

ASSESSMENT OF NUTRITIONAL IMPACT OF SOME DAIRY FOODS

By

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B.Sc. Agric. Sc. (Dairy Science and Technology), Ain-shams University, 2007

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ABSTRACT

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The aim of this study was to produce and evaluate the nutraceutical of milk proteins. For this purpose protein hydrolysate were produced from buffaloes milk whey protein using trypsin at 37°C, pH 7 for 6 hr .Whey protein hydrolysate showed the best nutritional properties followed by whey protein, then casein.

A comparative investigation was done to study the effect of feeding the hyperglycemia rats, which were induced by injection male albino rats with alloxan for 3 days, showed increase in serum biochemical parameters including glucose, triglycerides, total cholesterol and LDL-cholesterol, and HDL- cholesterol, in addition in body weight gain. Rats were fed on basal diet containing different source of protein for 28 days. At the end of the feeding period, all rats tested groups showed increase in their body weight in different values, also the aforementioned biochemical reversed to their initial values, comparing to hyperglycemia rats control group.

On the other hand there were no significant changes in both kidney function parameters. Therefore it can be concluded that highest recovery was observed in the groups which received whey protein hydrolysate, the soy protein came in the second place followed to whey protein and the casein came in the last place. So it seems that to do the beneficial for correcting the hyperglycemia and preventing diabetic complication.

Key Words: Hyperglycemia, Alloxan, Glucose, Lipid pattern, Kidney function.

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CONTENTS

| Title | Page |
|---|-------------|
| LIST OF TABLES | V |
| LIST OF FIGURES | VIII |
| LIST OF ABBREVIATIONS | XI |
| 1. INTRODUCTION | 1 |
| 2. REVIEW OF LITERATURE | 4 |
| 2.1 Diabetes Mellitus | 4 |
| 2.1.1. Definition of diabetes | 4 |
| 2.1.2. Classification of Diabetes | 4 |
| 2.1.3. Diagnosis and complication of diabetes | 7 |
| 2-2 Metabolic correlation between nutrition and diabetes | 7 |
| 2-3 Nutritional Management | 9 |
| 2.4. Whey protein system | 16 |
| 2.5. Therapeutic properties of whey proteins. | 17 |
| 2.5.1 Antimicrobial and antiviral properties | 17 |
| 2.5.2. Immune system modulation | 18 |
| 2.5.3. Anticarcinogenic activity | 19 |
| 2.5.4.Nutrition system effects | 20 |
| 2.6.Milk-derived bioactive peptides: Production and bioactivity | 21 |
| 2.6.1. Production of bioactive peptides. | 21 |
| 2.6.1.1. Enzymatic hydrolysis. | 21 |
| 2.6.1.2. Membrane separation | 22 |
| 2.7. Biological properties of milk-derived bioactive peptides | 23 |
| 2.7.1. Opioid peptides | 23 |
| 2.7. 2.Antiobeisty peptides | 25 |
| 2.7.3. Antioxidant peptides. | 27 |
| 2.7.4. Antilipemic peptides | 28 |
| 2.7.5. Antithrombotic peptides | 28 |
| 2.8. Relation between sources of protein and diabetes | 29 |
| 2.8. 1. Type 2 diabetes | 29 |
| 2.8.2. Soy protein and diabetes | 30 |

| | |
|--|----|
| 2.8.3. Milk protein and diabetes. | 33 |
| 3. MATERIALS AND METHODS | 36 |
| 3.1. Materials | 36 |
| 3.1.1. Milk | 36 |
| 3.1.2. Enzymes | 36 |
| 3.1.3 Chemicals | 36 |
| 3.1.4. Experimental animals | 36 |
| 3.2. Methods. | 36 |
| 3.2.1. Protein production | 36 |
| 3.2.1.1. Preparation of casein | 36 |
| 3.2.1.2. Preparation of whey protein concentrates(WPC) | 37 |
| 3.2.2. Production of protein hydrolysate (WPH) | 37 |
| 3.2.3. Degree of hydrolysis | 40 |
| 3.2.4. Biological evaluation | 40 |
| 3.2.4.1 Basal diet composition | 40 |
| 3.2.4.2 Determination of PER,NPR and BV | 41 |
| 3.2.4.2.1. Protein Efficiency Ratio(PER) | 42 |
| 3.2.4.2.2. Net Protein Ratio (NPR) | 42 |
| 3.2.4.2.3. Biological value (BV) | 42 |
| 3.2.4.3. Biological experimental design | 43 |
| 3.2.4.4. Blood sampling | 44 |
| 3.2.5 Serum biochemical analysis | 44 |
| Determination of glucose | 44 |
| 3.2.5.1. Lipids parameters | 44 |
| Determination of plasma total triglyceride | 44 |
| Determination of plasma total cholesterol | 44 |
| High density Lipoprotein cholesterol | 44 |
| Low density lipoproteins cholesterol | 44 |
| 3.2.5.2. Kidney function parameters | 45 |
| Determination of total protein | 45 |
| Determination of Albumin | 45 |
| Determination of Globulin | 45 |

