

Increase in Number of Motor Vehicles & COPD Prevalance in Java Island Indonesia: An Ecological Study

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Abstract

Pollution exposure due to an increase in motorized vehicles is suspected to cause the prevalence of COPD cases in six provinces on Java island. This study aimed to assess the association between the increase in the number of motor vehicles and the prevalence of COPD in six provinces of Java island in 2013. The method used in this study is ecological studies, data on COPD prevalence were obtained from Indonesia's annual health survey (RISKESDAS) and data on the number of motor vehicles was obtained from the 2013 National Transportation Statistics. The results showed a strong relationship ($r = 0.649$) between an increase in the number of motor vehicles and the prevalence of COPD cases in six provinces on the island of Java. The conclusion of this research that the government of Indonesia should build a strong regulation about the limitation of every individual to have more than 1 motor vehicles, so that in the coming year there will be no more increase in the number of motorized vehicles.

Speaker Publications:

1. "Observations on Zooplankton Distribution in a Tropical River Dam-Basin (Gebel Aulia, White Nile, Sudan)"; JSTOR./1968 / Volume 37, Issue 1(1968) 185-198
2. "AMIGO and friends: An emerging family of brain-enriched, neuronal growth modulating, type I transmembrane proteins with leucine-rich repeats (LRR) and cell adhesion molecule motifs"; Brain Research Reviews/ Vol 51,issue 2 (2006) 265-274
3. "Pengaruh pembiayaan jual beli, pembiayaan bagi hasil, dan rasio non performing financing terhadap profitabilitas bank umum syariah di indonesia"; iqtishoduna, Volume 8, Issue 1, 2012, 2614-3437.
4. "A Structural and Tectonic Model of the Coastal Plains Block, Central Sumatra Basin, Indonesia"; AAPG, Vol 1, 1993, 285-317
5. "A note on upper quaternary sub-fossil mollusca west of jebel aulia"; JSTOR/ Vol 54, 1973, Pages 168-172

8th Global Summit and Expo on Pollution Control:

Webinar- August 24-25, 2020, 2020.

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Biography:

Aulia Salmaddiina currently study in Environmental Health Major, Faculty of Public Health Universitas Indonesia. Her strong passion in research about environmental health with participate on Health impact assessment team about contamination of heavy metal in Leuwiliang, Bogor Indonesia. Also participate on drafting indicators for healthy market collaboration with Indonesia government agencies.