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JAN 21 2004



A2004 - 00236

7280

Decedent: ALLEN, KAYLA
Age: 7
Gender: F
Race: Caucasian
SSN:

Autopsy Number: ME03-222
Date/Time Performed: 8/25/03 09:00

Medical Examiner Authorization: WILLIAM F. KELLY, MD

County Received From: ONSLOW

Body Identified By: TAG LEFT ANKLE

Present at Autopsy: OLIVER ROBERTS, DIENER AND DETECTIVE RICHARDSON, DETECTIVE CRUMPLER AND DETECTIVE GARVEY OF THE ONSLOW COUNTY SHERIFF'S DEPARTMENT

Prosecutor: WILLIAM F. KELLY, M.D.

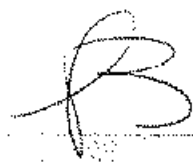
PATHOLOGIC DIAGNOSES

1. INGESTION OF INSECTICIDE (PERMETHRIN PRODUCT).
2. ASPIRATION OF STOMACH CONTENTS.
3. SUBGALEAL CONTUSION, LEFT PARIETAL AREA, 2.0 CM.

CAUSE OF DEATH

INSECTICIDE POISONING.

Electronically Signed Out By WILLIAM F. KELLY, M.D.

 1/23/04

EXTERNAL DESCRIPTION

BODY CONDITION: GOOD

LENGTH: (INCHES) 49

WEIGHT: (POUNDS) ESTIMATED 50

BODY HEAT: COOL

RIGOR: 3+

LIVOR: POSTERIOR

HAIR: BLOND

EYES: BLUE WITH 8 MM. PUPILS BILATERALLY

TEETH: NATIVE IN GOOD REPAIR

FACIAL HAIR: NONE

EXTERNAL GENITALIA: NORMAL FEMALE WITH NO EVIDENCE OF TRAUMA

TATTOOS: NONE

SCARS: NONE

JEWELRY: NONE

CLOTHING: NIGHT GOWN

MISCELLANEOUS: THE BODY IS THAT OF A SLENDER WHITE FEMALE CONSISTENT WITH THE STATED AGE OF 7 YEARS.

EVIDENCE OF INJURY

THERE IS A 2.0 CM. SUBGALEAL CONTUSION OVER THE LEFT PARIETAL AREA. THE CALVARIUM IS INTACT.

EVIDENCE OF MEDICAL ATTENTION

AN ENDOTRACHEAL TUBE AND A NASOGASTRIC TUBE ARE IN PLACE. VASCULAR LINES ARE PRESENT IN THE LEFT NECK AND THE LEFT ANTECUBITAL SPACE. EKG PADS ARE PRESENT.

ADDITIONAL PROCEDURES

PHOTOGRAPHS: TAKEN BY ONSLOW COUNTY SHERIFF'S DEPARTMENT.

RADIOGRAPHS: NONE

MICROBIOLOGY: CEREBRAL SPINAL FLUID AND BLOOD CULTURES.

CHEMISTRY: COLLECTED BLOOD, LIVER, URINE AND GASTRIC CONTENTS.
ALSO WATER BOTTLE CONTENTS SUBMITTED.

EVIDENCE COLLECTED: PARTIAL CONTENTS OF WATER BOTTLE

DISPOSITION OF EFFECTS: RELEASED WITH THE BODY

INTERNAL EXAMINATION

SEROUS CAVITIES: UNREMARKABLE.

PLEURA: UNREMARKABLE.

PERITONEUM: UNREMARKABLE.

PERICARDIUM: UNREMARKABLE.

HEART: THE HEART WEIGHS 100 GRAMS. SERIAL SECTIONS THROUGH THE CORONARY ARTERIES DEMONSTRATE NORMAL ANATOMY. THE FREE WALL OF THE LEFT VENTRICLE IS 1.0 CMS. IN THICKNESS. THERE IS NO DISCOLORATION OF THE MYOCARDIUM. THE CHAMBERS OF THE HEART ARE ANATOMICALLY NORMAL AND THE CARDIAC VALVES ARE DELICATE.

