy	6	.727	.03	.012
Ten Gy	6	.707	.174	.071
Fifteen Gy	6	.7	.045	.018
Twenty Gy	6	.555	.028	.011

One Factor ANOVA X 1 : Column 1 Y 5 : Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.705	.052	.026

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.051	.069	.444	1.49
Control vs. Ten Gy	-.031	.069	.163	.904
Control vs. Fifteen Gy	-.024	.069	.1	.708
Control vs. Twenty Gy	.121	.069*	2.51*	3.542
Control vs. Sham	-.029	.081	.104	.723

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison	Mean Diff.	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.02	.087	.043	.464
Five Gy vs. Fifteen Gy	.027	.087	.076	.618
Five Gy vs. Twenty Gy	.172	.087*	3.166*	3.979
Five Gy vs. Sham	.022	.097	.04	.449
Ten Gy vs. Fifteen Gy	.007	.087	.005	.155

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison	Mean Diff.	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.152	.087*	2.471*	3.515
Ten Gy vs. Sham	.002	.097	2.387E-4	.035
Fifteen Gy vs. Twenty Gy	.145	.087*	2.259	3.361
Fifteen Gy vs. Sham	-.005	.097	.002	.104
Twenty Gy vs. Sham	-.15	.097*	1.934	3.11

\* Significant at 95%

One Factor ANOVA X 1 : Column 1 Y 6 : Muscle

Analysis of Variance Table

Source	DF	Sum Squares	Mean Square	F-test
Between groups	5	523	.105	5.698
Within groups	46	845	.018	p = .0004
Total	51	1368		

Model II estimate of between component variance = .011

One Factor ANOVA X 1 : Column 1 Y 6 : Muscle

Group	Count	Mean	Std. Dev.	Std. Error
Control	24	1.583	.176	.036
Five Gy	6	1.392	.097	.039
Ten Gy	6	1.517	.085	.035
Fifteen Gy	6	1.392	.055	.022
Twenty Gy	6	1.333	.078	.032

One Factor ANOVA X 1 : Column 1 Y 6 : Muscle

Group	Count	Mean	Std. Dev.	Std. Error
Sham	4	1.61	.027	.014

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	.192	.124*	1.921	3.099
Control vs. Ten Gy	.067	.124	.232	1.078
Control vs. Fifteen Gy	.192	.124*	1.921	3.099
Control vs. Twenty Gy	.25	.124*	3.268*	4.042
Control vs. Sham	-.027	.147	.027	.364

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	-.125	.157	.511	1.598
Five Gy vs. Fifteen Gy	0	.157	0	0
Five Gy vs. Twenty Gy	.058	.157	.111	.746
Five Gy vs. Sham	-.218	.176*	1.246	2.496
Ten Gy vs. Fifteen Gy	.125	.157	.511	1.598

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.183	.157*	1.098	2.343
Ten Gy vs. Sham	-.093	.176	.228	1.067
Fifteen Gy vs. Twenty Gy	.058	.157	.111	.746
Fifteen Gy vs. Sham	-.218	.176*	1.246	2.496
Twenty Gy vs. Sham	-.277	.176*	2.001	3.163

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	5.146	1.029	381.85
Within groups	42	113	.003	p = .0001
Total	47	5.259		

Model II estimate of between component variance = .153

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Control	24	1.209	.048	.01
Five Gy	6	1.497	.074	.03
Ten Gy	6	.653	.03	.012
Fifteen Gy	5	.622	.082	.037
Twenty Gy	3	.383	.015	.009

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Group:	Count	Mean	Std. Dev.:	Std. Error:
Sham	4	1.25	.024	.012

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.288	.048*	29.442*	12.133
Control vs. Ten Gy	.556	.048*	110.046*	23.457
Control vs. Fifteen Gy	.587	.052*	105.865*	23.007
Control vs. Twenty Gy	.826	.064*	134.958*	25.977
Control vs. Sham	-.041	.057	.424	1.456

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.843	.06*	158.331*	28.136
Five Gy vs. Fifteen Gy	.875	.063*	154.832*	27.824
Five Gy vs. Twenty Gy	1.113	.074*	183.961*	30.328
Five Gy vs. Sham	.247	.068*	10.836*	7.361
Ten Gy vs. Fifteen Gy	.031	.063	.199	.997

