2013-2015 年疑似中毒案件之有機磷類與氨基甲酸鹽類農藥檢測

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摘要

2013-2015 年受理之動物疑似中毒案件共計 198 件，經以氣相層析質譜儀（Gas Chromatography-Mass Spectrometry, GC/MSD）與高效液相層析儀（High Performance Liquid Chromatography, HPLC）分別進行有機磷（organophosphates）與氨基甲酸鹽類（carbamates）農藥之檢測，結果有 84 件檢出氨基甲酸鹽類農藥，2 件檢出有機磷類農藥。檢出之農藥以加保扶（carbofuran）達 50 件最多，其次有 30 件檢出納乃得（methomyl），4 件同時檢出納乃得與加保扶，2 件檢出福瑞松（phorate） 。檢出案件中涉及的動物以犬（59 件，68.60%）最多，其次為鳥類（16 件）、貓（9 件）、魚（1 件）。

Detection of organophosphate and carbamate pesticides from animal poisoning suspected cases from 2013 to 2015

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Abstract

There are 198 animal poisoning suspected cases submitted to our institute from 2013 to 2015. These cases were detected for organophosphate and carbamate pesticides, respectively by gas chromatography/mass spectrometry(GC/MSD) and high performance liquid chromatography(HPLC). The results revealed that carbamate pesticides were detected in 84 cases and organophosphate pesticides were found in 2 cases. Carbofuran was the main pesticide and identified in 50 cases. Other detected compounds were followed by methomyl in 30 cases, methomyl and carbofuran in 4 cases, phorate in 2 cases. Dogs were the predominant (68.60%, 59 cases) animal species involved in those poisoning cases. Furthermore, other related animal species included birds in 16 cases, cats in 9 cases and fish in 1case.