

## IDENTIFIKASI *Aspergillus sp* PADA PASIEN PENYAKIT ASMA BRONKIAL DI RSUD CIAMIS<sup>1</sup>

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### INTISARI

Penyakit asma bronkial merupakan kelainan saluran pernapasan yang bersifat kronis melibatkan interaksi kompleks sel-sel inflamasi mediator, sel dan jaringan, berakibat mengurangnya aliran udara karena bronkokonstriksi edema, sekresi mucus, dan hiperresponsif. Faktor pemicu asma kecenderungan genetik dengan lingkungan terhadap zat dan partikel yang di hirup dapat memicu reaksi alergi. Alergi biasanya disebabkan oleh tungau, debu rumah, serbuk sari, asap rokok, iritasi kimia, polusi udara dan jamur. Jamur yang menyebabkan alergi yaitu jamur *Aspergillus sp.* jamur *Aspergillus sp* merupakan jamur sistemik yang dapat menyerang organ dalam seperti paru-paru.

Tujuan penelitian yaitu untuk mengetahui keberadaan *Aspergillus sp* pada pasien penyakit asma bronkial di RSUD Ciamis.

Penelitian ini bersifat deskriptif, sampel yang digunakan yaitu sputum pasien asma bronkial yang menjalani pengobatan rawat jalan dan rawat inap di RSUD Ciamis sebanyak 30 orang. Sampel dilakukan pemeriksaan di laboratorium parasitologi STIKes Muhammadiyah Ciamis.

Hasil penelitian terhadap sputum pasien asma bronkial di RSUD Ciamis dengan metode pembiakan jamur didapatkan hasil positif *Aspergillus sp* sebanyak 11 orang di antaranya *Aspergillus fumigatus* 8 orang (26,6%) dan *Aspergillus niger* 3 orang (10%).

Kata kunci : Asma Bronkial, *Aspergillus sp*, *Aspergillus fumigatus*, *Aspergillus niger*, jamur sistemik  
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## IDENTIFICATION OF *Aspergillus sp* IN BRONCHIAL ASTHMA PATIENTS IN CIAMIS HOSPITAL<sup>1</sup>

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### ABSTRACT

Bronchial asthma is a chronic respiratory tract disorder involving complex interactions of inflammatory mediator cells, cells and tissues, resulting in reduced airflow due to bronchoconstriction edema, mucus secretion, and hyperresponsiveness. Asthma trigger factors, genetic predisposition with the environment to inhaled substances and particles can trigger allergic reactions. Allergies are usually caused by mites, house dust, pollen, cigarette smoke, chemical irritants, air pollution and mold. The fungus that causes allergies is *Aspergillus sp*. *Aspergillus sp* is a systemic fungus that can attack internal organs such as the lungs.

The purpose of the study was to determine the presence of *Aspergillus sp* in patients with bronchial asthma at Ciamis Hospital.

This research is descriptive, the sample used is sputum of bronchial asthma patients who undergo outpatient and inpatient treatment at Ciamis Hospital as many as 30 people. Samples were examined in the parasitology laboratory of STIKes Muhammadiyah Ciamis.

The results of the study on sputum of bronchial asthma patients at Ciamis Hospital using the fungi culture method showed positive results for *Aspergillus sp* as many as 11 people including *Aspergillus fumigatus* 8 people (26.6%) and *Aspergillus niger* 3 people (10%).

Key words : Bronchial asthma, *Aspergillus sp*, *Aspergillus fumigatus*, *Aspergillus niger*, systemic fungi

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Description : 1 Title, 2 Student Names, 3 Supervisor I Names, 4 Supervisor II Names