III

| | |
|---|-----------|
| 3.2.6. Histological examination | 45 |
| 3.2.7. Statistical analysis | 45 |
| 4. RESULTS AND DISCUSSION | 46 |
| PART, I | |
| 4.1. Compositional and nutritional qualities of produced buffalo's casein, whey Proteins concentrate, whey proteins hydrolysate and soy proteins. | 47 |
| 4.2. Proximate composition of buffaloes' casein, whey proteins concentrate and whey protein hydrolysate. | 47 |
| 4.3. Degree of hydrolysis (DH). | 48 |
| 4.4. Nutritional qualities of casein, whey proteins concentrate, whey proteins hydrolysate and soy protein. | 49 |
| 4.4.1. Body weight | 49 |
| 4.4.2. PER, NPR, and BV. | 50 |
| PART, II | |
| Impact of buffalo's casein, whey proteins concentrate, whey proteins hydrolysate and soy protein on body weight, blood glucose, lipid pattern parameters and kidney function. | 55 |
| -Section I : | |
| 4.5. Creating hyperglycemic rat's model | 56 |
| 4.5.1. Creation of experimental hyperglycemic animal's model | 56 |
| 4.5.2. Biochemical parameters | 57 |
| -Section II: | |
| 4.6. Impact of caseins, WPC, WPH, and soy protein on body weight | 58 |
| -Section III: | |
| 4.7. Impact of casein, WPC, WPH and soy protein on serum glucose. | 60 |
| 4.7.1. Impact of casein and WPC on serum glucose. | 60 |
| 4.7.2. Impact of WPH and WPC on serum glucose. | 62 |
| 4.7.3. Impact of casein and soy protein on serum glucose. | 65 |

IV

-Section IV:

| | |
|--|----|
| 4.8. Impact of casein, WPC, WPH and soy protein on serum lipid parameters. | 69 |
| 4.8.1 .Impact of casein and WPC on serum triglycerides | 69 |
| 4.8.2. Impact of WPC and WPH on serum triglycerides. | 71 |
| 4.8.3. Impact of casein and soy protein on serum triglycerides. | 73 |
| 4.8.4 .Impact of casein and WPC on serum total cholesterol. | 77 |
| 4.8.5. Impact of WPC and WPH on serum total cholesterol. | 79 |
| 4.8.6. Impact of casein and soy protein on serum total cholesterol. | 81 |
| 4.8.7. Impact of casein and WPC on serum HDL-cholesterol | 84 |
| 4.8.8. Impact of WPC and WPH on serum HDL-cholesterol | 86 |
| 4.8.9. Impact of casein and soy protein on serum HDL-cholesterol. | 88 |
| 4.8.10. Impact of casein and WPC on serum LDL-cholesterol. | 90 |
| 4.8.11. Impact of WPC and WPH on serum LDL-cholesterol. | 92 |
| 4.8.12. Impact of casein and soy protein on serum LDL-cholesterol. | 94 |

-Section V:

| | |
|---|-----|
| 4.9. Impact of casein, WPC, WPH and soy protein on kidney function | 96 |
| 4.9.1. Impact of casein, WPC, WPH and soy protein on serum total protein. | 96 |
| 4.9.2. Impact of casein, WPC, WPH and soy protein on serum albumin. | 101 |
| 4.9.3. Impact of casein, WPC, WPH and soy protein on serum globulin | 106 |

| | |
|--|-----|
| -Section, VI : Histopathological examination | 112 |
|--|-----|

