

รายการอ้างอิง

1. Howard A. Fuchs, John S. Sergent. **Rheumatoid Arthritis : The Clinical Picture**. In : Koopman WJ, editor. Arthritis and Allied Conditions. A Textbook of Rheumatology. 13th edition. Baltimore : Williams and Wilkins, 1997 : 1041-1070.
2. Edward D. Harris, Jr. **Rheumatoid Arthritis : Clinical features of Rheumatoid arthritis**. In : Kelly WN, Ruddy S, Harris ED, Sledge CB, editors. Text Book of Rheumatology. 5th edition. Philadelphia : WB Saunders, 1997 : 898-932.
3. Lawrence JS. **Rheumatoid arthritis : Nature of nature ?** Annals of the Rheumatic Diseases 1970;29:357-69.
4. Cromatic WJ, Craddock JC, Schwab JH, Anderle SK and Yang CH. **Arthritis in the rats after systemic injection of Streptococcal cells of cell walls**. Journal of Experimental Medicine 1977;146:1585-602.
5. Benjamin D. Schwartz. **Scientific Basis for the Study of the Rheumatic Diseases : Structure, Function and Genetics of the HLA Complex in Rheumatic Disease**. In : Koopman WJ, editor. Arthritis and Allied Conditions. A Textbook of Rheumatology. 13th edition. Baltimore : Williams and Wilkins, 1997 : 545-564.
6. William Ollier and Wandy Thomson. **Population genetics of Rheumatoid arthritis**. Rheumatic Disease Clinics of North America 1992;18(4):741-59.
7. Nepom GT, Byers P, Seyfried C, Healey IA, Wilske KR, Stage D, et al. **HLA genes association with Rheumatoid Arthritis**. Arthritis and Rheumatism 1989;32:15-21.
8. Jacob S, Edmund K. Li, Michael G. Cohen, Raymond W.S. Wong, Paul K. Potter and Alex K. So. **Linkage between Rheumatoid Arthritis susceptibility and the presence of HLA-DR4 and DR- β allelic third hypervariable region sequences in Southern Chinese person**. Arthritis and Rheumatism 1992;35:163-7.
9. Kim HY, Kim TG, Park SH, Cho CS and Han Hoon. **Predominance of HLA-DRB1*0405 in Koreans patients with Rheumatoid arthritis**. Annals of the Rheumatic Diseases 1995;54(12):988-90.
10. W-H Koh, S-H Chan, Y-N Lin, M-Y Boey. **Association of HLA-DRB1*0405 with extraarticular manifestation and erosions in Singaporean Chinese with Rheumatoid arthritis**. Journal of Rheumatology 1997;24:629-32.
11. S. Wakitani, N. Murata, Y. toda, R. ogawa, T. kaneshige, Y. Nishimura, et al. **The**

- relationship between HLA-DRB1 alleles and disease subsets of Rheumatoid arthritis in Japanese.** British Journal of Rheumatology 1997;36:630-6.
12. Kim HY, Min JK, Yang HJ, Park SH, Hong YS, Jee WH, et al. **Impact of HLA-DRB1 0405 on disease severity in Korean with seropositive Rheumatoid arthritis.** British Journal of Rheumatology 1997;36(4):440-5.
 13. Charoenwongse P, Kasemsant S, Deesomchok U. **HLA antigens in Thai patients with Rheumatoid arthritis.** 11th International Histocompatibility Workshop and Conference 1991 (Yokohama, Japan);Abstract PS-I2-10:179.
 14. Hockberg MC. **Epidemiology of Rheumatic disease.** Rheumatic Disease Clinic of North America 1990;16:499-782.
 15. Pornthita C haiamnuay, John Darmawan, Kenneth D. Muirden and Paijit Assawatanabodee. **Epidemiology of Rheumatic Disease in Rural Thailand: a WHO-ILAR COPCORD study.** Journal of Rheumatology 1998;25:1382-7.
 16. Salvatore Albani, Dennis A. Carson. **Rheumatoid Arthritis : Etiology and Pathogenesis of Rheumatoid Arthritis.** In : Koopman WJ, editor. Arthritis and Allied Conditions. A Textbook of Rheumatology. 13th edition. Baltimore : Williams and Wilkins, 1997 : 979-992.
 17. Bijlsma JWJ, Derkson RHWM, Huber-Bruning O, Borleffs JCC. **Does AIDs "cure" rheumatoid arthritis?** Annals of the Rheumatic Diseases 1988;47:350-1.
 18. Calabrese LH, Wilke WS, Perkins AD, Tubbs RR. **Rheumatoid arthritis complicated by infection with the human immunodeficiency virus and the development of Sjogren's syndrome.** Arthritis and Rheumatism 1989;32:1453-7.
 19. Julia G. Bodmer, Steven G.E. Marsh, Ekkehard D. Albert, Walter F. Bodmer, Ronald E. Bontrop, Dominique Charron, et al. **Nomenclature for Factors of the HLA System, 1995.** Vox Sanguinis 1995;69:359-72.
 20. Stastny P. **Association of the B-cell alloantigen DRw4 with rheumatoid arthritis.** New England Journal of Medicine 1978;298:869-71.
 21. Robert W. Karr, Glenn E. Rodey, Tsung Lee and Benjamin D. Schwartz. **Association of HLA-DRw4 with rheumatoid arthritis in black and white patients.** Arthritis and Rheumatism 1980;23:1241-5.
 22. Othmar Scherak, Josef S. Smolen and Wolfgang R. Mayr. **Rheumatoid arthritis and B lymphocyte alloantigen HLA-DRw4.** Journal of Rheumatology 1980;7:9-12.
 23. Hiroo Maeda, Takeo Juji, Hiroshi Mitsui, Hidakichi Sonozaki and Katsushiko Okitsu.

