



TOX TALK

PUBLICATION OF THE SOCIETY OF FORENSIC TOXICOLOGISTS

1013 THREE MILE DRIVE • GROSSE POINTE PARK • MICHIGAN 48230-1412

SEPTEMBER 1987

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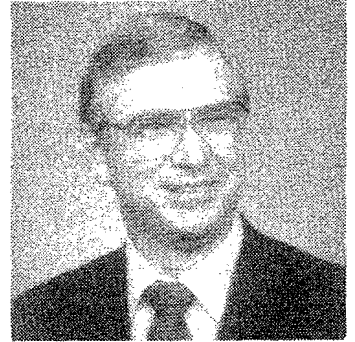
TOXTALK is mailed quarterly to members of the Society of Forensic Toxicologists, Inc. For membership information contact Secretary C. Nicholas Hodnett at the address above. All members and others are invited to contribute to TOXTALK. Submit all materials (original plus 3 copies if possible) for publication consideration to: TOXTALK, 1013 Three Mile Drive, Grosse Pointe Park, MI 48230-1412. Deadlines to send items are February 15, May 15, August 15, and November 15. For further information, contact Patricia Mohn-Monforte at (313) 884-4718.

PRESIDENT'S MESSAGE

H. Horton McCurdy Ph.D., SOFT President

The 1987 SOFT meeting in the horizon, and I hope every member will make an effort to attend. The workshop on September 29th deals with an issue of real concern to forensic toxicologists — quality assurance for drug testing. The meeting's scientific sessions are shaping up, the hotel is offering a considerably reduced rate for its **** rated accommodations, the social activities are enticing, the discounted air fare is great — it should be an exciting meeting.

SOFT members are reminded to attend the SOFT Annual Business Meeting on October 1st at 10:30 a.m. A number of issues including election of 1988 Officers, will be addressed. The Board of Directors will meet the previous day, September 30th, at 3:30 p.m. Additional meeting information is contained in this issue of TOXTALK. See you in Key Biscayne.



1987 S.O.F.T. ANNUAL MEETING PROGRAM RECAP

TUESDAY — SEPTEMBER 29, 1987

Workshop registration 7:30 - 8:00 am
Continental breakfast (workshop attendees only) 7:30 - 8:00 am

Workshop posters on display 7:30 am - 9:00 pm
Workshop: *Principles and Practices of Quality Assurance for Forensic Toxicology Drug Testing*
8:00 am - 5:00 pm

Exhibitor set-up 10:00 am - 6:00 pm

Meeting registration 7:30 - 9:00 pm
Welcome Reception 8:00 - 9:00 pm

WEDNESDAY, SEPTEMBER 30, 1987

Registration 8:30 am

Workshop posters on display 8:30 am - 5:00 pm

Opening Remarks 9:15 am

Scientific Papers 9:30 - 11:30 am; 1:15 - 2:45 pm

Elmer Gordon Open Forum 2:45 - 3:45 pm

S.O.F.T. Board of Directors' Meeting 4:00 pm

Informal Presidential Conferences 9:00 pm - ?

THURSDAY, OCTOBER 1, 1987

Registration 8:30 am

DUI Committee Report and Panel Discussion
9:30 - 10:30 am

S.O.F.T. Business Meeting 10:30 - 12:00 pm

Fentanyl Symposium 1:30 - 4:45 pm

Luau (optional) — evening

FRIDAY, OCTOBER 2, 1987

Scientific Papers 9:00 - 12:00

Awards Banquet and Meeting Adjourned
12:00 - 2:00 pm

SATURDAY, OCTOBER 2, 1987

Underwater Expedition (optional)

IN THIS ISSUE...

REGULAR FEATURES

- President's Message
- Announcements
- Members on the Move

- Career Opportunities
- Professional Calendar

OF SPECIAL INTEREST

- 1987 SOFT Annual Meeting Update and Program Information
- Letters to the Editors

- Nominating Slate
- 1986-87 Financial Statement
- ERA Information

TECHNICAL HIGHLIGHTS

- *Fentanyl Analogs: Toxicology & Analysis* by Donald P. Cox, Ph.D.
- *An Interesting Multiple Drug Overdose* by Raymond J. Matejczyk, M.S.

INSERTS

- 1987 SOFT Annual Meeting registration form
- Workshop Information • QA/QC Survey
- Eastern Airlines reduced air fare flyer.