| | |
|-------------------|-----|
| 5. SUMMARY | 118 |
|-------------------|-----|

| | |
|----------------------|-----|
| 6. REFERENCES | 123 |
|----------------------|-----|

| | |
|--------------------------|--|
| 7. ARABIC SUMMARY | |
|--------------------------|--|

LIST OF TABLES

| No. | Title | Page |
|------|--|------|
| 3.1 | Composition of salts per 1 kg mixture. | 40 |
| 3.2 | Composition of vitamins per 1 kg mixture. | 41 |
| 4.1 | Proximate composition of buffaloes' casein, whey proteins concentrates (WPC), whey proteins hydrolysate (WPH) and soy proteins | 48 |
| 4.2 | Degree of hydrolysis (DH) of whey proteins concentrate hydrolysate (WPH) as AN/TN ratio. | 49 |
| 4.3 | Body weight gain (BWG/g) of rats fed on casein, whey protein concentrate, and whey protein hydrolysate. | 50 |
| 4.4 | Nutritional assessment of buffaloes' casein, whey proteins concentrates (WPC) and whey proteins hydrolysate (WPH). | 51 |
| 4.5 | Serum analysis of rats fed on casein, whey proteins concentrate, whey proteins hydrolysate and soy protein. | 57 |
| 4.6 | Body weight gain in rats consumed different protein sources (n=8 rats). | 59 |
| 4.7 | Serum glucose (mg/dl) of hyperglycemic rats fed on casein and whey protein concentrate for 28 days (n=7rats). | 61 |
| 4.8 | Serum glucose (mg/dl) of hyperglycemic rats fed on whey protein concentrate and whey protein hydrolysate for 28 days (n = 7 rats). | 63 |
| 4.9 | Serum glucose (mg/dl) of hyperglycemic rats fed on casein and soy protein diets for 28 days. (n = 7 rats). | 66 |
| 4.10 | Serum triglyceride (mg/dl) of hyperglycemic rats fed on casein and whey protein concentrate for 28 days (n=7rats). | 70 |

| | | |
|------|---|----|
| 4.11 | Serum triglyceride (mg/dl) of hyperglycemic rats fed on whey protein concentrate and whey protein hydrolysate for 28 days. (n = 7 rats). | 72 |
| 4.12 | Serum triglyceride (mg/dl) of hyperglycemic rats fed on casein and soy protein diets for 28 days. (n = 7 rats). | 74 |
| 4.13 | Serum cholesterol (mg/dl) of hyperglycemic rats fed on casein and whey protein concentrate for 28 days. (n=7rats). | 78 |
| 4.14 | Serum cholesterol (mg/dl) of hyperglycemic rats fed on whey protein concentrate and whey protein hydrolysate for 28 days. (n = 7 rats). | 80 |
| 4.15 | Serum cholesterol (mg/dl) of hyperglycemic rats fed on casein and soy protein diets for 28 days.(n = 7 rats). | 82 |
| 4.16 | Serum HDL-cholesterol (mg/dl) of hyperglycemic rats fed on casein and whey protein concentrate for 28 days (n = 7 rats). | 85 |
| 4.17 | Serum HDL-cholesterol (mg/dl) of hyperglycemic rats fed on whey protein concentrate and whey protein hydrolysate for 28 days. (n = 7 rats). | 87 |
| 4.18 | Serum HDL-cholesterol (mg/dl) of hyperglycemic rats fed on casein and soy protein diets for 28 days. (n=7rats). | 89 |
| 4.19 | Serum LDL-cholesterol (mg/dl) of hyperglycemic rats fed on casein and whey protein concentrate for 28 days (n = 7 rats). | 91 |
| 4.20 | Serum LDL-cholesterol (mg/dl) of hyperglycemic rats fed on whey protein concentrate and whey protein hydrolysate for 28 days. (n = 7 rats). | 93 |

