



STUDIES OF THE SURVIVAL AND DESTRUCTION
OF HUMAN PLATELETS

THESIS SUBMITTED FOR THE DEGREE OF
DOCTOR OF MEDICINE

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INTRODUCTION

I declare that this thesis is entirely of my own composition, and that it contains no material that has been submitted to obtain any other degree or diploma from any university.

The work upon which it is based was carried out in the Department of Medicine at the University of Adelaide between February 1962 and March 1964 while the author held a Research Fellowship granted by the National Heart Foundation of Australia. Equipment and materials were provided by a further grant from that Foundation to Dr. H. Lander, under whose supervision the work was carried out. The same grant provided the services of Miss M. Hall as Laboratory Assistant. All studies reported were carried out by the author or under his immediate supervision, with the exception of some diagnostic procedures and investigations of coagulation indicated in the text, which were performed in the laboratories and by members of the staff of the Institute of Medical and Veterinary Science, Adelaide.

Reports of sections of the work which have been published to date, or are about to be published, are attached as appendices. These were written by the author in cooperation with Dr. H. Lander.

CONTENTS

CHAPTER		Page
1	REVIEW	1
	I. The nature, origin and function of platelets .	1
	II. Studies of platelet survival	11
	III. Studies of platelet destruction in man	46
	IV. Summary: aims of the present study	48
2	MATERIALS AND METHODS	51
	I. Materials	51
	II. Radioisotope supply	53
	III. Laboratory methods	54
	IV. Statistical methods	56
3	THE BINDING OF SODIUM CHROMATE BY PLATELETS ..	58
	I. Studies of the conditions of labelling	58
	II. The platelet-chromate bond	62
	III. Conclusions	64
4	THE METHOD OF LABELLING PLATELETS WITH RADIOCHROMATE, AND ITS APPLICATIONS	66
	I. Characteristics and evolution; subjects	66
	II. Evaluations of method	68
	III. Conclusions	72
5	THE SURVIVAL AND BEHAVIOUR OF NORMAL PLATELETS .	74
	I. Subjects and procedure	74
	II. General pattern	76

CHAPTER		Page
5 (cont.)	III. Appearance in circulation	78
	IV. Clearance	79
	V. Recirculation	80
	VI. Survival	83
	VII. A "model" for platelet survival	87
	VIII. Conclusions	92
6	SITES OF PLATELET SEGREGATION AND DESTRUCTION	
	IN NORMAL SUBJECTS	94
	I. Procedure	94
	II. Studies during clearance	97
	III. Studies during recirculation	99
	IV. Studies during survival	100
	V. Conclusions	103
7	PLATELET SURVIVAL AND DISTRIBUTION IN OTHER	
	SUBJECTS	104
	I. Definition and incidence of reduced survival.	104
	II. General features of reduced survival	106
	III. Anticoagulated patients	108
	IV. Polycythaemia and thrombocythaemia	110
	V. Thrombocytopenia	112
	VI. Results of splenectomy	115
	VII. Studies of altered platelets	117
	VIII. Conclusions	119

CHAPTER	Page
8	THE SPLEEN AND PLATELET SURVIVAL 121
	I. Review of work already presented 121
	II. Adenosine diphosphate and circulating platelets 124
	III. Noradrenaline and circulating platelets .. 125
	IV. Conclusions 127
9	SUMMARY 128
REFERENCES 133
APPENDICES following page 162
A	The behaviour of infused human platelets during the first twenty-four hours after infusion. Brit. J. Haemat., <u>10</u> , 94, 1964.
B	The labelling of human platelets with radiochromate. Austral. J. Exp. Biol., <u>41</u> , 581, 1963.
C	The behaviour and survival of platelets in polycythaemia and thrombocythaemia. Aust. Ann. Med., to be published.
D	Effect of adenosine diphosphate on circulating platelets in man. Nature (London) 201, 1037, 1964.