Abstract

Fresh green salads are a popular food which consumed daily by different age stages of rich and poor people for their low price. In spite of the cheep price of these salads; they had high nutritive value for thier contain of high concentration vitamin A; vitamin C; iron; calcium; phosphorus and zinc.

So ; this investigation was designed to find out the most nutritive different salad samples.Moreover; find out the quantity of different salads which covered the daily requirements of vitamin A; vitamin C; iron ; calcium ; phosphorus and zinc for different age stages.

It can be concluded from the obtained data that the best fresh salad samples which more or less covered the daily requirements of vitamin A;vitamin C;iron ; calcium ; phosphorus and zinc for all age stages in case that these salads were the only source of such components in daily diet can be arranged in the following descending order :

First sample :contain tomatoes (18.18%), cucumber (13.64 %), red pepper (13.64 %); green mint (2%); garden rocket (13.64 %); parsley (13.64 %) ; green onion (13.64%); dried shamy bread (5.45 %); olive oil (2.73 %); black olives (2.27%); black pepper (0.09 %); lemon juice (0.45 %); salt (sodium chloride) 0.45 % and 0.18 % vinegar

<u>Second sample</u>: contain tomatoes (20 %); red pepper (10%); parsley (15%) garlic(1.5%); green onion (15%); olive oil (5%); lemon juice (1.3 %); boiled chick pea (32 %) and salt(sodium chloride) 0.2 %

CONTENTS

DR.

Ster R

<u>Page</u>

AKNOWLEDGEMENT	
ABSTRACT	
1- INTRODUCTION	1
2- REVIEW OF LITERATURE	4
2-1. Vegetables	4
2-2. Vitamins	21
2-2-1. Vitamins in Human nutrition	21
2-2-2. Vitamin A	22
2-2-3. Vitamin C	27
2-3. Minerals	31
2-3-1. Minerals in Human nutrition	31
	32
2-3-2. Iron	37
2-3-3. Calcium	39
2-3-4. Phosphorus	40
2-3-5. Zinc	42
2-4. Fibers	44
3- MATERIALS AND METHODS	44
3-1. Materials	44
Exer .	NO.





ς.

	<u>Page</u>
3-1-1.Vegetables	44
3-1-2. Additives	44
3-2. Methods	44
3-2-1.Preparation of salad samples	44
3-2-2. Chemical analysis	47
3-2-2-1 Approximate chemical composition	47
3-2-2-2 Determination of minerals	47
3-2-2-2-1 Iron content	47
3-2-2-2 Calcium content	47
3-2-2-3 Phosphorus content	48
3-2-2-2-4 Zinc content	48
3-2-2-3 Determination of vitamins	48
3-2-2-3-1 Carotenoids	48
3-2-2-3-2 Vitamin C (ascorbic acid)	49
3-2-3. Organoleptic evaluation	49
4- RESULTS AND DISCUSSION	50
4-1. Chemical composition of raw vegetables	50
4-2. Chemical composition of fresh salad samples	61
4-3. The evaluation of different salad samples and their	
quantities covering the daily requirements of some	
vitamins and minerals	70
21	56





i

- iii -	Sere
4-3-1. Quantities (g.) covering the daily requirements of.	Page
vit. A, vit.C, Fe,Ca,P,and Zn for 12-14 years old male from different fresh salad samples	73
4-3-2. Quantities (g.) covering the daily requirements of. vit. A, vit.C, Fe,Ca,P,and Zn for 12-14 years old female from different fresh salad samples	75
4-3-3. Quantities (g.) covering the daily requirements of. vit. A, vit.C, Fe,Ca,P,and Zn for 16-18 years old male from different fresh salad samples	77
4-3-4. Quantities (g.) covering the daily requirements of. vit. A, vit.C, Fe,Ca,P,and Zn for 16-18 years old female from different fresh salad samples	79
4-3-5. Quantities (g.) covering the daily requirements of. vit. A, vit.C, Fe,Ca,P,and Zn for 18-60 years old male or over sixty years old male from different fresh salad samples	81
4-3-6. Quantities (g.) covering the daily requirements of. vit. A, vit.C, Fe,Ca,P,and Zn for 18-60 years old female or over sixty years old female from different fresh salad samples.	84
4-3-7 Quantities (g.) covering the daily requirements of. vit. A, vit.C, Fe,Ca,P,and Zn for pregnant women; from different fresh salad samples	87
4-3-8. Quantities (g.) covering the daily requirements of. vit. A, vit.C, Fe,Ca,P,and Zn for lactating women from different fresh salad samples	
4-3-9. Organoleptic evaluation	91
5- SUMMARY AND CONCLUSIONS	
6- REFERENCES	
N. Ezsa	AND AND