FACTORS AFFECTING GINGIVAL BLOOD FLOW

A project report submitted in partial fulfilment

for the degree of Master of Dental Surgery

by

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TABLE OF CONTENTS

		Page No.
SUMMARY		xii
SIGNED STATEMENT		xiii
ACKNOWLEDGEMENTS		xiv
CHAPTER I	INTRODUCTION	1
CHAPTER II	REVIEW OF THE LITERATURE	5
	The Blood Supply to the Periodontium	5
	The Blood Supply to the Gingiva	12
	Methods for Investigation of Blood Flow	15
	Gingival Blood Flow	20
	Control of Blood Flow	23
	A. Central Nervous System Mechanisms	23
	1. Peripheral Vasomotor Control	23
	2. Medullary Vasomotor Centre	24
	B. Systemic Mechanisms	25
	C. Local Factors	26
	Acute Necrotizing Ulcerative Gingivitis	28
	History	28
	Predisposing Factors	31
	Action of Nicotine	35
	Pharmacological Action of Nicotine	35
	Pharmacological Action of Adrenaline	39
CHAPTER III	MATERIALS AND METHODS	45
	1. Equipment	46
	1) Experimental Animal	46
	2) Negative Temperature Coefficient Thermistor	46

TABLE OF CONTENTS (Contd.)

Page No.

3) Constant Current Generator 49

4) Physiological Pressure Transducer 51

2. Materials 53

1) Physiological Saline 53

2) 10^{-7} Nicotine 53

3) 10 μGM Adrenaline 54

4) Combination of 1), 2) and 3) 55

3. Experimental Method 56

1) Animal Sedation 56

2) Drug Administration 56

3) Blood Pressure Measurement 56

4) Gingival Blood Flow 59

5) Administration of Microspheres 61

6) Sacrifice 63

7) Histologic Preparation 63

4. Human Study 64

1) Materials 64

2) Experimental Method 65

CHAPTER IV RESULTS 69

1. Saline 70

A. Intravenous Administration 70

1) Thermistor Temperature (Millivoltage) 70

2) Blood Pressure 70

3) Peripheral Temperature 72

B. Continuous Half Hourly Intravenous Administration 72

1) Thermistor Temperature (Millivoltage) 72

TABLE OF CONTENTS (Contd.)

Page No.

2) Blood Pressure 72

3) Peripheral Temperature 72

C. Intra-arterial Administration 74

1) Thermistor Temperature (Millivoltage) 74

2) Blood Pressure 74

3) Peripheral Temperature 74

D. Continuous Half Hourly Intra-Arterial Administration 74

1) Thermistor Temperature (Millivoltage) 74

2) Blood Pressure 76

3) Peripheral Temperature 76

E. Summary 76

1) Thermistor Temperature (Millivoltage) 76

2) Blood Pressure 78

3) Peripheral Temperature 78

F. Discussion 78

2. Nicotine 81

A. Intravenous Administration 81

1) Thermistor Temperature (Millivoltage) 81

2) Blood Pressure 82

3) Peripheral Temperature 82

B. Continuous Half Hourly Intravenous Administration 82

1) Thermistor Temperature (Millivoltage) 82

2) Blood Pressure 84

TABLE OF CONTENTS (Contd.)

Page No.

3) Peripheral Temperature 84

C. Intra-arterial Administration 86

1) Thermistor Temperature (Millivoltage) 86

2) Blood Pressure 86

3) Peripheral Temperature 86

D. Continuous Half Hourly Intra-Arterial Administration 86

1) Thermistor Temperature (Millivoltage) 86

2) Blood Pressure 88

3) Peripheral Temperature 88

E. Summary 88

1) Thermistor Temperature (Millivoltage) 88

2) Blood Pressure 90

3) Peripheral Temperature 90

F. Discussion 91

3. Adrenaline 95

A. Intravenous Administration 95

1) Thermistor Temperature (Millivoltage) 95

2) Blood Pressure 97

3) Peripheral Temperature 97

B. Continuous Half Hourly Intravenous Administration 97

1) Thermistor Temperature (Millivoltage) 97

2) Blood Pressure 97

3) Peripheral Temperature 99

TABLE OF CONTENTS (Contd.)