- HLA-DR4 and rheumatoid arthritis in Japanese people.** *Annals of the Rheumatic diseases* 1981;40:299-302.
24. B. Sanchez, I. Moreno, R. Magarino, M. Garzon, M.F. Gonzales, A. Garcin, et al. **HLA-DRw10 confers the highest susceptibility to rheumatoid arthritis in a Spanish population.** *Tissue Antigens* 1990;36:174-6.
25. Xiaojiang Gao, Nancy J. Olsen, Theodore Pincus and Peter Stastny. **HLA-DR alleles with Naturally occurring amino acid substitutions and risk for development of Rheumatoid arthritis.** *Arthritis and Rheumatism* 1990;33(7):939-46.
26. J.L. Nelson, E. Mickelson, S. Masewicz, R. Barrington, C. Dugowson, T. koepsell, et al. **Dw14(DRB1*0404) is a Dw4-dependent risk factor for Rheumatoid arthritis.** *Tissue Antigens* 1991;38:145-51.
27. Zhao Y, Dong Y, Zhu X, Qiu C. **HLA-DRB1 alleles genotyping in patients with rheumatoid arthritis in Chinese.** *Chinese Medical Sciences Journal* 1996; 11(4):232-5.
28. Saruhan-Direskeneli G. **Shared epitope homozygosity is strongly associated with rheumatoid arthritis in Turkey.** *Istanbul Rheumatology Study Group.* *British Journal of Rheumatology* 1998;37(10):1126-8.
29. B. Shiff, Y. Mizra Chi, S. Orgad, M. Yaron and E. Gazit. **Association of HLA-Aw31 and HLA-DR1 with adult rheumatoid arthritis.** *Annals of the Rheumatic Diseases* 1982;41:403-4.
30. Nelson JL, Bayer G, Templin D, Lanier A, Barrington R, Nisperos B, et al. **HLA antigens in Tlingit Indians with rheumatoid arthritis.** *Tissue Antigens* 1992;40(2):57-63.
31. Jose' Yelamos, J. Raul Garcia-Lozano, Isabel Moreno, Isabel Aguilera, M. Francisca Gonzllez, Alicia Garcia, et al. **Association of HLA-DR4-Dw15 (DRB1*0405) and DR10 with rheumatoid arthritis in a Spanish population.** *Arthritis and Rheumatism* 1993;36(6):811-4.
32. Carthy D, Ollier W, Papasteriades C, Pappas H, Thomson W. **A shared HLA-DRB1 sequence confers RA susceptibility in Greeks.** *European Journal of Immunogenetics* 1993;20(5):391-8.
33. Gregersen PK, Silver J, Winchester RJ. **The shared epitope hypothesis : An approach to understanding the molecular genetics of susceptibility to rheumatoid arthritis.** *Arthritis and Rheumatism* 1987;30:1205-13.

34. Winchester RJ, Dwyer E, Rose S. **The genetic basis of rheumatoid arthritis : The shared epitope hypothesis.** *Rheumatic Disease Clinics of North America* 1992;18 (4):761- 83.
35. ทัสสนี นุชประยูร. การวิจัยเชิงวิเคราะห์ และการใช้สถิติ.ใน ทัสสนี นุชประยูร , เต็มศรี ชำนิจารกิจ บรรณาธิการ. สถิติในการวิจัยทางการแพทย์. 2537:152-219.
36. J.D. Bignon, M.A. Fernandez-Vina : **Protocols of the 12th International Histocompatibility Workshop for typing of HLA class II alleles by DNA amplification by the polymerase chain reaction (PCR) and hybridization with sequence specific oligonucleotide probes (SSOP).** In : Dominique Charon, editor. *Genetic diversity of HLA Functional and Medical Implication : Medical and Scientific International Publisher, 1997:584-95.*
37. Quick-Type™ User's Manual : **HLA Class II (DR, DQ, DP) Sequence Specific Oligonucleotide typing (SSO).**
38. Dasnayanee Chandanayingyong, Henry A.F. Stephens, Rewadee Klaythong, Monchan Sirikong, Sudchai Udee, Ponimon Longta, et al. **HLA-A,-B,-DRB1,-DQA1, -DQB1 Polymorphism in Thais.** *Human Immunology* 1997;53:174-82.
39. Ratchaneewan Maneemaroj, Dasnayanee Chandanayingyong, Henry A.F. Stephens, Komon longta, Sasitorn Bejrachandra. **HLA Class II Allele Frequencies in Northern Thais(Kamphaeng Phet).** *Journal of the Medical Association Thai* 1997;80 Supplement 1:S20-24.
40. Pimol Chiewsilp, Kanchana Sujirachato, Kitti Rattanasombat, Tasanee Mongkolsuk, Sureeporn Junpong, Chaiyot Uden. **HLA in Southern Thai-Muslims.** *Journal of the Medical Association Thai* 1997;80 Supplement 1:S30-7.
41. C. Salvarani, P.L. Macchioni, W. Mantovani, M. Bragliani, E. Collina, T. Cremonesi, et al. **HLA-DRB1 alleles associated with rheumatoid arthritis in Northern Italy : Correlation with disease severity.** *British Journal of Rheumatology* 1998;37:165-9.