LETTERS TO THE EDITORS

TO: The Editor of **ToxTALK**

Re: In opposition to our (SOFT's) official affiliation with "The American Drug Use Testing Association (ADUTA)
(See: President's Message in **ToxTALK**, June 1987)

SOFT's Board of Directors voted to make us all charter members of a *trade association* (1) by officially placing our Office of the President on the Board of Directors of ADUTA. ADUTA offers i.a. the following member benefits, quoted here from its membership recruiting brochure (1):

"Where necessary, legal challenge to actions that adversely affect the drug testing industry"

"Opportunity to influence the economic well-being of your organization through business interaction with other members of the drug use testing industry."

These goals — as others of the ADUTA — appear to me as legitimate, honorable and even laudable — FOR A COMMERCIAL TRADE ORGANIZATION WHICH ADUTA OPENLY STATES THAT IT IS.

However, it is also my earnestly concerned view, that —

1. As a matter of principle, SOFT and thus its membership as a body is a professional scientific and hopefully fraternal organization, serving Forensic Toxicology — (not solely or primarily "drug use testing") — and the interest of Forensic Toxicologists as professionals (not as business men).

And, as the corpus of the Law's independent experts in forensic toxicology, SOFT has no business in relinquishing any of our independence to endorsement and assumption of co-responsibility for the policies and acts of any particular commercial trade organization — at that, one about which most of us probably know next to nothing!

2. Besides this concern with the principles of SOFT's independence as a professional organization of and for forensic toxicologists, our official affiliation with ADUTA suffers from too many obvious practical hazards to SOFT. The hazards certainly include potentially real, or at least perceived conflicts of interest, tortuous and financial liabilities, parochial bandwagon pressures and association with trade group lobbying.

Let me reiterate that none of the above polemic is intended in any way to reflect unfavorably on the merits of ADUTA or any of its members. My emphasis is solely on the non-compatibility of SOFT's and ADUTA's legitimate primary objectives which I believe to be

for SOFT: Scientific and Fraternal

for ADUTA: "Opportunity to influence the economic well being of ... organizations which provide or use (commercial) products and services for (commercially) detecting drug use"

I, therefore, urge the SOFT Board of Directors and also urge my fellow members to SOFT to urge our Board of Directors to —

1. Recognize that its action of placing SOFT's Office of the President on ADUTA's Board of Directors was too hasty and too unilateral for such a far reaching and potentially costly matter.
2. Rescind its action and thereby all of our official, formal affiliation and endorsement of ADUTA.
3. Furnish the SOFT membership full, complete and detailed disclosure information on ADUTA — charter, structure, offices, officers, founders, members, goals, purposes, aims, finances, etc.
4. Give us, the membership of SOFT, a real and reasonable opportunity for an airing, a hearing and a voice for action in this matter's principles and in its practical consequences.

Fervently and respectfully yours,

Fredric Rieders, Ph.D.

(1) Quotes are from ADUTA's charter membership recruitment brochure, except for parenthesized material which is my own.

Dear Editors:

The Board of Directors of SOFT voted in February to accept the offer of the American Drug Use Testing Association (ADUTA) to have the President of SOFT as one of 12 Board Members of ADUTA. The stated "purpose" of ADUTA is to promote the scientific and legal supportability of test programs for detecting drug use ... It is the goal of ADUTA to focus on all aspects of the testing program and, through adherence by members to standards of practice and quality assurance procedures and active monitoring to assure legally and scientifically supported results" (from the brochure announcing ADUTA and its membership application form). Since drug testing is the forte of the Forensic Toxicologist, ADUTA approached an organization of Forensic Toxicologists and asked their assistance in achieving this stated goal. The Board of SOFT thought that this offered a chance for creative and significant input to an organization with similar goals to that of SOFT itself. I personally think that there is some similarity to the situation of the Forensic Toxicology community in the mid-seventies, when the ABFT was formed, in part to avoid regulation from outside the community.

As long as the goals of SOFT and ADUTA are similar, the presence of the President of SOFT on the Board of ADUTA will signify support. If there should be a wandering of ADUTA from the goals stated above, and its operation no longer is supportable by SOFT, then the resignation of the President from the Board of ADUTA would clearly indicate this.

I think the action of the SOFT Board in this matter was appropriate, and should continue until circumstances require a re-evaluation.

Sincerely yours,
Michael P. McGee

1987 NOMINATING COMMITTEE SLATE

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Additional information can be obtained from the previous issue of **ToxTALK** or by contacting Nominating Committee Chairperson, Rosemary Kincaid, Ph.D., 298 North Burritt, Buffalo, WY 82834.

