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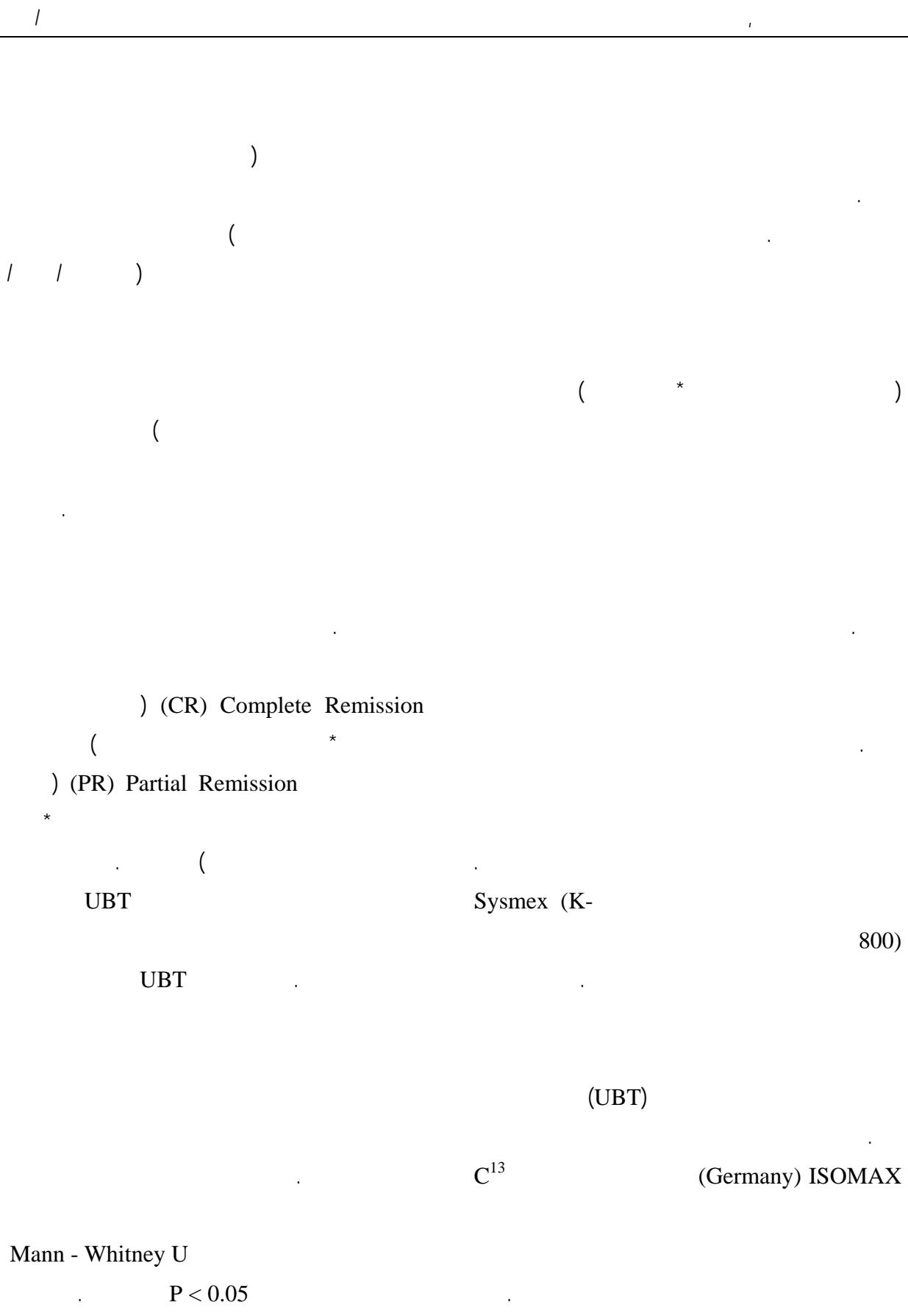
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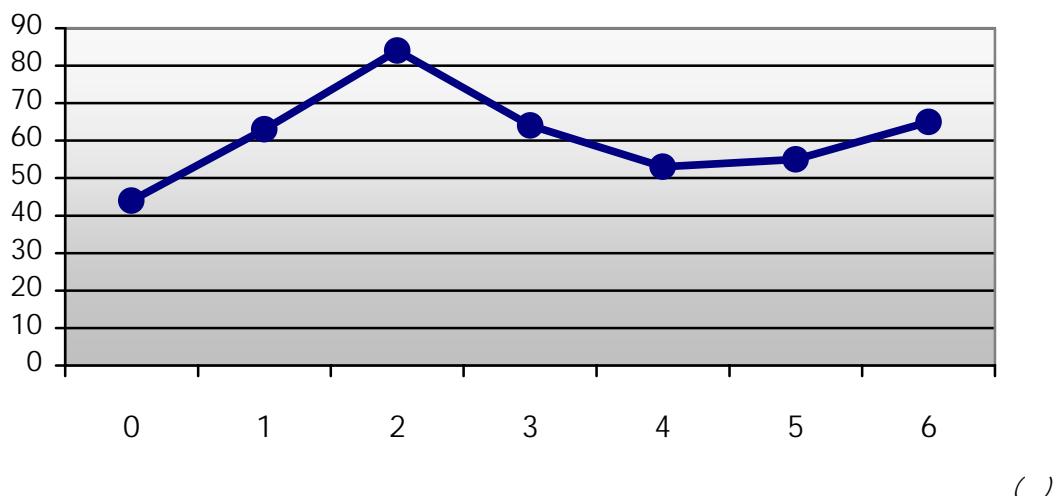
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## **REFERENCES**

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1. Nathan D, Ginsburg D, Orkin S, Look A. Nathan and Oski's Hematology of Infancy and childhood. 6<sup>th</sup> edition. Philadelphia: W.B.Saunders Company 2003. pp:325-45.
