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TOXICOLOGY REPORT

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Name:	KOVARI, Gabriel	TOX No:	1486/14
Ref No:	PM 405/14	PM Date:	01/09/2014
Mortuary:	Queens Hospital	Receipt Date:	04/09/2014
Pathologist:	Dr. G. Soosay	Report Date:	07/10/2014

Ethanol

Blood : 20 mg/100 ml

Urine : 16 mg/100 ml

Blood ethanol : legal limit for driving 80 mg/100ml
100 - 200 mg/100ml - associated with drunkenness
200 - 300 mg/100ml - coma may occur
Greater than 400 mg/100ml - associated with death



Gamma-hydroxybutyrate (GHB)

Blood : 758 ug/ml

Urine : Positive

In ante-mortem blood, endogenous GHB concentrations are usually below 5 ug/ml. In post-mortem blood, endogenous GHB concentrations are usually below 30 ug/ml. However, highly putrefied blood may give rise to higher endogenous GHB concentrations.

The presence of GHB at higher concentrations may indicate ingestion of GHB (or related compounds gamma-butyrolactone (GBL) or 1,4-butanediol).

Non-fatal overdoses of GHB have been reported with blood concentrations up to 551 ug/ml.

In seven deaths attributed to GHB abuse, post-mortem blood concentrations ranged from 27 to 1030 ug/ml. A post-mortem blood GHB concentration of 538 ug/ml was detected in a man who committed suicide by ingesting GBL.

GHB is an anaesthetic and hypnotic drug. It is used as a drug of abuse for its euphoric effects. However it can also cause drowsiness and unconsciousness.

Mephedrone (4-methyl-methcathinone)

Stomach Contents : Positive

Blood : 0.92 ug/ml

Urine : Positive

Mephedrone is a synthetic stimulant also known as MCAT or Meow Meow. The stimulant and euphoric effects are thought to be similar to cocaine, ecstasy or amphetamine.

There is insufficient toxicity data reported in the literature regarding mephedrone concentrations, with only 1 report of a post-mortem mephedrone concentration. Mephedrone was found in post-mortem blood at 0.6 ug/ml blood in combination with heroin.

Another report states a person survived with hospital treatment following oral ingestion of 200 mg and intramuscular injection of 3800 mg of mephedrone. The serum concentration was estimated to be 0.15 ug/ml

Methylamphetamine

Blood : Not Detected (Limit of detection 0.05 ug/ml)

Urine : Positive

Plasma concentrations associated with recreational use : 0.01 to 0.05 ug/ml

Potentially fatal blood concentration : greater than 10.0 ug/ml

Ibuprofen

Blood : Not detected (limit of detection 5.0 ug/ml)

Therapeutic plasma concentration : 15 to 30 ug/ml

Toxic plasma concentration : greater than 100 ug/ml

Ibuprofen is a non-steroidal anti-inflammatory drug used for the treatment of mild to moderate pain and inflammation in rheumatic disease and other musculoskeletal disorders. It has a low volume of distribution so increases in concentrations after death due to post-mortem redistribution will be minimal.

**NO OTHER DRUGS DETECTED IN GENERAL SCREEN OF STOMACH CONTENTS OR BLOOD
NO OTHER DRUGS OF ABUSE DETECTED IN URINE**