Elections will be held at the SOFT Annual Business Meeting on October 1 in Key Biscayne, FL.

QA/QC SURVEY COMMITTEE

The Committee has put together a short questionnaire to evaluate how SOFT members address the issue of quality control/quality assurance in their laboratories. This survey is included in this issue of **ToxTALK**. Your cooperation in returning the completed survey will be appreciated. A summary of survey results will be reported in the December issue of **ToxTALK**, so please submit your completed survey to Paula Childs before October 15th. If you have any questions, call Paula Childs at (919) 248-6494.

PRELIMINARY S.O.F.T. FINANCIAL STATEMENT

Fiscal Year 7/01/86 — 6/30/87

Submitted by James C. Valentour, Ph.D., Treasurer, SOFT

Item	Income	Expenses	Comments
E.R.A.	\$3,182.67	\$1,000	expenses: two awards @ \$500 ea. income: \$470.49 check. acct. interest \$200.00 mailing list sales \$502.18 Reno Mtg. proceeds (some addtl. funds still anticipated) \$2,010.00 dues allocations - 201 @ \$10 each
Dues	6,335.00	—	245 @ \$25 + 14 @ \$15
Application Fees	\$230.00	—	46 @ \$5
Secretary	—	181.44	supplies and stamps
Treasurer	—	53.16	supplies and stamps
Banking	—	123.59	checking acct. maintenance + returned check fees
Meeting Receptions	—	809.07	\$521.22 ★ \$287.85 ★★
Legal	—	160.00	franchise tax + agent fees
J. Anal. Tox.	—	162.01	special issue expenses
Board of Directors	—	255.99	at San Diego Mtg.
Exec. Coordinator	—	1,803.60	\$531.30 ★ \$1,272.30 ★★
Consultation Fees	—	—	—
Exec. Coordinator	—	755.26	\$141.21 ★ \$614.15 ★★
Office Expenses	—	—	—
Tox Talk Publication	—	2,251.09	\$743.80 ★ \$1,507.29 ★★
Tox Talk Editor Fees	—	853.00	★★
Miscellaneous	—	521.77	\$264.17 coffee mugs/membership drive \$257.60 for stationery
	\$9,747.67	\$8,929.98	
Net in '86-87	\$817.69		

\$817.69 added to checking acct. balance of \$8,921.44 from last fiscal year = \$9,739.13 in checking acct. as of 6/30/87. Note that of this \$9,739.13, \$7,277.84 is committed to the E.R.A.

★ expense carried over from 1985-86 fiscal year

★★ expense incurred and paid in 1986-87 fiscal year

This preliminary report is currently under review by the Audit, Budget, and Finance Committee. A final report will be presented to the Board of Directors.

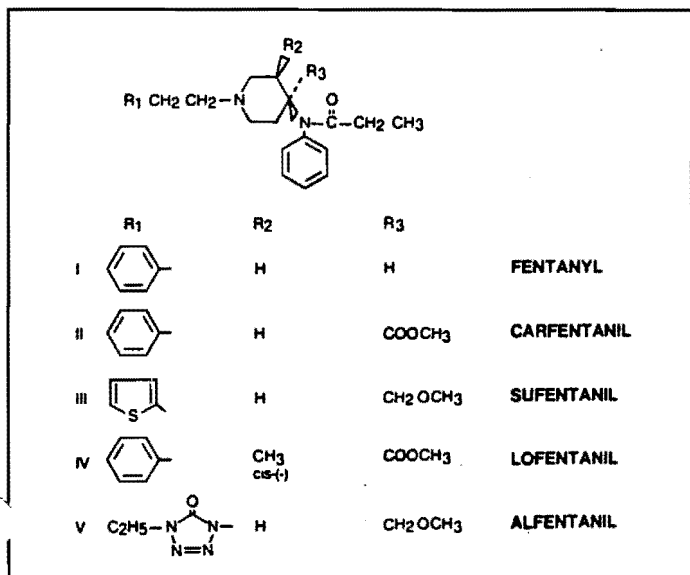
FENTANYL ANALOGS: TOXICOLOGY & ANALYSIS

By Donald P. Cox, Ph.D.

Janssen Life Sciences Products 40 Kingsbridge Road, Piscataway, NJ 08854

The commercial fentanyl analogs (fig. 1) are potent morphinometric compounds used worldwide by the medical and veterinary communities as narcotic analgesic agents in a variety of surgical procedures. As effective replacements for morphine-like compounds they also have been objects of abuse and misuse in humans and animals. Clever clandestine chemists have been known to synthesize potent analogs of fentanyl as substitutes for heroin.