2. Mederios D, Buchanan G. Idiopathic thrombocytopenic purpura: Beyond Consensus. Curr Opin Pediatr 2000; 12 : 4
3. Zentilin PT, Savarino V, Garnero A, Accardo S, Seriolo B. Is *Helicobacter pylori* infection a risk factor for disease severity in rheumatoid arthritis? Gastroenterology 1999; 116: 503-4.
4. de Luis DA, Varela C, de La Calle H, Cantón R, de Argila CM, San Roman AL, et al. *Helicobacter pylori* infection is markedly increased in patients with autoimmune atrophic thyroiditis. J Clin Gastroenterol. 1998; 269(4): 259 – 263.
5. Figura N, Giordano N, Burroni D, Macchia G. Sjogren's syndrome and *Helicobacter pylori* infection. Eur J Gastroenterol Hepatol 1994;6:503-9.
6. Reinauer S, Megahed M, Goerz G, Ruzicka T, Borchard F, Susanto F, et al. Schonlein-Henoch purpura associated with gastric *Helicobacter pylori* infection. J Am Acad Dermatol 1995;33(5 Pt 2):876-9.
7. Jaing TH, Yang CP, Hung IJ, Chiu CH, Chang KW. Efficacy of *Helicobacter pylori* eradication on platelet recovery children with chronic idiopathic thrombocytopenic purpura. Acta Paediatr 2003;92(10):1153-7.
8. Gasbarrini A, Franceschi F, Tartaglione R, Landolfi R, Pola P, Gasbarrini G. Regression of autoimmune thrombocytopenia after eradication of *Helicobacter pylori*. Lancet 1998; 352(1931):878.
9. Emilia G, Longo G, Luppi M, Gandini G, Morselli M, Ferrar L, et al. *Helicobacter pylori* eradication can induce platelet recovery in idiopathic thrombocytopenic purpura. Blood 2001;97(3):812-4.
10. Kohda K, Kuga T, Kogawa K, Kanisawa Y, Koike K, Kuroiwa G, et al. Effect of *Helicobacter pylori* eradication on platelet recovery in Japanese patients with chronic idiopathic thrombocytopenic purpura and secondary autoimmune thrombocytopenic purpura. Br J Haemat 2002; 118 [2]: 584-8.
11. Hashino S, Mori A, Suzuki S, Izumiya K, Kahata K. Platelet recovery in patients with idiopathic thrombocytopenic purpura after eradication of *Helicobacter pylori*. Int J Hematol 2003;77(2):188-91.
12. Veneri D, Franchini M, Gottardi M, D'Adda M. Efficacy of *Helicobacter pylori* eradication in raising platelet count in adult patients with idiopathic thrombocytopenic purpura. Hematologica 2002;87:1177-9.

- 
13. Kurtoglu E, Kayacetin E, Ugur A. *Helicobacter pylori* infection in patients with autoimmune thrombocytopenic purpura. *World J Gastroenterol* 2004;10(14):2113-5.
  14. Veneri D, Krampera M, Franchini M. *Helicobacter pylori* infection and idiopathic thrombocytopenic purpura: description of 21 newly diagnosed cases. *Hematologica* 2004; 89(4): ECR08.
  15. Sato R, Murakami K, Watanabe K, Okimoto T. Effect of *Helicobacter pylori* eradication on platelet recovery in patients with chronic idiopathic thrombocytopenic purpura. *Arch Int Med* 2004;164:1904-7.
  16. Ando K, Shimamoto T, Tauchi T, Ito Y, Kuriyama Y. Can eradication therapy for *Helicobacter pylori* really improve the thrombocytopenia in idiopathic thrombocytopenic purpura? *Int J Hematol* 2003;77(3):239-44.
  17. Vakilli M, Faghihi A, Zargar-Koucheh A. Recovery of thrombocytopenia after eradication of *H.pylori* infection in chronic idiopathic thrombocytopenic purpura. *Iran J Med Sci* 2004;29(3):120-3.
  18. Michel M, Cooper N, Jean C, Frissora C. Dose *Helicobacter pylori* initiate or perpetuate immune thrombocytopenic purpura? *Blood* 2004;103(3):890-5.
  19. Rajantie J, Klemola T. *Helicobacter pylori* and idiopathic thrombocytopenic purpura in children. *Blood* 2003;101(4):1660.
