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目 次

原 著／論 文

Serial Variations in Serum Hepatic Profiles among Occupational Pesticide  
Sprayers :Multilevel Analyses of 14-Year Health Check-up Data

Takaaki Kondo, Jun Ueyama, Yukio Fukaya, Masahiro Goto … 1

エンドトキシン誘発性肝薬物代謝酵素の発現低下における一酸化窒素の関与

上山純・近藤高明・深谷幸生・長谷川高明 … 9

食物アレルギーをテーマとしたクリスマスパーティーの取り組みと教育的効果

小野内初美・有尾正子・渡辺香織・大土早紀子・山本景子・安藤京子 …17

介護における高齢者虐待に関する意識調査

柴田益江 …25

母親の育児負担感に関する調査

小木曾 加奈子 …35

沖縄戦記序説（XIII）－軍隊と民衆－

野 部 弘 …(1)

研究ノート

介護職員,看護師,一般企業の従業員を対象とした職務満足感に関する先行研究

レビュー

椎 名 知づる…61

本学専任教員業績一覧（2006年） …81

Serial Variations in Serum Hepatic Profiles among Occupational Pesticide

Sprayers : Multilevel Analyses of 14-Year Health Check-up Data

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Key words: Pest control, Organophosphate, Liver function, Random-effects model

Abstract

The purpose of this study is to examine the serial changes of hepatic profiles among occupational pest control operators (PCOs).

Subjects were 711 male PCOs who participated at least once in the health check-up programs conducted biannually between the winter of 1989 and winter of 2002 for cumulative participants totaling 2,272. Multilevel modeling was applied to analyze the effect of elapsed time on repeatedly measured AST, ALT,  $\gamma$ -GTP, total protein, and cholinesterase (ChE) nested within individuals over time with multivariate adjustment for age, body mass index, and the season of health examinations (winter or summer).

The serial trend of ChE was shown to be on a significant yearly increase which was not confirmed in the changes in other hepatobiliary enzymes.

This result suggests that the family of pesticides to which PCOs were exposed has shifted from ChE-inhibiting organophosphates to the sodium channel-modulating pyrethroids. Further studies designed to match the non-exposed control population are required to treat the effect of confounding factors on seasonal variations of hepatic profiles.