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2282/96.

NSW HEALTH
DEPARTMENT
DIVISION OF ANALYTICAL LABORATORIES

Joseph street, Lidcombe
Postal Address:
P.O. Box 162
Lidcombe, N.S.W. 2141

Reference: STOCKTON, Carl Gregory
Register Number: T962395

Telephone: (02) 646 0222
Facsimile: (02) 646 0333

I, VINCENT FRANK ZURZOLO hereby certify as follows:

1. My scientific qualifications are:
BACHELOR OF APPLIED SCIENCE (BIOMED. SC.)
UNIVERSITY OF TECHNOLOGY, SYDNEY.

2. The following described items, bearing the name STOCKTON, were received:

ITEM	SECURITY DESCRIPTION	AMOUNT (approx.)
LIVER	sealed	64 g
STOMACH	sealed	51 g
BLOOD (preserved)	sealed	26 mL
BLOOD (unpreserved)	sealed	13 mL
URINE	sealed	7 mL
BILE	sealed	16 mL

on 12/11/96 from TUAN DINH, I.O.F.M.

3. The items have been examined with the following results:

Results of screening tests:

Ur. CANNABINOIDS (D.L.: 0.05mg/L).....N.D.	Ur. OPIATES (D.L.: 0.03mg/L)....Detected
Bl. OPIATES (D.L.: 0.03mg/L)....Detected	Ur. AMPHETAMINES (D.L.: 0.2mg/L).....N.D.
Ur. BENZODIAZEPINES (D.L.: 0.2mg/L)....Detected	Bl. TRICYCLIC ANTIDEPRESS. (D.L.: 0.1mg/L).....N.D.
Ur. BARBITURATES (D.L.: 1mg/L)....Detected	Bl. METHADONE (D.L.: 0.2mg/L).....N.D.
Ur. COCAINE (D.L.: 0.3mg/L).....N.D.	Liver HEAVY METALS (D.L.: 0.01mg/kg).....N.D.
Comp. screen: CNS drugs (D.L.: 0.1mg/L)....Detected	Liver PARACETAMOL (D.L.:).....N.D.
Liver VOLATILE POISONS (D.L.:).....N.D.	

(N.D.= not detected D.L.= detection limit of test Bl.= blood Ur.= urine)

Quantitative procedure results:

BLOOD ALCOHOL: nil	
BLOOD (preserved)	Morphine: 0.09mg/L
	Clomipramine: 0.23mg/L
	Diazepam: 0.05mg/L
URINE	Nordiazepam: 0.06mg/L
	Pentobarbitone: Detected
	Thiopentone: Detected
	Phenytoin: Detected
	Diazepam: Detected
	Midazolam: Detected
	Metronidazole: Detected

PATHOLOGIST: LAWRENCE

Forwarded for your information coroner
GLEBE

Vincent Zurzolo
.....
(signature of analyst)

...29/01/97....

(Date)

NSW HEALTH
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Register Number: T962395 (Continuation)

Received on 19/11/96 from P/C S/Const Best of Redfern; the following:

Item	Result of examination
Antemortem Blood (Unsealed), approx. volume: 2mL.	Diazepam detected Alcohol: 0.014g/100mL.

PATHOLOGIST: LAWRENCE

Forwarded for your information coroner
 GLEBE

Robert Searle

 (signature of analyst)

.....29/01/97.....
 (date)

NSW HEALTH

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Dear Doctor LAWRENCE,

Analysis has now been completed on selected tissues submitted by you in the name of STOCKTON. The specimens were received within a day of the postmortem. Specimens should be received within 24 hrs. If you wish to discuss these results, please note that all samples will only be retained for 4 weeks, as DAL storage facilities do not permit longer retention. Subsamples of blood and liver are kept for 12 months.

The screening and quantitative tests reported, were selected with due regard to the information supplied and Laboratory objectives: to detect toxic levels of poisons. Furthermore, neither minor drug levels nor all specimens may have been quantitated due to limited resources. Additional analysis will only be undertaken if justified with the senior Forensic Toxicologist, who should be contacted as soon as possible.

The following information may assist in interpreting the toxicology results:

MORPHINE

proprietary names: Morphalgin, Morphine sulphate, Mortha, deacetylated heroin dosage units: 5,30mg tabs, 10mg/mL
therapeutic blood level: <.08mg/L toxic blood range: >.08mg/L reported fatal range: 0.08-1.6mg/L
Heroin is rapidly converted to morphine in the body. Illicit i.v. use is often associated with sudden death - commonly attributed to "narcotism" and not always related to blood total morphine concentration: the observed range being 0.08-1.6mg/L.
Palliative care patients, treated with morphine, may attain blood total morphine concentrations in the order of 7mg/L.

CLOMIPRAMINE

proprietary names: Anafranil dosage units: 25mg tabs.
therapeutic blood level: 0.017-0.48mg/L toxic blood range: >0.4mg/L reported fatal range: 0.54-2.1mg/L

DIAZEPAM

proprietary names: Valium, Ducene, Antenex, dosage units: 2mg, 5mg,
therapeutic blood level: 0.05-2.0mg/L toxic blood range: 1.5-15mg/L reported fatal range: >5mg/L

NORDIAZEPAM

proprietary names: Active metabolite of Diazepam and Chlordiazepoxide dosage units:
therapeutic blood level: 0.1-2.0 mg/L toxic blood range: 3-14 mg/L reported fatal range:

PENTOBARBITONE

proprietary names: Nembutal, Nembudiene, Carbrital, Pentalgin, metab.: thiopentone dosage units: 50mg, 100mg
therapeutic blood level: 1-3mg/L toxic blood range: 8-30mg/L reported fatal range: 10-169mg/L

The above information is provided without consideration of age, existing pathological condition, sensitivity or tolerance of the deceased. Drug interaction and the factors mentioned may influence the effect of the poison levels reported.

The Senior Forensic Toxicologist may be contacted on (02) 646 0429.

FOR DIRECTOR AND GOVERNMENT ANALYST

29/01/97

The Director, Institute of Forensic Medicine, has requested that the cost of analytical toxicology services be estimated.
.....for information only, the attached analysis cost: \$1300