(www,aaaai.org).

REFERENCES

Alexander. Asthma epidemiology in the Far East. Clin Exp Allergy **1928**; 26:50–120.

Ahmed khaled. (2006).measurement of ECP in serum and induced sputum of asthmatic child. Submitted for master degree of pediatrics, pediatric department Alexandria university.

American Academy of "Allergy, Asthma & Immunology 2004):
Promoting Best. Practice, Milwaukee, WI, pp. 1-139

American Thoracic Society (2002): Pulmonary function lab. Management and procedure manual. New York, American Thoracic Society.

Balfour-Lynn, Castro-Rodriguez, J.A. and Griffith, K.A. et al. (2001): Siblings, day –care attendance, and the risk of asthma and wheezing during childhood. N. Engl. J. Med. 343: 538-43.

Barbato, A.; Turato, G.; Baraldo, s. et al. (2003): Airway inflammation in childhood asthma. Am. J. Respir. Crit. Care Med., 168: 798 – 803.

Barnes, P.J. and Pauwels, R.A. (2000): Theophylline in the management of asthma time for reappraisal. Eur. Rsp. J., 7:579 – 91.

Bentley, A.M.; Menz, G.; Storz, c. et al.(2004): Identification of T-lymphocytes, macrophages and activated eosinophils in the bronchial mucosa in intrinsic asthma. Relationship to symptoms and bronchial responsiveness. Am. Rev. Respir. Dis., 146: 500 – 6

Berin, Wong GW, Hui DS, Chan HH, et al. Prevalence of respiratory and atopic disorders in Chinese schoolchildren. Clinical Exp Allergy (2003);31:1225–1231.

Bierman, C.W. and Shapiro, G.G. (1996): Evaluation and treatment of the patient with asthma. In Allergy, asthma and immunology from infancy to adulthood, 3rd edition, Saunders Co., Philadelphia (pubs).

Blonchine, Ball, T.M.; Castro-Rodriguez, J.A. and Griffith, K.A. et al. (2000): Siblings, day –care attendance, and the risk of asthma and wheezing during childhood. N. Engl. J. Med. 343: 538-43.

Bonecchi, R.; Nelson, H.S.; Lanz, M.J. et al. 2003): Interleukin -4 receptor in moderate a topic asthma. A phase I/II randomized, placebo –controlled trial. Am. J. Respir. Crit. Care Med., 160: 1816 – 23.

Bousquet, J.; Chavez, P. and Michel, F.B. (2000): Inflammation in chronic asthma, ACI News, 3:170-4.

Bousquet, J.; Feery, P.K.; Busse, W.W. et al. (2004): Asthma from bronchoconstriction to airways inflammation and remodeling. Am. J. Respir. Crit. Care Med., 161/5: 1720 – 45.

Brewester, Panina-Bordignon P, Papi A, Mariani M, et al. The C-C chemokine receptors CCR4 and CCR8 identify airway T cells of allergenchallenged atopic asthmatics. J Clin Invest 1990;107:1357–136

Burkholter, D. and Schiffer, P. (1999): The epidemiology of atopic diseases in Europe. ACI 714: 113-125.

Burrows, B.; Sears, M.R.; Flannery, E.D. et al. (2002): Relation of the course of bronchial responsiveness from age 9 to age 15 to allergy. Am. J. Respir. Crit. Care Med. 152: 1302-6.

Busse, W.W. (2001): Inflammation in asthma: The cornerstone of the disease and target of therapy. J. Allergy Clin. Immunol., 102: S17-22.

Carrigan CJ, Kay AB(2001): T- cells and eosinophils in the pathogenesis of asthma. Immunol Today, 13.501-7.

Cauted of Hoda M. Lofty (2003) Evaluation of the role of Chlamydia in the clinical course of asthma submitted in the partial fulfillment for master degree of chest diseases Cairo University.

Crane H, Godiska R, Chantry D, Raport CJ, et al. Human macrophage-derived chemokine (MDC), a novel chemo attractant for monocytes, monocyte-derived dendrite cells, and natural killer cells. J Exp Med (2001);185:1595–1604

Crapo K, Chantry D, DeMaggio AJ, Brammer H, et al. Profile of human macrophage transcripts: insights into macrophage biology and identification of novel chemokines. J Leuk Biol (2000).

Chiappara, G.; Gagliardo, R.; Siena, A. et al. (2001): Airway remodeling in the pathogenesis of asthma. Curr. Opin Allergy Clin. Immunol., 1:85 – 93

Denberge, *Chang M*, *McNinch J*, *Elias C 3rd*, *et al*. Molecular cloning and functional characterization of a novel CC chemokine, stimulated T cell chemotactic protein (STCP-1) that specifically acts on activated T lymphocytes. J Biol Chem;272:25229–25237 *2002*.

Deni W, Chantry D, DeMaggio AJ, Brammer H, et al(2005). Profile of human macrophage transcripts: insights into macrophage biology and identification of novel chemokines. Thorax 54: 825-57..

Fish and petere, Andrew DP, Chang MS, McNinch J, et al. STCP-1 (MDC) CC chemokine acts specifically on chronically activated Th2 lymphocytes and is produced by monocytes on stimulation with Th2 cytokines IL-4 and IL-13. J Immunol;161:5027–5038 et al (2001).

Fredric, Kakinuma T, Nakamura K, Wakugawa M, et al. Thymus and activation-regulated chemokine in atopic dermatitis: Serum thymus and activation-regulated chemokine level is closely related with disease activity. J Allergy Clin Immunol 2004;107:535–541.