LUNGS: THE RIGHT LUNG WEIGHS 210 GRAMS AND THE LEFT LUNG WEIGHS 280 GRAMS. THERE IS STOMACH CONTENTS IN THE MAJOR BRONCHI. SERIAL SECTIONS DEMONSTRATE NO MASSES. THE PULMONARY ARTERY IS PATENT THROUGHOUT. THERE IS NO CONSOLIDATION.

LIVER: THE LIVER WEIGHS 780 GRAMS. THE GALLBLADDER CONTAINS APPROXIMATELY 10 CCS. OF THIN MUCOID YELLOW-GREEN BILE WITH NO STONES IDENTIFIED. SECTIONS DEMONSTRATE NO ABNORMALITIES.

SPLEEN: THE SPLEEN WEIGHS 180 GRAMS AND IS UNREMARKABLE.

PANCREAS: UNREMARKABLE.

ADRENAL GLANDS: UNREMARKABLE.

G I TRACT: THE STOMACH CONTAINS GRANULAR GRAY-RED MATERIAL WITH A SMELL OF ORGANIC VOLATILES. THE GASTROINTESTINAL TRACT IS ANATOMICALLY NORMAL.

KIDNEYS: THE KIDNEYS WEIGH 60 GRAMS EACH. THE CAPSULES STRIP WITH EASE TO DEMONSTRATE A SMOOTH CORTICAL SURFACE. THE COLLECTING SYSTEM IS NOT DILATED.

BLADDER: THE BLADDER IS EMPTY.

INTERNAL GENITALIA: NORMAL FOR PATIENT AGE.

NECK ORGANS: THE HYOID BONE IS INTACT. THE LARYNX IS INTACT. THERE IS NO OBSTRUCTION OF THE UPPER AIRWAY. THE THYROID GLAND IS NORMAL SHAPE AND SIZE AND SECTIONS DEMONSTRATE NO ABNORMALITIES.

BRAIN AND MENINGES: THE BRAIN WEIGHS 1280 GRAMS. THE MENINGES ARE DELICATE. THE VESSELS AT THE BASE OF THE BRAIN ARE ANATOMICALLY NORMAL. SECTIONS DEMONSTRATE NO FOCAL ABNORMALITIES.

SKULL: INTACT.

VERTEBRAE: INTACT.

RIBS: INTACT.

PELVIS: INTACT.

THYMUS GLAND: THE THYMUS WEIGHS 40 GRAMS AND IS UNREMARKABLE.

WFK:AK 08/28/03

MICROSCOPIC EXAMINATION

HEART: (1) A SECTION OF THE POSTERIOR LEFT VENTRICLE IS HISTOLOGICALLY WITHIN NORMAL LIMITS.

LUNGS: (2,3) STOMACH CONTENTS ARE IDENTIFIED IN THE AIRWAYS. PULMONARY HEMORRHAGE AND PULMONARY EDEMA ARE ALSO EVIDENT.

LIVER: (4) HISTOLOGICALLY WITHIN NORMAL LIMITS.

SPLEEN: (5) HISTOLOGICALLY WITHIN NORMAL LIMITS.

PANCREAS: (6) HISTOLOGICALLY WITHIN NORMAL LIMITS.

ADRENAL GLANDS: (8) HISTOLOGICALLY WITHIN NORMAL LIMITS.

KIDNEYS: (9) HISTOLOGICALLY WITHIN NORMAL LIMITS.

BRAIN AND MENINGES: SECTIONS OF THE MEDULLA (10), HIPPOCAMPUS (11) AND CEREBELLUM (12) ARE HISTOLOGICALLY WITHIN NORMAL LIMITS.

THYROID & PARATHYROID: (13) HISTOLOGICALLY WITHIN NORMAL LIMITS.

THYMUS: (7) HISTOLOGICALLY WITHIN NORMAL LIMITS.

SUMMARY AND INTERPRETATION

KAYLA ALLEN WAS A 7 YEAR OLD WHITE FEMALE THAT REPORTEDLY HAD A RECENT HISTORY OF COLD SYMPTOMS AND WAS TAKING ROBITUSSIN AND DIMETAPP. SHE WENT TO BED AT APPROXIMATELY 10:15 AM ON 08/24/03. ABOUT ONE HOUR LATER SHE WAS FOUND IN BED UNRESPONSIVE, FACE DOWN WITH VOMIT AND BLOOD ON HER FACE AND PILLOW. CPR WAS UNSUCCESSFUL. SHE WAS PRONOUNCED DEAD AT ONSLOW MEMORIAL HOSPITAL EMERGENCY DEPARTMENT AT 12:45 PM.

