



Faculty of Dentistry

Effect of Gamma Radiation on Fibronectin Expression in Alveolar Bone of Albino Rats

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*To the Soul of my Wonderful
Mother*

*To my
Great Father
Loving Husband
Lovely Daughters
Dear Sister and Brothers*

I Love You all

All praise are to *Allah the Glorious* and all thanks. He has guided and enabled me by his mercy to fulfill this thesis, which I hope to be beneficial for people.

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List of Contents

Title	Page
• Abstract	1
• Introduction and Review of Literature	3
- Radiation	3
- Diagnostic and Therapeutic Applications of Ionizing Radiation	5
- Cellular and Tissue Responses to Gamma Irradiation	8
- Bone and Alveolar Process	15
- Alveolar Bone Response to Gamma Irradiation	20
- Fibronectin	32
• Aim of the Study	40
• Materials and Methods	41
• Results	49
- I- Histological Results	49
- II- Masson Trichrome Stain Results	112
- III- Immunohistochemical Results	140
- IV- Statistical Results	181
• Discussion	200
• Summary	222
• Conclusions and Recommendations	226
• References	227
• Arabic Summary	

List of Abbreviations

Abbreviation	Meaning
ALP	Alkaline Phosphatase Enzyme
BL	Buccolingual
BMD	Bone Mineral Density
BMPs	Bone Morphogenetic Proteins
Cs	Caesium
DIMS	Digital Imaging Measuring System
DNA	Deoxyribo Nucleic Acid
ECM	Extracellular Matrix
EDTA	Ethylene Diamine Tetraacetic Acid
FN	Fibronectin
G2	Gap Phase 2 in cell cycle
GHD	Growth Hormone Defficiency
Gy	Gray
H&E	Hematoxylin and Eosin
hFOB	human Foetal OsteoBlast
HNSCC	Head and Neck Squamous Cell Carcinoma
MCSF	Macrophage-Colony Stimulating Factor
MD	Mesiodistal
mGy	milliGray
MKs	Megakaryocytes
mRNA	messenger Ribo Nucleic Acid
MT	Masson Trichrome
P	Premolar
PDL	Periodontal Ligament
PTH	Parathyroid Hormone
Rad	Radioactivity Absorbed Dose
RANK	Receptor Activator of Nuclear Factor Kappa-B

RANKL	Receptor Activator of Nuclear Factor Kappa-B Ligand
RGD	Arginyl-Glycyl-Aspartic acid
ROMs	Reactive Oxygen Metabolites
RNA	Ribo Nucleic Acid
RNS	Reactive Nitrogen Species
sIGA	Secretory (salivary) Immunoglobulin A
TRAP	Tartarate-Resistant Acid Phosphatase
TGFb1	Transforming Growth Factor –Beta 1
TMJ	Temporo-Mandibular Joint

List of figures

Fig1	A photomicrograph of MD section of mandibular molar area of subgroup IA showing socket wall. (H&E Org.mag. X100)	52
Fig 2	A photomicrograph of subgroup IA BL section showing buccal cortical plate. (H&E Org mag. X400)	52
Fig 3	A photomicrograph of subgroup IA MD section showing spongy bone. (H&E Org.mag. X400)	53
Fig 4	A photomicrograph of subgroup IA MD section showing filling cone. (H&E Org.mag. X400)	53
Fig 5	A photomicrograph of subgroup IA MD section showing multinucleated osteoclasts. (H&E Org.mag. X400)	54
Fig 6	A photomicrograph of subgroup IA MD section showing bone marrow. (H&E Org.mag. X400)	54
Fig 7	A photomicrograph of the subgroup IIA MD section showing socket wall. (H&E Org.mag. X100)	57
Fig 8	A photomicrograph of the subgroup IIA BL section showing cortical compact bone. (H&E Org.mag. X400)	57
Fig. 9	A photomicrograph of subgroup IIA MD section showing spongy bone. (H&E Org.mag. X400)	58
Fig 10	A photomicrograph of subgroup IIA MD section showing bone marrow. (H&E Org.mag. X400)	58
Fig.11	A photomicrograph of subgroup IIB MD section showing socket wall. (H&E Org.mag. X100)	60
Fig.12	A photomicrograph of subgroup IIB BL section showing cortical compact bone. (H&E Org.mag. X400)	60
Fig.13	A photomicrograph of subgroup IIB MD section showing spongy bone. (H&E Org.mag. X400)	61
Fig.14	A photomicrograph of subgroup IIB MD section showing osteoclasts. (H&E Org.mag. X400)	61
Fig.15	A photomicrograph of subgroup IIB MD section showing bone marrow. (H&E Org.mag. X400).	62