VII

| | | |
|------|---|-----|
| 4.21 | Serum LDL-cholesterol (mg/dl) of hyperglycemic rats fed on casein and soy protein diets for 28 days. (n=7rats). | 95 |
| 4.22 | Serum total protein (mg/dl) of hyperglycemic rats fed on casein and whey protein concentrate for 28 days. (n=7rats). | 97 |
| 4.23 | Serum total protein (mg/dl) of hyperglycemic rats fed on whey protein concentrate and whey protein hydrolysate for 28 days. (n = 7 rats). | 98 |
| 4.24 | Serum total protein (mg/dl) of hyperglycemic rats fed on casein and soy protein diets for 28 days. (n=7rats). | 99 |
| 4.25 | Serum albumin (mg/dl) of hyperglycemic rats fed on casein and whey protein concentrate for 28 days. (n=7rats). | 102 |
| 4.26 | Serum albumin (mg/dl) of hyperglycemic rats fed on whey protein concentrate and whey protein hydrolysate for 28 days. (n = 7 rats). | 103 |
| 4.27 | Serum albumin (mg/dl) of hyperglycemic rats fed on casein and soy protein diets for 28 days.(n=7rats). | 104 |
| 4.28 | Serum globulin (mg/dl) of hyperglycemic rats fed on casein and whey protein concentrate diets for 2 days (n=7rats). | 107 |
| 4.29 | Serum globulin (mg/dl) of hyperglycemic rats fed on whey protein concentrate and whey protein hydrolysate for 28 days. (n = 7 rats). | 108 |
| 4.30 | Serum globulin (mg/dl) of hyperglycemic rats fed on casein and soy protein diets for 28 days. (n=7rats) | 109 |
| 4.31 | The severity of reactions in different groups according to the histopathological alteration. | 117 |

LIST OF FIGURES

| No. | Title | Page |
|------|--|------|
| 3.1 | Manufacture of casein and whey protein. | 38 |
| 3.2 | Manufacture of whey protein hydrolysate | 39 |
| 4.1 | Serum glucose of hyperglycemic rats fed on casein and whey Proteins concentrate diet for 28 days. | 62 |
| 4.2 | Serum glucose of hyperglycemic rats fed on whey protein concentrate and whey protein hydrolysate diet for 28 days. | 64 |
| 4.3 | Serum glucose of hyperglycemic rats fed on casein protein and soy protein diet for 28 days. | 67 |
| 4.4 | Serum triglyceride of hyperglycemic rats fed on casein and whey protein concentrate and casein protein diet for 28 days. | 71 |
| 4.5 | Serum triglyceride of hyperglycemic rats fed on whey protein concentrate and whey protein hydrolysate diet for 28 days. | 73 |
| 4.6 | Serum triglyceride of hyperglycemic rats fed on casein and soy protein diet for 28 days. | 75 |
| 4.7 | Serum total cholesterol of hyperglycemic rats fed on casein and whey protein concentrate diet for 28 days. | 79 |
| 4.8 | Serum total cholesterol of hyperglycemic rats fed on whey protein concentrate and whey protein hydrolysate diet for 28 days. | 81 |
| 4.9 | Serum total cholesterol of hyperglycemic rats fed on casein and soy protein diet for 28 days. | 83 |
| 4.10 | Serum HDL-cholesterol of hyperglycemic rats fed on casein and whey protein concentrate diet for 28 days. | 86 |

| | | |
|------|--|-----|
| 4.11 | Serum HDL-cholesterol of hyperglycemic rats fed on whey protein concentrate and whey protein hydrolysate diet for 28 days. | 88 |
| 4.12 | Serum HDL-cholesterol of hyperglycemic rats fed on casein and soy protein diet for 28 days | 90 |
| 4.13 | Serum LDL-cholesterol of hyperglycemic rats fed on casein and whey protein concentrate diet for 28 days. | 92 |
| 4.14 | Serum LDL-cholesterol of hyperglycemic rats fed on whey protein concentrate and whey protein hydrolysate diet for 28 days. | 94 |
| 4.15 | Serum LDL-cholesterol of hyperglycemic rats fed on casein and soy proteins diet for 28 days. | 96 |
| 4.16 | Serum total protein of hyperglycemic rats fed on casein and whey proteins concentrate diet for 28 days. | 100 |
| 4.17 | Serum total protein of hyperglycemic rats fed on whey proteins concentrate and whey protein hydrolysate diet for 28 days. | 100 |
| 4.18 | Serum total protein of hyperglycemic rats fed on casein and soy protein diet for 28 days. | 101 |
| 4.19 | Serum albumin of hyperglycemic rats fed on casein and whey proteins concentrate diet for 28 days. | 105 |
| 4.20 | Serum albumin of hyperglycemic rats fed on whey proteins concentrate and whey protein hydrolysate diet for 28 days. | 105 |
| 4.21 | Serum albumin of hyperglycemic rats fed on casein and soy protein diet for 28 days. | 106 |
| 4.22 | Serum globulin of hyperglycemic rats fed on casein and whey proteins concentrate diet for 28 days. | 110 |
| 4.23 | Serum globulin of hyperglycemic rats fed on whey proteins concentrate and whey protein hydrolysate diet for 28 days | 110 |