AT AUTOPSY, THERE IS EVIDENCE OF INSECTICIDE POISONING. ANALYSIS OF THE STOMACH CONTENT SHOWS ETHYLBENZENE 290 mg%, PERMETHRIN 5400 mg/kg, XYLENE 1300 mg%. THE STOMACH CONTENT IS SIMILAR TO THE BOTTLE CONTENT FOUND UNDER THE PILLOW (320 mg/dL, PERMETHRIN 6400 mg/L, XYLENE 1680 mg/dl).

ETHYLBENZENE AND XYLENE METABOLITES ARE PRESENT IN THE URINE AS FOLLOWS: M-METHYLHIPURIC ACID - POSITIVE, M-TOLUIC ACID - POSITIVE, MANDELIC ACID - TRACE, O-METHYLHIPURIC ACID - POSITIVE, O-TOLUIC ACID - TRACE, P-METHYLHIPURIC ACID - POSITIVE, P-TOLUIC ACID - POSITIVE, PHENYLGLYOXYLIC ACID - TRACE.

TRACE AMOUNTS OF ETHYLBENZENE, PERMETHRIN AND XYLENE ARE PRESENT IN HEART BLOOD AND LIVER TISSUE.

THERE IS EVIDENCE OF ASPIRATION OF STOMACH CONTENTS AT AUTOPSY. BLOOD AND CEREBROSPINAL FLUID CULTURES ARE NEGATIVE.

THIS IS AN ACUTE INGESTION OF THE INSECTICIDE PERMETHRIN WITH CARRIERS BEING ETHYLBENZENE AND XYLENE, COMPONENTS PRESENT IN THE COMMERCIAL PRODUCT ATROBAN. THE RELATIVE CONCENTRATION OF THE ABOVE COMPONENTS IN THE STOMACH ARE SIMILAR TO THE CONTENTS IN THE BOTTLE FOUND UNDER THE PILLOW AND THEREFORE CONSISTENT WITH INGESTION OF THE BOTTLE CONTENTS.

THE MOST LIKELY DIRECT CAUSE OF DEATH IS ASPIRATION OF THE ORGANIC SOLVENTS PRESENT IN THE PERMETHRIN PRODUCT.

IN THIS PATHOLOGIST'S OPINION, THE CAUSE OF DEATH IS INSECTICIDE POISONING.

T O X I C O L O G Y R E P O R T

Office of the Chief Medical Examiner
 Chapel Hill, NC 27599-7580

Toxicology Folder: T200305778
 Case Folder: F200307280
 Date of Report: 13-jan-2004
 Page: 1

Case Folder
 F2003-07280

DECEDENT: Kayla Yvonne Allen

Status of Report: Approved
 Report Electronically Approved By: Ruth Winecker, Ph.D.

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SPECIMENS received from William Kelly on 27-aug-2003

S030010167: 13.0 ml Blood
 SOURCE: Heart

CONDITION:
 OBTAINED:

Ethanol -----	None Detected	01	13	2004
Ethylbenzene -----	Trace	01	13	2004
Permethrin -----	Trace	01	13	2004
Xylene -----	Trace	01	13	2004

S030010168: 1.0 ml Urine
 SOURCE:

CONDITION:
 OBTAINED:

M-methylhippuric acid -----	Positive	01	13	2004
M-toluic acid -----	Positive	01	13	2004
Mandelic acid -----	Trace	01	13	2004
O-methylhippuric acid -----	Positive	01	13	2004
O-toluic acid -----	Trace	01	13	2004
P-methylhippuric acid -----	Positive	01	13	2004
P-toluic acid -----	Positive	01	13	2004
Phenylglyoxylic acid -----	Trace	01	13	2004

S030010169: Gastric Contents
 SOURCE: Stomach

CONDITION:
 OBTAINED:

Ethylbenzene -----	290	mg%	01/13/2004
Permethrin -----	5400	mg/kg	01/13/2004
Xylene -----	1300	mg%	01/13/2004