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>1</sub> : U Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.27	.074*	10.819*	7.355
Ten Gy vs. Sham	-.597	.068*	63.405*	17.805
Fifteen Gy vs. Twenty Gy	.239	.077*	7.926*	6.295
Fifteen Gy vs. Sham	-.628	.07*	65.036*	18.033
Twenty Gy vs. Sham	-.867	.08*	95.551*	21.858

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	4.001	.8	101.957
Within groups	42	.33	.008	p = .0001
Total	47	4.33		

Model II estimate of between component variance = .118

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.426	.109	.022
Five Gy	6	1.938	.046	.019
Ten Gy	6	1.387	.021	.008
Fifteen Gy	5	1.332	.072	.032
Twenty Gy	3	.537	.083	.048

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Sham	4	1.4	.048	.024

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.512	.082*	32.074*	12.664
Control vs. Ten Gy	.04	.082	.192	.98
Control vs. Fifteen Gy	.094	.088*	.938	2.165
Control vs. Twenty Gy	.89	.109*	53.788*	16.399
Control vs. Sham	.026	.097	.06	.55

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.552	.103*	23.269*	10.786
Five Gy vs. Fifteen Gy	.606	.108*	25.554*	11.303
Five Gy vs. Twenty Gy	1.402	.126*	100.143*	22.377
Five Gy vs. Sham	.538	.115*	17.726*	9.414
Ten Gy vs. Fifteen Gy	.055	.108	.208	1.019

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>2</sub> : L Villous

Comparison:	Mean Diff.	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.85	.126*	36.827*	13.57
Ten Gy vs. Sham	-.013	.115	.011	.233
Fifteen Gy vs. Twenty Gy	.795	.131*	30.227*	12.294
Fifteen Gy vs. Sham	-.068	.12	.262	1.144
Twenty Gy vs. Sham	-.863	.137*	32.564*	12.76

\* Significant at 95%



One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	15.703	3.141	820.013
Within groups	42	161	.004	p = .0001
Total	47	15.864		

Model II estimate of between component variance = .469

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Control	24	1.732	.064	.013
Five Gy	6	1.96	.072	.029
Ten Gy	6	.735	.036	.015
Fifteen Gy	5	.466	.039	.017
Twenty Gy	3	.307	.047	.027

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Group:	Count	Mean	Std. Dev.:	Std. Error:
Sham	4	1.782	.09	.045

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.228	.057*	12.973*	8.054
Control vs. Ten Gy	.997	.057*	249.398*	35.313
Control vs. Fifteen Gy	1.266	.061*	346.593*	41.629
Control vs. Twenty Gy	1.426	.076*	283.096*	37.623
Control vs. Sham	-.05	.067	.448	1.496

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	1.225	.072*	235.082*	34.284
Five Gy vs. Fifteen Gy	1.494	.076*	317.875*	39.867
Five Gy vs. Twenty Gy	1.653	.088*	285.481*	37.781
Five Gy vs. Sham	.178	.081*	3.949*	4.443
Ten Gy vs. Fifteen Gy	.269	.076*	10.305*	7.178

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>3</sub> : Crypt

Comparison	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.428	.088*	19.161*	9.788
Ten Gy vs. Sham	-1.047	.081*	137.514*	26.222
Fifteen Gy vs. Twenty Gy	.159	.091*	2.486*	3.525
Fifteen Gy vs. Sham	-1.316	.084*	201.12*	31.711
Twenty Gy vs. Sham	-1.476	.095*	194.978*	31.223

\* Significant at 95%

One Factor ANOVA X 1 : Column 1 Y 4 : V Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.392	.078	13.607
Within groups	42	.242	.006	p = .0001
Total	47	.634		

Model II estimate of between component variance = .011

One Factor ANOVA X 1 : Column 1 Y 4 : V Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.719	.052	.011
Five Gy	6	.747	.168	.069
Ten Gy	6	.647	.045	.018
Fifteen Gy	5	.696	.055	.025
Twenty Gy	3	.353	.04	.023

One Factor ANOVA X 1 : Column 1 Y 4 : V Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.712	.068	.034

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.028	.07	.13	.805
Control vs. Ten Gy	.072	.07*	.865	2.08
Control vs. Fifteen Gy	.023	.075	.074	.609
Control vs. Twenty Gy	.365	.094*	12.35*	7.858
Control vs. Sham	.006	.083	.005	.152