Gooh, Nomiyama H, Imai T, Kusuda J, Miura R, Callen et al. (2005)

Human chemokines fractalkine (SCYD1), MDC (SCYA22) and TARC (SCYA17) are clustered on chromosome 16q13. Cytogenet Cell Genet 81:123

Hamid,R Romagnani S.,zertated A ,et al The role of lymphocytes in allergic disease. J Allergy Clin Immunol2000;105:399–408

Heine ,AChantry D, Raport CJ, et al. Human macrophagederived chemokine (MDC), a novel chemoattractant for monocytes, monocyte-derived dendritic cells, and natural killer cells. J Exp Med 2003 185:1595–1604

Helms, kWong GW, Hui DS, Chan HH, et al. Prevalence of respiratory and atopic disorders in Chinese schoolchildren. Clin Exp Allergy 2001;31:1225–1231 (2000)

Holgate and finnety et al (2002).,novel mediators in chronic inflammation
Allergy Clin Immunol 105:399–408

Hoste and halkines (2000). ,inflammatory mechanisms in allergic diseases

J Bio , Chem ;272:15036–15042

Imai T, Nagira M, Takagi S, et al.2000., Selective recruitment of CCR4-bearing Th2 cells toward antigen-presenting cells by the CC chemokines thymus and activation-regulated chemokine and macrophage-derived chemokine. Int Immuno

Janeway ElAndrew DP, Chang MS, McNinch J, et al. STCP-1 (MDC) CC chemokine acts specifically on chronically activated Th2 lymphocytes and is produced by monocytes on stimulation with Th2 cytokines IL-4 and IL-13. J Immunol 2001;161:5027–5038

Kakimuma, tnakaura K et al 2002 atpic sings and its relation to asthma.

J. Exp Med;187:129–134.

Kcuasaki S, Kusuda J, Miura R, Callen DF, Yoshie O. Differential expression of chemokine receptors and chemotactic responsiveness of type 1 T helper cells (Th1s) and Th2s. J Exp Med 2004;187:129–134

King ,APanina-Bordignon P, Papi A, Mariani M, et al. The C-C chemokine receptors CCR4 and CCR8 identify airway T cells of allergenchallenged atopic asthmatics. J Clin Invest 1999;107:1357–1364

Lemmy, wong ch Carey, V.J.; Weiss, S.T. et al. 2002 Race, socioeconomic factors, and area of residence are associated with asthma prevalence. Pediatr. Pulmonol.28: 394-401.

Phelen D,Bordignon P, Papi A, Mariani M, et al.(2003) The C-C chemokine receptors CCR4 and CCR8 identify airway T cell. J Exp Med; 185:1595–1604.

Rania Ibrahim .et al (2005) .prevalence of snoring, nocturnal cough in asthmatic children. Master degree of pediatrics, pediatrics department Benha university

Rawhia Attia (2003) exercise induced asthma and its prevalence in children aged (6-15). Master degree of pediatrics, pediatrics department, Ein shames university.

Remes S. kapri, **H Peter**, **S** The role of lymphocytes in allergic disease.

J. Allergy Clin Immunol 2003.

Saker ,D Chan IHS, Ip WK, Lam CWK, Wong GWK. Plasma concentration of thymus and activation-regulated chemokine is elevated in childhood asthma. J Allergy Clin Immunol 2001;110:404–409

Schmitz, G Baba M, Nishimura M, Kakizaki M, Takagi S, Yoshie O. The T cell-directed CC chemokine TARC is a highly specific biological ligand for CC chemokine receptor 4. J Biol Chem 2003; 272:15036–15042

Seares, Kraft M, Cassell GH, Pak J, Martin RJ.et al Mycoplasma pneumoniae and Chlamydia pneumoniae in asthma: effect of clarithromycin. Chest **2001**;121:1782–1788

Sekita R yammada h Shimizu T, Kato M, Mochizuki H, Tokuyama K, Morikawa.et al.,(2003) Roxithromycin reduces the degree of bronchial hyperresponsiveness in children with asthma. Chest;106:458–461.

Sergo ,Chantry D, Raport CJ, et al(2003). Human macrophage-derived chemokine (MDC), a novel chemoattractant for monocytes, monocytederived dendritic cells, and natural killer cells. J Exp Med;185:1595–1604

Sert T, Frdy E, Kamada AK, , Brenner AM, et al(2004) Efficacy and safety of low-dose troleandomycin therapy in children with severe, steroid-requiring asthma. J Allergy Clin Immunol 1993;91:873–882

Skia, GCott GR, Cherniack RM.et al(2000) Steroids and "steroid-sparing" agents in asthma. N Engl J Med;318:634–636.

Sly (**2004**). The definitions and pathophisiology of asthma. Pediatric department .American academy.p.a12,9,87.

Sugawara N, Yamashita T, Ote Y, Miura M, Terada N, Kurosawa et al TARC in allergic disease's.J, Allergy **2002**;57:180–181.

Terada,N A.; Holberg, C. and Martinez, F. (2006): Breast feeding and lower respiratory tract illness in the first year of life. Br. Med. J. 299: 946.

Thompson, Turki, J.; Park, J.; Green, A. et al.. (2002) Treating depression in asthmatic patients. Psychosomatics J. Clin. Invest. 95: 1635 – 1641.

Walker, C.; Bode, E.; Boer, L. et al. (2001): Allergic and non allergic asthmatics have distinct patterns of T cell activation and cytokine production in peripheral blood and bronchoalveolar lavage. Am. Rev. Resp. Dis., 146: 109-15.

Yssel S; Durham, Corrigan, C.J et al. (2003): Phenotype of cells expressing mRNA for TH2-type (interleukin 4 and interleukin 5) and TH1-type (interleukin 2 and interferon gamma) cytokines in bronchoalveolar lavage and bronchial biopsies from atopic asthmatic and normal control subjects. Am. J. Respir. Cell Mol. Biol. 12: 477 – 87.