Fig.16	A photomicrograph of subgroup IIC MD section showing socket wall. (H&E Org.mag. X100)	64
Fig.17	A photomicrograph of subgroup IIC MD section showing socket wall. (H&E Org.mag. X400)	64
Fig.18	A photomicrograph of subgroup IIC BL section showing cortical compact bone. (H&E Org.mag. X400)	65
Fig.19	A photomicrograph of subgroup IIC MD section showing spongy bone. (H&E Org.mag. X400)	65
Fig.20	A photomicrograph of subgroup IIC MD section showing socket wall with osteoclast. (H&E Org.mag. X400)	66
Fig.21	A photomicrograph of subgroup IIC MD section showing bone marrow. (H&E Org.mag. X400)	66
Fig.22	A photomicrograph of subgroup IID MD section showing socket wall. (H&E Org.mag. X100)	68
Fig.23	A photomicrograph of subgroup IID BL section showing cortical compact bone. (H&E Org.mag. X400)	68
Fig.24	A photomicrograph of subgroup IID MD section showing spongy bone. (H&E Org.mag. X400)	69
Fig.25	A photomicrograph of subgroup IID MD section showing socket wall with osteoclast. (H&E Org.mag. X400)	69
Fig.26	A photomicrograph of subgroup IID MD section showing bone marrow. (H&E Org.mag. X400)	70
Fig.27	A photomicrograph of the subgroup IIIA MD section showing socket wall. (H&E Org.mag. X100)	72
Fig.28	A photomicrograph of subgroup IIIA BL section showing cortical compact bone. (H&E Org.mag. X400)	73
Fig.29	A photomicrograph of the subgroup IIIA MD section showing spongy bone. (H&E Org.mag. X400)	73
Fig.30	A photomicrograph of subgroup IIIA MD section showing osteoclasts. (H&E Org.mag. X400)	74
Fig.31	A photomicrograph of subgroup IIIA MD section showing bone marrow. (H&E Org.mag. X400)	74

Fig.32	A photomicrograph of subgroup IIIA MD section showing bone marrow. (H&E Org.mag. X400)	75
Fig.33	A photomicrograph of the subgroup IIIB MD section showing socket wall. (H&E Org.mag. X100)	77
Fig.34	A photomicrograph of the subgroup IIIB MD section showing socket wall. (H&E Org.mag. X100)	78
Fig.35	A photomicrograph of subgroup IIIB BL section showing compact cortical bone. (H&E Org.mag. X400)	78
Fig 36	A photomicrograph of the subgroup IIIB MD section showing spongy bone. (H&E Org.mag. X400)	79
Fig 37	A photomicrograph of the subgroup IIIB MD section showing thin endothelialy lined blood vessel. (H&E Org.mag. X400)	79
Fig.38	A photomicrograph of subgroup IIIB MD section showing bone marrow. (H&E Org.mag. X400)	80
Fig.39	A photomicrograph of the subgroup IIIC MD section showing socket wall. (H&E Org.mag. X100)	82
Fig.40	A photomicrograph of subgrp IIIC BL section showing compact cortical bone. (H&E Org.mag. X400)	82
Fig. 41	A photomicrograph of the subgroup IIIC MD section showing spongy bone. (H&E Org.mag. X400)	83
Fig.42	A photomicrograph of subgroup IIIC MD section showing osteoclasts. (H&E Org.mag. X400)	83
Fig.43	A photomicrograph of subgroup IIIC MD section showing bone marrow. (H&E Org.mag. X400)	84
Fig.44	A photomicrograph of the subgroup IIID MD section showing socket wall. (H&E Org.mag. x100)	86
Fig.45	A photomicrograph of subgroup IIID BL section showing compact cortical bone. (H&E Org.mag. X400)	86
Fig. 46	A photomicrograph of the subgroup IIID MD section showing spongy bone. (H&E Org.mag.	87