	Page No.
C. Intra-arterial Administration	99
1) Thermistor Temperature (Millivoltage)	99
2) Blood Pressure	99
3) Peripheral Temperature	99
D. Continuous Half Hourly Intra-Arterial Administration	101
1) Thermistor Temperature (Millivoltage)	101
2) Blood Pressure	101
3) Peripheral Temperature	101
E. Summary	101
1) Thermistor Temperature (Millivoltage)	101
2) Blood Pressure	103
3) Peripheral Temperature	103
F. Discussion	104
4. Saline, Nicotine and Adrenaline	107
A. Intravenous Administration	107
1) Thermistor Temperature (Millivoltage)	107
2) Blood Pressure	107
3) Peripheral Temperature	109
B. Continuous Half Hourly Intravenous Administration	109
1) Thermistor Temperature (Millivoltage)	109
2) Blood Pressure	109
3) Peripheral Temperature	109

TABLE OF CONTENTS (Contd.) Page No.

C. Intra-arterial Administration 111
1) Thermistor Temperature (Millivoltage) 111
2) Blood Pressure 111
3) Peripheral Temperature 111
D. Continuous Half Hourly Intra-Arterial Administration 111
1) Thermistor Temperature (Millivoltage) 111
2) Blood Pressure 113
3) Peripheral Temperature 113
E. Summary 113
1) Thermistor Temperature (Millivoltage) 113
2) Blood Pressure 113
3) Peripheral Temperature 115
F. Discussion 115
5. Six Hour Carotid Clamp 117
1) Thermistor Temperature (Millivoltage) 117
2) Peripheral Temperature 119
A. Summary 119
1) Thermistor Temperature (Millivoltage) 119
2) Peripheral Temperature 119
B. Discussion 119
6. Physiological Temperature Variation 121
A. Discussion 121
7. Microsphere Infusion 123
A. Summary 130

TABLE OF CONTENTS (Contd.)

		Page No.
	B. Discussion	131
	8. Human Study	134
	1) Thermistor Temperature (Millivoltage)	134
	2) Digital Temperature	134
	A. Discussion	136
CHAPTER V	DISCUSSION	138
CHAPTER VI	CONCLUSIONS	152
CHAPTER VII	APPENDICES	153
	Appendix I Histologic Preparation	153
	Appendix II Gingival Blood Flow	154
	Appendix III Microsphere Infusion	172
BIBLIOGRAPHY		176

LIST OF ILLUSTRATIONS

Page No.

FIGURE 1. Circuit Diagram of Constant Current Generator 50

FIGURE 2. Circuit Diagram of Pressure Transducer and Power Supply 52

FIGURE 3. Diagrammatic Representation of Cannula Loop 58

FIGURE 4. Manufacturer's Specifications for Thermistor Resistance vs Temperature 60

FIGURE 5. Diagrammatic Representation of Thermistor Assembly 62

FIGURE 6. Thermistor Assembly in the Gingival Crevice of the Experimental Animal 62

FIGURE 7. Circuit Diagram of Electronic Thermometer 66

FIGURE 8. Diagrammatic Representation of Crown Form Thermistor Assembly 67

FIGURE 9. Initial Thermistor Assembly in situ 67

FIGURE 10. Intravenous Saline - Thermistor Voltage : Blood Pressure 71

FIGURE 11. Intravenous Saline - Thermistor Voltage : Temperature 71

FIGURE 12. Intravenous Saline ½ hourly - Thermistor Voltage : Blood Pressure 73

FIGURE 13. Intravenous Saline ½ hourly - Thermistor Voltage : Temperature 73

FIGURE 14. Intra-arterial Saline - Thermistor Voltage : Blood Pressure 75

FIGURE 15. Intra-arterial Saline - Thermistor Voltage : Temperature 75

FIGURE 16. Intra-arterial Saline ½ hourly - Thermistor Voltage : Blood Pressure 77

LIST OF ILLUSTRATIONS (Contd.)

Page No.