ภาคผนวก 1

ใบรวบรวมข้อมูลสำหรับผู้ป่วยโรคข้ออักเสบรูมาตอยด์

Hospital No. _____

ชื่อ-สกุล _____

อายุ _____ ปี

เชื้อชาติ _____

ระยะเวลาการเป็นโรคข้ออักเสบรูมาตอยด์ _____ ปี

อายุที่เริ่มเป็นโรคข้ออักเสบรูมาตอยด์ _____ ปี

Extraarticular manifestation _____

Functional Class at Dx. _____ at Present _____

Joint deformity Yes No

Drug No DMARD Corticosteroid

Lab Rheumatoid factor _____

X-ray both hands _____

HLA-DR4 subtype _____

ภาคผนวก 2

The American Rheumatism Association 1987
revised criteria for the classification of rheumatoid arthritis

Criterion	Definition
1. Morning stiffness	Morning stiffness in and around the joints, lasting at least 1 hour before maximal improvement
2. Arthritis of 3 or more joint areas	At least 3 joint areas simultaneously have had soft tissue swelling of fluid (not bony overgrowth alone) observed by a physician. The 14 possible areas are right or left PIP, MCP, wrist, elbow, knee, ankle and MTP joints
3. Arthritis of hand joints	At least 1 area swollen (as defined above) in a wrist, MCP or PIP joint.
4. Symmetrical arthritis	Simultaneous involvement of the same joint areas (as defined in 2) on both sides of the body (bilateral involvement of PIPs, MCPs or MTPs is acceptable without absolute symmetry)
5. Rheumatoid nodules	Subcutaneous nodules, over bony prominences or extensor surfaces or in juxtaarticular regions observed by a physician
6. Serum rheumatoid factor	Demonstration of abnormal amounts of serum rheumatoid factor by any method for which the result has been positive in < 5% of normal control subjects
7. Radiographic changes	Radiographic changes typical of rheumatoid arthritis on posteroanterior hand and wrist radiographs, which must include erosions or unequivocal bony decalcification localized in or most marked adjacent to the involved joints (osteoarthritis changes alone do not qualify)

For classification purposes, a patient shall be said to have rheumatoid arthritis if he/she has satisfied at least 4 of these 7 criteria. Criteria 1 through 4 must have been present for at least 6 weeks. Patients with 2 clinical diagnoses are not excluded. Designation as classic, definite, or probable rheumatoid arthritis is not to be made.

ภาคผนวก 3

**American College of Rheumatology revised criteria
for classification of functional status in rheumatoid arthritis**

- Class I : Completely able to perform usual activities of daily living
(self care, vocational and avocational)
- Class II : Able to perform usual self-care and vocational activities but limited in avocational activities.
- Class III : Able to perform usual self-care activities but limited in vocational and avocational activities
- Class IV : Limited in ability to perform usual self-care, vocational and avocational activities

Usual self-care activities include dressing, feeding, bathing, grooming and toileting.

Avocational (recreational and/or leisure) and vocational (work, school, homemaking) activities are patient-desired and age- and sex-specific.

Hockberg MC, Chang RW, Dwosh I, et al. The American College of Rheumatology 1991 revised criteria for the classification of global functional status in rheumatoid arthritis. *Arthritis and Rheumatism* 1992;35:498-502.

ประวัติผู้ทำวิทยานิพนธ์

ชื่อ นายแพทย์สิทธิชัย อุกฤษฏชน
ภูมิลำเนา กรุงเทพมหานคร
การศึกษา แพทยศาสตร์บัณฑิต เกียรตินิยมอันดับสอง
คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย
ปีการศึกษา 2535

พ.ศ. 2535-2539 แพทย์ใช้ทุนภาควิชาอายุรศาสตร์ คณะแพทยศาสตร์
มหาวิทยาลัยขอนแก่น

พ.ศ. 2539-2540 อาจารย์ภาควิชาอายุรศาสตร์ คณะแพทยศาสตร์
มหาวิทยาลัยศรีนครินทรวิโรฒประสานมิตร

พ.ศ. 2540-ปัจจุบัน แพทย์ประจำบ้านต่อยอด สาขาวิชาโรคข้อและรูมาติสซั่ม
ภาควิชาอายุรศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

