

ABSTRAK

PERKEMBANGAN FETUS MENCIT (*Mus musculus L*) PADA MASA ORGANOGENESIS TERHADAP LAMANYA PAPARAN ASAP ROKOK

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Rokok merupakan salah satu faktor lingkungan yang dapat menyebabkan cacat lahir. Kebiasaan merokok pada wanita hamil dapat menyebabkan abortus spontan dan kematian janin prenatal, bahkan dapat menyebabkan meromelia. Nikotin pada rokok menimbulkan kontraksi pada pembuluh darah, akibatnya aliran darah ke janin melalui tali pusat janin akan berkurang, sehingga mengurangi kemampuan distribusi zat makanan yang diperlukan oleh janin. Selain itu akibat karbon monoksida yang terkandung dalam asap rokok akan mengurangi kerja haemoglobin yang mestinya mengikat oksigen untuk disalurkan ke seluruh tubuh, sehingga rokok akan mengganggu distribusi zat makanan serta oksigen ke janin, meningkatkan resiko kelahiran bayi dengan berat badan kurang dari 2500 gram. Radikal bebas akan merusak tiga komponen molekul utama dari sel tubuh yaitu lipid, protein dan DNA.

ABSTRACT

DEVELOPMENT OF THE FETUS OF MICE (*Mus musculus L*) ORGANOGENESIS OF LONG EXPOSURE TO CIGARETTE SMOKE

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Smoking is one of the environmental factors that could be caused disability born. Smoking habits in pregnant women could be caused spontaneous abortion and prenatal fetal death, may even lead to meromelia. Influence Cigarette smoking was a direct result of the nicotine contained in it. This nicotine causes contraction of blood vessels, resulting in blood flow to the fetus through the fetal umbilical cord could be decreased, thereby reducing the ability distribution of nutrients needed by the fetus. In addition, due to carbon monoxide contained in cigarette smoke would be reduced work hemoglobin which should bind oxygen to be distributed throughout the body, so that smoking will interfere with the distribution of nutrients and oxygen to the fetus, increases the risk of having a baby weighing less than 2500 grams. Free radicals would be damaged the three main molecular components of body cells, namely: lipids, proteins and DNA. Damage to lipids in each oxidation and in the basic process of cellular DNA oxidation would be disrupted the integrity of the cell, so that it would becaused cell death