FIGURE 17. Intra-arterial Saline ½ hourly - Thermistor Voltage : Temperature 77

FIGURE 18. Intravenous Nicotine - Thermistor Voltage : Blood Pressure 83

FIGURE 19. Intravenous Nicotine - Thermistor Voltage : Temperature 83

FIGURE 20. Intravenous Nicotine ½ hourly - Thermistor Voltage : Blood Pressure 85

FIGURE 21. Intravenous Nicotine ½ hourly - Thermistor Voltage : Temperature 85

FIGURE 22. Intra-arterial Nicotine - Thermistor Voltage : Blood Pressure 87

FIGURE 23. Intra-arterial Nicotine - Thermistor Voltage : Temperature 87

FIGURE 24. Intra-arterial Nicotine ½ hourly - Thermistor Voltage : Blood Pressure 89

FIGURE 25. Intra-arterial Nicotine ½ hourly - Thermistor Voltage : Temperature 89

FIGURE 26. Intravenous Adrenaline - Thermistor Voltage : Blood Pressure 96

FIGURE 27. Intravenous Adrenaline - Thermistor Voltage : Temperature 96

FIGURE 28. Intravenous Adrenaline ½ hourly - Thermistor Voltage : Blood Pressure 98

FIGURE 29. Intravenous Adrenaline ½ hourly - Thermistor Voltage : Temperature 98

FIGURE 30. Intra-arterial Adrenaline - Thermistor Voltage : Blood Pressure 100

FIGURE 31. Intra-arterial Adrenaline - Thermistor Voltage : Temperature 100

LIST OF ILLUSTRATIONS (Contd.)

Page No.

FIGURE 32. Intra-arterial Adrenaline ½ hourly - Thermistor Voltage : Blood Pressure 102

FIGURE 33. Intra-arterial Adrenaline ½ hourly - Thermistor Voltage : Temperature 102

FIGURE 34. Intravenous Saline, Nicotine and Adrenaline - Thermistor Voltage : Blood Pressure 108

FIGURE 35. Intravenous Saline, Nicotine and Adrenaline - Thermistor Voltage : Temperature 108

FIGURE 36. Intravenous Saline, Nicotine and Adrenaline - ½ hourly - Thermistor Voltage : Blood Pressure 110

FIGURE 37. Intravenous Saline, Nicotine and Adrenaline - ½ hourly - Thermistor Voltage : Temperature 110

FIGURE 38. Intra-arterial Saline, Nicotine and Adrenaline - Thermistor Voltage : Blood Pressure 112

FIGURE 39. Intra-arterial Saline, Nicotine and Adrenaline - Thermistor Voltage : Temperature 112

FIGURE 40. Intra-arterial Saline, Nicotine and Adrenaline ½ hourly - Thermistor Voltage : Blood Pressure 114

FIGURE 41. Intra-arterial Saline, Nicotine and Adrenaline ½ hourly - Thermistor Voltage : Temperature 114

FIGURE 42. Six Hour Carotid Clamp - Thermistor Voltage : Temperature 118

FIGURE 43. Physiological Temperature Variation 122

FIGURE 44. Gingival Crest - Microsphere Impaction 125

FIGURE 45. Epithelial Attachment - Microsphere Impaction 126

FIGURE 46. Microsphere Impaction following Saline Infusion 127

FIGURE 47. Microsphere Impaction following Nicotine Infusion 127

LIST OF ILLUSTRATIONS (Contd.)

Page No.

FIGURE 48. Microsphere Impaction following Adrenaline Infusion 128

FIGURE 49. Microsphere Impaction following Saline, Nicotine and Adrenaline Infusion 128

FIGURE 50. Human Study - Thermistor Voltage : Digital Temperature 135

SUMMARY

The present study was undertaken to investigate the effect of nicotine and adrenaline on gingival blood flow. An animal model was used to obtain the controlled data but supporting human studies were also conducted.

The gingival blood flow was monitored by a microelectronic device using a thermal diffusion method. The drugs examined had a profound effect upon gingival blood flow: in combination they approximated the effect of total carotid occlusion.

The hypothesis of Kardachi and Clarke (1974) that stress and smoking could be significant factors in the initiation of Acute Necrotizing Ulcerative Gingivitis (A.N.U.G.), by combining to compromise the gingival blood supply, resulting in epithelial necrosis, is supported by the experimental evidence recorded in this research report.

SIGNED STATEMENT

This project report is submitted in partial fulfilment of the requirements of the Degree of Master of Dental Surgery in The University of Adelaide.

This report contains no material which has been accepted for the award of any other degree or diploma in any University. To the best of my knowledge and belief, it contains no material previously published or written by another person except where due reference is made in the text of the report.

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