

UNIVERSITI TEKNOLOGI MARA

**PATTERN OF SOFT CONTACT LENSES
PRESCRIBED BY OPTOMETRIST AROUND
BANDAR PUNCAR ALAM**

NUR IKAZAREEN BINTI DAHLAN

**Project submitted in fulfillment of the requirements for the
degree of**

Bachelor (Hons.) Of Optometry

Faculty of Health Sciences

JULY 2015

DECLARATION

I declare that all the works in this thesis and the research project to which it refers are the product of my own work except for quotations which have been fully acknowledged in accordance with the standard referring practices of discipline.

NUR IKAZAREEN BINTI DAHLAN

(2011264182)

TABLE OF CONTENTS

	TITLE	PAGE
	TABLE OF CONTENTS	i
	LIST OF FIGURES	iii
	ACKNOWLEDGEMENT	iv
	ABSTRACT	v
	ABSTRAK	
	CHAPTER 1 : INTRODUCTION	1
1.1	BACKGROUND	1
1.2	PROBLEM STATEMENT	3
1.3	RATIONALE OF STUDY	4
1.4	OBJECTIVES	4
	CHAPTER 2 : LITERATURE REVIEW	6
2.1	CONTACT LENS DEMOGRAPHICS	6
2.2	TYPES OF SOFT CONTACT LENS PRESCRIBED	8
2.3	MODALITY OF SOFT CONTACT LENSES	14
2.4	BRANDS OF SOFT CONTACT LENSES	16
	CHAPTER 3 : RESEARCH METHODOLOGY	18
3.1	STUDY DESIGN AND SETTING	18
3.2	INCLUSION CRITERION	19
3.3	STUDY LOCATION	19
3.4	SAMPLING	19
3.5	RESEARCH PROCEDURE	20
3.6	SCOPE OF THE RESEARCH	24
3.7	STATISTICAL ANALYSIS	24
	CHAPTER 4 : RESULTS	25
4.1	DEMOGRAPHIC OF SOFT CONTACT LENSES PRESCRIPTION RECORDS	25
4.2	PRESCRIPTION OF LENS TYPE FOR SOFT CONTACT LENSES	26
4.3	SOFT CONTACT LENSES WEARING MODALITY	30
4.4	MANUFACTURERS AND BRANDS OF SOFT CONTACT LENSES	32

CHAPTER 5 : DISCUSSION	37
5.1 DEMOGRAPHIC OF SOFT CONTACT LENSES PRESCRIPTION	37
5.2 PRESCRIPTION OF LENS TYPE FOR SOFT CONTACT LENSES	38
5.3 SOFT CONTACT LENSES WEARING MODALITY	44
5.4 MANUFACTURERS AND BRANDS OF SOFT CONTACT LENSES	46
CHAPTER 6 : CONCLUSION	48
6.1 CONCLUSION	48
6.2 LIMITATION OF STUDY	49
6.3 SUGGESTION FOR FURTHER INVESTIGATION	50
REFERENCES	51
APPENDICES	53

ABSTRACT

Pattern of Soft Contact lenses prescribed by Optometrist around Bandar Puncak Alam

Introduction: Contact lenses are one of alternative tools used to correct refractive error instead of using glasses. Contact lenses also used for cosmetic and therapeutic purpose. **Method:** This retrospective record review study was conducted in five Optometry practices around Bandar Puncak Alam. The study was to observe the pattern of soft contact lenses prescribed by Optometrist. The contact lenses details such as type of soft contact lenses, contact lenses materials, wearing modality, and the soft contact lenses' manufacturers and brand prescribed from January 2014 to December 2014 were retrieved from patient's record. Five Optometry practices were chosen which was within 20 km from Bandar Puncak Alam. **Results:** A total 398 of soft contact lenses prescribed were analyzed using Microsoft excel. The contact lenses wearers were mostly female resulted 87% and only 13% were male with age from 11 years old to 50 years old. Most of contact lenses were prescribed to young adults aged from 11 to 20 years old. Conventional contact lenses were prescribed the least which was only 2 out of 398 contact lenses and the rest were disposable contact lenses. For contact lenses design the colored cosmetic (54%) and spherical (33%) contact lenses were among the highest prescribed. The study also showed the contact lenses wearer more preferred daily wear (72%) contact lenses and hydrogel contact lenses compared to extended wear (28%) and silicone hydrogel contact lenses. Ciba Vision company was hit the popularity among contact lenses wearer around Bandar Puncak Alam with total of 132 out of 398 soft contact lenses prescribed. **Conclusion:** The using of silicone hydrogel among population was very low as well as the using of multifocal and toric lenses.

Keywords : Contact lens, Silicone Hydrogel