

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قال الله تعالى

اَعْلَمُوا اَنَّمَا الْحَيَاةُ الدُّنْيَا لَعِبٌ وَلَهُوَ وَزِينَةٌ وَتَفَاقُّرٌ
يَنْتَكُمْ وَتَكَاثُرٌ فِي الْاَمْوَالِ وَالْاُوْلَادِ كَمَثَلِ عَيْنٍ
أَغْبَبَ الْكُفَّارَ تَبَاعُهُ ثُمَّ يَهْيَخُ فَتَرَاهُ مُصْفَرًّا ثُمَّ
يَكُونُ حُطَاماً وَفِي الْاَخِرَةِ عَذَابٌ شَدِيدٌ وَمَغْفِرَةٌ
مِنَ اللَّهِ وَرِضْوَانٌ وَمَا الْحَيَاةُ الدُّنْيَا اِلَّا مَتَاعُ الْغُرُورِ
(20) سَابَقُوا إِلَى مَغْفِرَةٍ مِنْ رَبِّكُمْ وَحْتَهُ عَزْرَصُنَاهَا
كَعْرَضَ السَّمَاءُ وَالْاَرْضُ اُعِدَّتْ لِلَّذِينَ اَمْنُوا بِاللَّهِ
وَرُسُلِهِ ذَلِكَ فَضْلُ اللَّهِ يُؤْتَيْهِ مَنْ يَشَاءُ وَاللَّهُ ذُو
الْفَضْلِ الْعَظِيمِ (21)

صدق الله العظيم

سورة الحديد الآيات 21-20

Dedication:

I offer this dedication to;

My parents who encourage me to educate.....

My teachers in all level of education.....

Brothers & sisters.....

Abd- almoniem.....

Tasabih Elhadi.....

Mohammed.....

All my friends.....

All creations.....

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Abstract

This is a case control study conducted at Khartoum state during the period between March to August 2012. It was on hundred individuals, fifty of them were normal individuals and the other fifty were asthmatic patients.

Sputum was collected, smeared fixed in absolute alcohol, and stained with May Grun Wald Giemsa Stain.

Fifty out of the hundred involved individuals were males, the other fifty were females.

Among case group 25 male were used; 10, 11, 4, showed acute, chronic, no inflammatory infiltrate respectively.

However among 25 female; 12, 9, 4, showed acute, chronic, no inflammatory infiltrate respectively.

Among the case group; 22(44%) of them showed acute inflammatory infiltrate, 20(40%) showed chronic inflammatory infiltrate and 8(16%) showed no inflammatory infiltrate.

While among the control group 3 (6%) showed acute inflammatory infiltrate and 47 (94%) showed no inflammatory infiltrate.

The present study concluded a significant relation between asthma and inflammatory infiltrate, the bronchial asthma is usually associated with increasing in inflammatory cell. (P. value 0.00)

The present study showed no association between asthma and age of patients (p. value .099); gender (p. value .48) or smoking (p.value = 0.15).

No association between duration of asthma and cytomorphological changes in sputum smear (p. value = 0.70).

هذه دراسة حالة ، أجريت في ولاية الخرطوم في الفترة ما بين مارس حتى أغسطس 2012 . أجريت لمائة شخص ، منهم 50 شخص أصحاء (عينات ضابطة) و 50 شخص مرضى بالربو (عينات الدراسة) .

جمعت عينات البلغم وتم تجهيز مسحة من كل عينة ثم صبغت بصبغة الماي قرون وولد جيمسا مع استخدام 100% ميثانول كمثبت للصبغة .

استخدمت الدراسة عدد 50 ذكراً وبلغ عدد الإناث 50 .

شملت الدراسة عدد 25 مصاباً بالربو أظهرت النتائج الآتية 10 من المرضى مصابون بالتهاب حاد، 11 التهاب مزمن، 4 لم تظهر الخلايا التهابية بينما أظهرت الإناث والبالغ عددهم 25 : التهاب حاد، 12، التهاب مزمن 9 و 4 لم تظهر الخلايا التهابية.

أظهرت الدراسة وجود الخلايا التهابية في عينات الدراسة 22 (44%) التهاب حاد، 20 (4%) التهاب مزمن ، 8 (16%) لم تظهر الخلايا التهابية .

أما العينات الضابطة فأظهرت التالي 3 (6%) التهاب حاد و 47 (94%) لم تظهر الخلايا التهابية .

ووجدت الدراسة أنه توجد علاقة ذات دلالة احصائية بين الإصابة بالربو والتغييرات الخلوية في البلغم ($\text{ع} = 0.00$) مع عدم وجود علاقة بين التغييرات الخلوية والعمر ($\text{ع} = 99$) ونوع الجنس (ذكر أو أنثى) ($\text{ع} = 48$) والتدخين ($\text{ع} = 015$).

ووجدت الدراسة أيضاً أنه لا توجد علاقة ذات دلالة احصائية بين التغييرات الخلوية في البلغم ومدة الإصابة ($\text{ع} = 070$)

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List of abbreviations:

APUD	Amino precursor uptake decarboxylation
BA	Bronchial asthma
BAL	Broncho- alveolar lavage
D.P.X	Dibutyl phthalate polystyrene xylene
FNA	Fine needle aspiration
HETE	Hydroxyl Eicosat Tetra Enoic acid
ICD	International disease code
IgE	Immunoglobulin E
MGG	May grun wald giemsa
PEf	Peak expiratory flow rate
SPSS	Statistical package of social science