	X400)	
Fig.47	A photomicrograph of subgroup IIID MD section showing socket wall with osteoclasts. (H&E Org.mag. X400)	87
Fig.48	A photomicrograph of subgroup IIID MD section showing bone marrow. (H&E Org.mag. X400)	88
Fig.49	A photomicrograph of the subgroup IVA MD section showing socket wall. (H&E Org.mag. X100)	90
Fig. 50	A photomicrograph of subgroup IVA BL section showing compact cortical bone. (H&E Org.mag. X400)	90
Fig. 51	A photomicrograph of the subgroup IVA MD section showing spongy bone. (H&E Org.mag. X400)	91
Fig.52	A photomicrograph of subgroup IVA MD section showing socket wall with osteoclasts. (H&E Org.mag. X400)	91
Fig.53	A photomicrograph of subgroup IVA MD section showing bone marrow. (H&E Org.mag. X400)	92
Fig.54	A photomicrograph of the subgroup IVB MD section showing socket wall. (H&E Org.mag. X100)	94
Fig. 55	A photomicrograph of subgroup IVB BL section showing compact cortical bone. (H&E Org.mag. X400)	94
Fig. 56	A photomicrograph of the subgroup IVB MD section showing spongy bone. (H&E Org.mag. X400)	95
Fig.57	A photomicrograph of subgroup IVB MD section showing socket wall. (H&E Org.mag. X400)	95
Fig.58	A photomicrograph of subgroup IVB MD section showing socket wall with osteoclasts. (H&E Org.mag. X400)	96
Fig.59	A photomicrograph of subgroup IVB MD section showing bone marrow. (H&E Org.mag. X400)	96
Fig.60	A photomicrograph of the subgroup IVC MD section showing socket wall. (H&E Org.mag. X100)	98

Fig. 61	A photomicrograph of subgroup IVC BL section showing compact cortical bone. (H&E Org.mag. X400)	98
Fig. 62	A photomicrograph of the subgroup IVC MD section showing spongy bone. (H&E Org.mag. X400)	99
Fig.63	A photomicrograph of subgroup IVC MD section showing socket wall with osteoclasts. (H&E Org.mag. X400)	99
Fig.64	A photomicrograph of subgroup IVC MD section showing bone marrow. (H&E Org.mag. X400)	100
Fig.65	A photomicrograph of the subgroup IVD MD section showing socket wall. (H&E Org.mag. X100)	102
Fig. 66	A photomicrograph of subgroup IVD BL section showing compact cortical bone. (H&E Org.mag. X400)	103
Fig. 67	A photomicrograph of the subgroup IVD MD section showing spongy bone. (H&E Org.mag. X400)	103
Fig.68	A photomicrograph of subgroup IVD MD section showing scalloped socket wall with osteoclasts. (H&E Org.mag. X400)	104
Fig.69	A photomicrograph of subgroup IVD MD section showing bone matrix. (H&E Org.mag. X400)	104
Fig.70	A photomicrograph of subgroup IVD MD section showing bone marrow. (H&E Org.mag. X400)	105
Fig.71	A photomicrograph of subgroup IA socket wall. (MT Org.mag. X400).	113
Fig.72	A photomicrograph of subgroup IA socket wall. (MT Org.mag. X400).	113
Fig.73	A photomicrograph of subgroup IA cortical plates. (MT Org.mag. X400).	114
Fig.74	A photomicrograph of subgroup IA spongy bone showing endosteal new bone formation. (MT Org.mag. X400).	114
Fig.75	A photomicrograph of subgroup IIA socket wall. (MT Org.mag. X400).	116
Fig.76	A photomicrograph of subgroup IIA socket wall. (MT Org.mag. X400).	116

Fig.77	A photomicrograph of subgroup IIA cortical plate showing subperiosteal new bone formation. (MT Org.mag. X400).	117
Fig.78	A photomicrograph of subgroup IIA spongy bone showing endosteal new bone formation. (MT Org.mag. X400).	117
Fig.79	A photomicrograph of subgroup IIB socket wall showing new bone formation. (MT Org.mag. X400).	118
Fig.80	A photomicrograph of subgroup IIB cortical plate showing subperiosteal new bone formation. (MT Org.mag. X400).	119
Fig.81	A photomicrograph of subgroup IIB spongy bone (MT Org.mag. X400).	119
Fig.82	A photomicrograph of subgroup IIC socket wall. (MT Org.mag. X100).	120
Fig. 83	A photomicrograph of subgroup IIC cortical plate. (MT Org.mag. X400).	121
Fig. 84	A photomicrograph of subgroup IIC spongy bone. (MT Org.mag. X400).	121
Fig. 85	A photomicrograph of subgroup IID socket wall. (MT Org.mag. X400).	122
Fig. 86	A photomicrograph of subgroup IID cortical plate. (MT Org.mag. X400).	123
Fig.87	A photomicrograph of subgroup IID socket wall. (MT Org.mag. X400).	123
Fig.88	A photomicrograph of subgroup IIIA socket wall. (MT Org.mag. X400).	124
Fig.89	A photomicrograph of subgroup IIIA cortical plate. (MT Org.mag. X400).	125
Fig.90	A photomicrograph of subgroup IIIA spongy bone. (MT Org.mag. X400)	125
Fig.91	A photomicrograph of subgroup IIIB socket wall. (MT Org.mag. X100).	126
Fig.92	A photomicrograph of subgroup IIIB cortical plate. (MT Org.mag. X400).	127
Fig. 93	A photomicrograph of subgroup IIIB spongy bone. (MT Org.mag. X400).	127
Fig.94	A photomicrograph of subgroup IIIC socket wall.	128

