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Missed School Days: A Correlational Study Between Children with Asthma and Presence of School Nurses

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**Abstract**

"Asthma is one of the leading causes of school absenteeism" (Meng, Babey, & Wolstein, 2012). Currently, there is a lack of research on the relationship between full-time nurse presence in schools and absenteeism among school-aged children with asthma. The purpose of this paper is to determine the correlation between the amount of time school-aged children are absent and the amount of time a school nurse is absent.

**Purpose**

To determine the correlation between the amount of time school-aged children are absent and the amount of time a school nurse is absent.

**Aim**

To conduct a non-experimental quantitative descriptive correlational research study yielding data that indicates a positive correlation between the absence of nurses and the absence of school-aged children with asthma.

**Hypothesis**

A higher presence of school nurses in elementary schools will increase the attendance rates of asthmatic children between 5-11.

**Background**

- Asthma = one of the most prevalent childhood illnesses
- When school nurse is absent, responsibility falls on teachers & faculty
- Lack of research on this topic in the Chesapeake school district

**Significance**

- Current Asthma Prevalence in 2015
- CDC National Surveillance of Asthma (CDC, 2013)
- Lucas, Anderson & Hill, 2012
- Jaramillo & Reznik, 2015

**Data**

- Children 5-11 years old: 3,021,000 or 10.6% of the total population
- Children 5-17 years old: 13.8 million school days missed
- Percentage of teachers that received asthma training: Only 32.4%
- Percentage of teachers who were unfamiliar with school asthma policies/failed an asthma questionnaire: 67% of teachers scored a grade between 50%-59%

**Methods**

- Design: nonexperimental quantitative descriptive correlational study
- Population: school-aged children (5-11) with chronic asthma
- Sample: 14 out of 28 primary and elementary schools of the Chesapeake public schools district will be randomly selected
- Schools will be given a demographic survey covering a short period of time
- Survey will ask: number of asthmatic children enrolled in the school, number of absences of said children, hours weekly the school nurse is present, and number of absences of asthmatic children when the nurse is not present
- Data analysis: a single-sample t-test with an alpha of 0.05

**Discussion**

- Proper symptom management = adequately trained caregivers well-versed in what to expect in the asthmatic child, the potential complications, and how to intervene when health state becomes critical
- School nursing staff has primary responsibility of this domain often influencing whether the child is able to return to class when symptoms flare up or even be in school at all.
- There is a lack of research in the local community of the Chesapeake school district in the correlation between school nurse presence and asthmatic student attendance.

**Interprofessional Roles and Responsibilities**

- Educate the family on issues related to chronic asthma and the importance of having a RN in schools to decrease absentee days due to asthma
- Advocate on behalf of the students affected by asthma and ensure they receive all care possible
- Collectively as a team, we can develop workshops and seminars to educate the administrators, teachers and parents on the importance of having RNs at schools to administer medication in an effort to reduce the number of absentee days related to chronic asthma
- Coordinate with parents and school nurse to ensure students are adequately accommodated to stay for the full school day
- In collaboration with administrators, organize fund raisers if resources for equipment are limited

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**Literature Cited**


Retrieved from: https://www.cdc.gov/asthma/most_recent_data.htm