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شبكة المعلومات الجامعية
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شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

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COMPARATIVE STUDY OF THE EFFICACY OF GOLD, METHOTREXATE AND THE COMBINATION OF METHOTREXATE AND AZATHIOPRINE IN THE TREATMENT OF RHEUMATOID ARTHRITIS

THESIS

Submitted in partial fulfillment of requirement of the MD
DEGREE IN
"Physical Medicine and Rehabilitation"

٣٧٤٨٠٩

BY

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٣٦٤٨٠٠

**COMPARATIVE STUDY OF THE EFFICACY OF GOLD ,
METHOTREXATE AND THE COMBINATION OF
METHATREXATE AND AZATHIOPRINE IN THE
TREATMENT OF RHEUMATOID ARTHRITIS .**

دراسة مقارنة بين تأثير العلاج بعقار الذهب ، الميزونريكسات و
الميزونريكسات مع الأزوثيوبرين في علاج مريض الرثبان المفصل .

protocol of Thesis Submitted

to the faculty of medicine

Tanta University

In partial Fulfillment

For the Requirements

Of The Doctor Degree in

Physical Medicine and Rehabilitation

By

خطة بحث مقدمة

إلى كلية الطب

جامعة طنطا

إيفاء جزئياً

لشروط الحصول على

درجة الدكتوراه في

الطب الطبيعي والتأهيل

من

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INTRODUCTION

Rheumatoid arthritis (RA) is a chronic inflammatory disease of unknown etiology, that has systemic manifestations characterized primarily by the pattern of joint involvement which may be (mono-or polyarticular), symmetrical or asymmetrical. (1-2)

There is a broad spectrum of clinical manifestations ranging from mild arthritis to debilitating and destructive disease affecting not only the joints but potentially most organs in the body (lung, spleen, liver, kidney). (3-4)

As regards the pathogenesis, the immunological events in the synovium result in inflammatory response mediated by immune complex and tissue destruction mediated by stimulation of synovial cells. (5)

Intercellular adhesion molecules (ICAM₁) are proteins which are important as mediators of close cell-cell and cell-matrix interactions. They are able to influence and regulate basic cellular functions including morphogenesis and immunoregulation. Cell adhesion molecules have been implicated as pathogenetic factors in inflammatory diseases including arthritis. (6,7,8)

As regards the management of RA many patients with RA seems to have acceptable control with a program of physical therapy and non steroidal anti-inflammatory drugs.

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AIM OF THE WORK

The aim of this study is to compare The efficacy of Gold , methotrexate and methotrexate with azathioprine . In treatment of rhumatoid arthrities using intercellular adhesion molecule (ICAM) as a monitor of RA activity before and after treatment .

PATIENTS AND METHODS

The material of this study will comprise 45 patients with active rheumatoid arthritis according to the American Rheumatism association Criteria selected from the outpatient clinic of The Medical Medicine and Rehabilitation department .

The patient will be classified into 3 groups according to the line of treatment .

Group I : will consist of 15 patients under Gold therapy .

Group II : will consist of 15 patients under methotrexate therapy .

Group III : will consist of 15 patients under methatrexate and azathioprine therapy .

All the patients will be subjected to the following assessment (before/after) treatment

1- Clinical assessment .

2- Laboratory assessment which will include :-

(1) E.S.R.

(2) C.R.P

(3) R.F.

(4) (ICAM₁) .

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RESULTS

The Results will be tabulated and analysed .

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DISCUSSION

The Results will be analysed and discussed in view of other available published data .

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REFERENCES

- (1) **Hurad ER** : Extra articular manifestations of rheumatoid arthritis ,
Rheum. 1979 ; 8 ; 151-176.
- (2) **Pearson CM., Amstuts He. , Bluestorne R.** : Diagnosis and
treatment of erosive rheumatoid arthritis and other forms of joint
destruction . internal med. 1973 ; 82 ; 241 - 256 .
- (3) **Sharp Jt., Calkins E. , Cohen As.** : Observations on the clinical
,chemical and serological manifestations of rheumatoid arthritis :
based on the course of 154 cases .Medicine 1964 ; 43 : 41 - 58 .
- (4) **Short CL. , Banner W. and Reynolds WE. , Rheumatoid
arthritis** : Definition of the disease and a clinical description
based on a numerical study of 293 patients and controls
Cambridge , Harvard university Press 1957 .
- (5) **Harris ED.** : Rheumatoid arthritis , pathophysiology and
implications for therapy Med. 1990 , 322 ; 1277-90 .
- (6) **Hale LP. , Martin ME., McCollum DE., et al** : Distribution of
Cell adhesion molecules within the inflammatory synovial
microenvironment . Arthritis and Rheum . 1989 :32 : 22-30 .
- (7) **Johnson , B.A.,Haines , G.K. Harlow ,LA., and Koch ; AE.** :
Adhesion molecule expression in human synovial tissue . Arthritis
Rheum. , 1993 : 36 , 137 - 146 .

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- (8) **Lindsley , H.B., Smith , D.D., Davis, LS. Koch , AE. , and Lipsky ,P.E.** : Regulation of the expression of adhesion molecule by human synoviocytes . Arthritis Rheum. 1992 : 21 , 330 - 334
- (9) **Vander Heijde DM. , Van Riel PL. , Nufferzwart IH. , Gribnau FW. and Van de Putte LB:** Effects hydroxychloroquine and sulfasalazine on Progression of joint damage in rheumatoid arthritis . Lancet . 1989 ; 1036 - 1038 .
- (10) **Boers M., Ransden M.** : Long acting drug Combinations in rheumatoid arthritis : a formal over view : J. Rheumatology. 1991 ; 18 , 316 - 324 .
- (11) **Paulus HE.** : The use of combination of disease modifying anti - rheumatic agents in rheumatoid arthritis . Arthritis Rheum. 1990 , 33 ; 113 - 120 .

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