	(MT Org.mag. X100)	
Fig.95	A photomicrograph of subgroup IIC cortical plate. (MT Org.mag. X400).	129
Fig. 96	A photomicrograph of subgroup IIC spongy bone. (MT Org.mag. X400).	129
Fig. 97	A photomicrograph of subgroup IID socket wall. (MT Org.mag. X100)	130
Fig.98	A photomicrograph of subgroup IID cortical plate. (MT Org.mag. X400).	131
Fig. 99	A photomicrograph of subgroup IID spongy bone. (MT Org.mag. X400).	131
Fig. 100	A photomicrograph of subgroup IVA socket wall. (MT Org.mag. X400).	132
Fig.101	A photomicrograph of subgroup IVA cortical plate. (MT Org.mag. X400).	133
Fig.102	A photomicrograph of subgroup IVA spongy bone. (MT Org.mag. X400).	133
Fig.103	A photomicrograph of subgroup IVB socket wall. (MT Org.mag. X100).	134
Fig.104	A photomicrograph of subgroup IVB cortical plate. (MT Org.mag. X400).	135
Fig.105	A photomicrograph of subgroup IVB spongy bone. (MT Org.mag. X400).	135
Fig.106	A photomicrograph of subgroup IVC socket wall. (MT Org.mag. X100).	136
Fig.107	A photomicrograph of subgroup IVC cortical plate. (MT Org.mag. X400).	137
Fig.108	A photomicrograph of subgroup IVC spongy bone. (MT Org.mag. X400).	137
Fig.109	A photomicrograph of subgroup IVD socket wall. (MT Org.mag. X100).	138
Fig.110	A photomicrograph of subgroup IVD cortical plate. (MT Org.mag. X400).	139
Fig.111	A photomicrograph of subgroup IVD spongy bone. (MT Org.mag. X400).	139
Fig.112	A photomicrograph of subgroup IA BL section showing cortical bone with covering periosteum. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	141

Fig.113	A photomicrograph of subgroup IA BL section showing spongy bone. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	141
Fig.114	A photomicrograph of subgroup IA BL section showing socket wall. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	142
Fig.115	A photomicrograph of subgroup IA BL section showing spongy bone. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	142
Fig.116	A photomicrograph of subgroup IA BL section showing hematopoietic marrow. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	143
Fig.117	A photomicrograph of subgroup. IIA BL section showing cortical bone. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	145
Fig.118	A photomicrograph of subgroup IIA BL section showing spongy bone. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	145
Fig.119	A photomicrograph of subgroup IIA BL section showing socket wall. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	146
Fig.120	A photomicrograph of subgroup IIA BL section showing socket wall. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	146
Fig.121	A photomicrograph of subgroup IIA BL section showing hematopoietic marrow. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	147
Fig.122	A photomicrograph of subgroup. IIB BL section showing cortical bone (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	149
Fig.123	A photomicrograph of subgroup IIB BL section showing spongy bone. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	149
Fig.124	A photomicrograph of subgroup IIB BL section showing socket wall. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	150
Fig.125	A photomicrograph of subgroup IIB BL section showing socket wall. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	150

Fig.126	A photomicrograph of subgroup IIB BL section showing hematopoietic marrow. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	151
Fig.127	A photomicrograph of subgroup. IIC BL section showing cortical bone. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	152
Fig. 128	A photomicrograph of subgroup IIC BL section showing socket wall. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	153
Fig.129	A photomicrograph of subgroup IIC BL section showing socket wall. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	153
Fig.130	A photomicrograph of subgroup IIC BL section showing socket wall. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	154
Fig.131	A photomicrograph of subgroup. IIC BL section showing hematopoietic marrow. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	154
Fig. 132	A photomicrograph of subgroup IID BL section showing spongy bone. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	155
Fig.133	A photomicrograph of subgroup IID BL section showing socket wall. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	156
Fig.134	A photomicrograph of subgroup IID BL section showing socket wall. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	156
Fig.135	A photomicrograph of subgroup IID BL section showing hematopoietic marrow. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	157
Fig.136	A photomicrograph of subgroup. IIIA BL section showing cortical bone (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	158
Fig.137	A photomicrograph of subgroup IIIA BL section showing spongy bone. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	159
Fig.138	A photomicrograph of subgroup IIIA BL section showing socket wall. (Anti-FN Org.Mag. X400) counterstain: Hematoxylin	159