  20. Jarque I, Andreu R, Lopis I, De La Rubia J, Gomis F, Senen TL. Absence of platelet response after eradication of *Helicobacter pylori* infection in patients with chronic idiopathic thrombocytopenic purpura. *Br J Haematol* 2001;115:1002-3.
  21. Cherif H, Khoshkar J, Stenk L, Hellstrom P. *Helicobacter pylori* in a cohort of 76 patients with immune thrombocytopenic purpura. *Haematol* 2005;8(1):94-8.
  22. Hayashi H, Okuda M, Aoyagi N. *Helicobacter pylori* infection in children with chronic idiopathic thrombocytopenic purpura. *Pediatr int* 2005;47:292-5.
  23. Shimoyama T, Crabtree J. Bacterial factor and immune pathogenesis in *Helicobacter pylori* infection. *Gut* 1998;43:2-5.
  24. Franceschi F, Christodoulides N, Kroll M, Genta R. *Helicobacter pylori* and idiopathic thrombocytopenic purpura. *Ann Intern Med* 2004;140(9):766-7.
  25. Veneri D, Gottardi M, Guzzardi E, Zanuso C. Idiopathic thrombocytopenic purpura, *Helicobacter pylori* infection and the HLA system. *Blood* 2002;100(5):1926-7.
  26. Emilia G, Luppi M, Morselli M, Giovanni. *Helicobacter pylori* infection and idiopathic thrombocytopenic purpura. *Br J Haematol* 2002;118(4):1198-9.
  27. Franchini M, Veneri D. *Helicobacter pylori* infection and immune thrombocytopenic purpura. *Haematologica* 2003;88(10):1087-90.
  28. Emilia G, Luppi M, Torelli G. *Helicobacter pylori* and idiopathic thrombocytopenic purpura. *Ann Intern Med* 2004;141(10):820.

- 
29. Asaumi N, Niiya K, Shibakura M, Yoshida C, Niiya M, TTanimoto M. Secondary eradication of *Helicobacter pylori* was effective against refractory idiopathic thrombocytopenic purpura. *Blood Coagul Fibrinolysis* 2003;14(80):785-6.
  30. Gasbarrini A, Franceschi F. Autoimmune disease and *Helicobacter pylori* infection. *Biomed Pharmacother* 1999;53:223-6.
  31. Hino M, Yamane T, Park K, Yakubo T. Platelet recovery after eradication of *Helicobacter pylori* in patients with idiopathic thrombocytopenic purpura. *Ann Hematol* 2003;82(1):30-2.
  32. Sato K, Nagai T, Muroi K, Komatsu N. *Helicobacter pylori* eradication in patients with idiopathic thrombocytopenic purpura. *Rinsho Ketsueki* 2004;45(12):1252-4.
  33. Kato A, Kato H, Hirashima N, Sakamoto T. Evaluation of the efficacy of an *Helicobacter pylori* eradication treatment for idiopathic thrombocytopenic purpura patients. *Nippon Shokakibyo* 2004;101(11):1209-16.
  34. Kohada K, Niitsu Y. *Helicobacter pylori* infection and idiopathic thrombocytopenic purpura. *Nippon Rinsho* 2003;61(4):644-9.
  35. Franchini M, Veneri D. *Helicobacter pylori* and immune thrombocytopenic purpura an update. *Helicobacter* 2004;9(4):342-6.
  36. Hashino S, Ota S, Kobayashi S, Tanaka J. Current status of treatment for patients with idiopathic thrombocytopenic purpura in Hokkaido area. *Rinsho Ketsueki* 2004;45(7):539-45.
  37. Ando T, Tsuzuki T, Mizuno T. Characteristics of *Helicobacter pylori*-induced gastritis and the effect of *H.pylori* eradication in patients with chronic idiopathic thrombocytopenic purpura. *Helicobacter* 2004;9(5):443-52.
  38. Jakson S, Beck P, Pineo G, Poon M. *Helicobacter pylori* eradication: novel therapy for immune thrombocytopenic purpura? *Am J Hematol* 2005;78(2):142-50.
  39. Takahashi T, Yujiri T, Shinohara K, Inoue Y. Molecular mimicry by *Helicobacter pylori* Cag A protein may be involved in the pathogenesis of *H. pylori*-associated chronic idiopathic thrombocytopenic purpura. *Br J Haematol* 2004;124(1):91-6.
  40. Kurekci A, Atay A, Sarici S, Ozcan O. Complete platelet recovery after treatment of *Helicobacter pylori* infection in a child with chronic immune thrombocytopenic purpura. A case report. *Pediatr Hematol Oncol*. 2004;21(7):593-6.
  41. Feigin R, Demmler G, Cherry J, Kaplan. Textbook of Pediatric Infectious Disease. 5<sup>th</sup> edition. Philadelphia: Saunders; 2004.
  42. Walker W, Durie P, Hamilton J, Walker J, Watkins J. Pediatric Gasterointestinal Disease. 3<sup>rd</sup> edition. Hamilton Canada: B C Decker; 2000.