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.1	.088*	1.041	2.281
Five Gy vs. Fifteen Gy	.051	.093	.243	1.102
Five Gy vs. Twenty Gy	.393	.108*	10.732*	7.325
Five Gy vs. Sham	.034	.099	.097	.697
Ten Gy vs. Fifteen Gy	-.049	.093	.23	1.073

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>4</sub> : V Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	.293	.108*	5.969*	5.463
Ten Gy vs. Sham	-.066	.099	.361	1.343
Fifteen Gy vs. Twenty Gy	.343	.112*	7.636*	6.179
Fifteen Gy vs. Sham	-.016	.103	.021	.324
Twenty Gy vs. Sham	-.359	.117*	7.67*	6.193

\* Significant at 95%

One Factor ANOVA X 1 : Column 1 Y 5 : Lam Prop

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.252	.05	17.803
Within groups	42	.119	.003	p = .0001
Total	47	.371		

Model II estimate of between component variance = .007

One Factor ANOVA X 1 : Column 1 Y 5 : Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	.676	.059	.012
Five Gy	6	.763	.037	.015
Ten Gy	6	.552	.048	.02
Fifteen Gy	5	.688	.047	.021
Twenty Gy	3	.48	.01	.006

One Factor ANOVA X 1 : Column 1 Y 5 : Lam Prop

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Sham	4	.712	.063	.031

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Control vs. Five Gy	-.088	.049*	2.595*	3.602
Control vs. Ten Gy	.124	.049*	5.226*	5.112
Control vs. Fifteen Gy	-.012	.053	.043	.465
Control vs. Twenty Gy	.196	.066*	7.222*	6.009
Control vs. Sham	-.037	.058	.326	1.276

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Five Gy vs. Ten Gy	.212	.062*	9.491*	6.889
Five Gy vs. Fifteen Gy	.075	.065*	1.093	2.338
Five Gy vs. Twenty Gy	.283	.076*	11.338*	7.529
Five Gy vs. Sham	.051	.069	.438	1.48
Ten Gy vs. Fifteen Gy	-.136	.065*	3.58*	4.231

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>5</sub> : Lam Prop

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnnett t:
Ten Gy vs. Twenty Gy	.072	.076	.725	1.904
Ten Gy vs. Sham	-.161	.069*	4.384*	4.682
Fifteen Gy vs. Twenty Gy	.208	.078*	5.728*	5.352
Fifteen Gy vs. Sham	-.024	.072	.094	.686
Twenty Gy vs. Sham	-.232	.082*	6.544*	5.72

\* Significant at 95%

AgNOR Numbers versus time 72Hrs

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	5	.512	.102	19.061
Within groups	42	.225	.005	p = .0001
Total	47	.737		

Model II estimate of between component variance = .014

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Control	24	1.651	.087	.018
Five Gy	6	1.717	.048	.019
Ten Gy	6	1.388	.046	.019
Fifteen Gy	5	1.51	.066	.029
Twenty Gy	3	1.467	.045	.026

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Group:	Count	Mean	Std. Dev.:	Std. Error:
Sham	4	1.632	.05	.025

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Control vs. Five Gy	-.065	.067	.765	1.956
Control vs. Ten Gy	.263	.067*	12.364*	7.863
Control vs. Fifteen Gy	.141	.073*	3.076*	3.922
Control vs. Twenty Gy	.185	.091*	3.386*	4.114
Control vs. Sham	.019	.08	.045	.474

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Five Gy vs. Ten Gy	.328	.085*	12.051*	7.763
Five Gy vs. Fifteen Gy	.207	.09*	4.341*	4.659
Five Gy vs. Twenty Gy	.25	.105*	4.658*	4.826
Five Gy vs. Sham	.084	.095	.634	1.78
Ten Gy vs. Fifteen Gy	-.122	.09*	1.504	2.743

\* Significant at 95%

One Factor ANOVA X<sub>1</sub> : Column 1 Y<sub>6</sub> : Muscle

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Ten Gy vs. Twenty Gy	-.078	.105	.457	1.512
Ten Gy vs. Sham	-.244	.095*	5.332*	5.163
Fifteen Gy vs. Twenty Gy	.043	.108	.131	.81
Fifteen Gy vs. Sham	-.122	.099*	1.243	2.493
Twenty Gy vs. Sham	-.166	.113*	1.757	2.964

\* Significant at 95%