Proceeding

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PRELIMINARY SYNTHESIS OF CALCIUM CARBONATE USING CO2 BUBBLING METHOD FOR BIOMEDICAL APPLICATION
N.H. Azzakiroh¹, Z. Hasratiningsih², I.M. Joni³, A.Cahyanto²  

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The Progression Research Of Allium Sativum In Dentistry

Eriska Riyanti¹, Mieke H Satari², Meirina Gartika¹

¹Pediatric Dentistry Department Faculty Of Dentistry Universitas Padjadjaran
²Oral Biology Department Faculty Of Dentistry Universitas Padjadjaran

ABSTRACT

Allium Sativum is a traditional plant which grows in many places in Indonesia. Some research showed that Allium Sativum has medicinal potentiality, especially for antibacterial. Recently, Allium Sativum will be used in dentistry too based on the result of research that was conducted in many countries. The aim of this study was to explain an update research related to Allium Sativum that consists of composition and medicinal potentiality. In Indonesia, there are many types of Allium Sativum that can be found for example multi-layer and single-layer. Antibacterial potential also that Allium Sativum is used for dentistry material. Streptococcus Mutans as one of normal oral microflora will be decreased in blood fusion. The next research will be focused on used of Allium Sativum for mouthwash or caries prevention. Many experts make research based on potentially and antibacterial, not only in laboratory but in clinical that will be prepared in packaging.

Keywords: Allium Sativum, Antibacterial, Medical Potentiality, Oral Microflora

INTRODUCTION

Garlic (Allium sativum) has a wide range of therapeutic effects on the cardiovascular system, antibacterial, anti-fungal, anti-viral, antibiotics, anticancer, antioxidant, immunomodulator, anti-inflammatory, and hypoglycemic effects. The main content of Allium sativum is allicin which produced by enzyme allinase garlic when crushed. Garlic can be extracted to obtain the active ingredients contained there include allicin, ajoene diallysulfide, S-allicylcysteine, enzymes, saponins, and flavonoid.¹

Result of some research showed that garlic can be used for infectious diseases. Garlic is available in capsules and powder, as additives or supplements. Allium sativum showed effect of broad spectrum antibiotics against Gram positive and Gram negative.¹²

Sulfur compounds in garlic extract is known to inhibit the growth of Streptococcus mutans in dental plaque so that the acid product of these bacteria can be inhibited. Acid as