Figure 1 — COMMERCIAL FENTANYL ANALOGS



Discovery of fentanyl in 1960 by Janssen Pharmaceuticals led to a family of 4-anilino-piperidine derivatives which have been developed here and abroad. Carfentanil is the most potent analgesic developed to date and is a safe immobilizing agent for large wild animals. The product has been tested in several African nations and is currently under development in the United States by Wildlife Laboratories, Inc. in Fort Collins, Colorado.

Sufentanil (SUFENTA™) is currently marketed by Janssen in the United States as a safer and more potent analog of fentanyl for use as an anesthetic analgesic in cardiac surgical procedures.

Lofentanil slightly differs in structure from sufentanil and is equi-potent but with an extremely long duration of action. Because of its potent opioid-binding characteristics it is difficult to reverse with standard antagonists like naloxone. This product is not being developed in the United States.

A short acting analog, alfentanil (ALFENTA™), is as safe as fentanyl, one-fourth as potent but very useful in minimal surgical procedures or as an infusion when rapid recovery is preferred.

The commercial analogs of fentanyl are superior in potency and safety when compared to meperidine (pethidine) as evident from the observed safety ratios (fig. 2).

Figure 2 — POTENCY & SAFETY COMPARISONS OF FENTANYL ANALOGS TO PETHIDINE (MEPERIDINE)

Compounds	Lowest ED ₅₀ mg/kg	LD ₅₀ mg/kg	Safety margin	Potency ratio
PETHIDINE	6.0	29.0	4.8	1
ALFENTANIL	0.044	47.5	1080	137
FENTANYL	0.011	3.1	277	550
SUFENTANIL	0.00071	17.9	25211	8500
LOFENTANIL	0.00059	0.066	112	10200
CARFENTANIL	0.00034	3.4	10000	17800

Comparisons of commercial versus illicit analogs based on the tail-withdrawal test in rat species reveals that to date most clandestinely-produced analogs are similar in potency to original fentanyl. The *a*-methyl and trans 3-methyl structures (China White), thienyl fentanyl and *p*-fluorofentanyl are equipotent to fentanyl while notably the *cis* 3-methyl analog (not shown) is reportedly 10 times as potent (1).

Potency Comparisons — Commercial/Illicit Analogs
TWR Test/rats — ED 50 (mg/kg)

	Oral	IV	SC
Fentanyl	0.11	0.01	0.014
Alfentanil		0.04	
Sufentanil		0.0008	
Carfentanil		0.0005	0.0007
Lofentanil		0.0005	0.06
Thienylfentanyl	0.31	0.015	0.035
<i>a</i> -methylfentanyl	0.05		0.015
3-methylfentanyl (trans)		0.01	
<i>p</i> -fluorofentanyl	0.02		

Generally, modifications in the fentanyl structure producing higher potency result in less toxicity. Modifications at the C-4 position of the benzene ring typically increase potency while those at the C-3 position increase potency and duration of action (2).

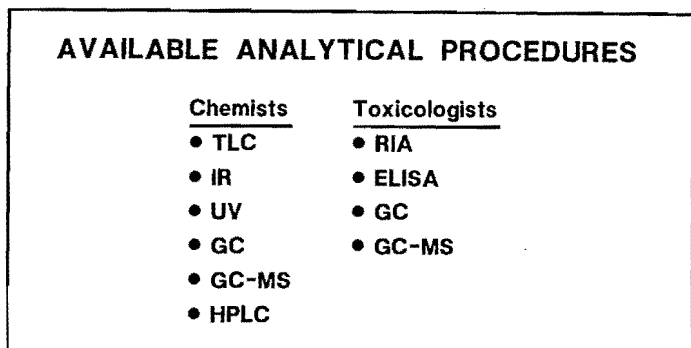
Acute toxicity values of the commercial fentanyl analogs range widely both inter- and intra-species making predictability of these values on the basis of structure very difficult.

Acute Toxicology of Fentanyl Analogs
LD-50 (mg/kg)

	I.V. Mouse	I.V. Rat	I.V. Dog
Fentanyl	10	3.5	7.5
Alfentanil	73	47	73.5
Sufentanil	18.7	17.9	14.1
Carfentanil		3.4	4.8
Lofentanil		0.066	0.66

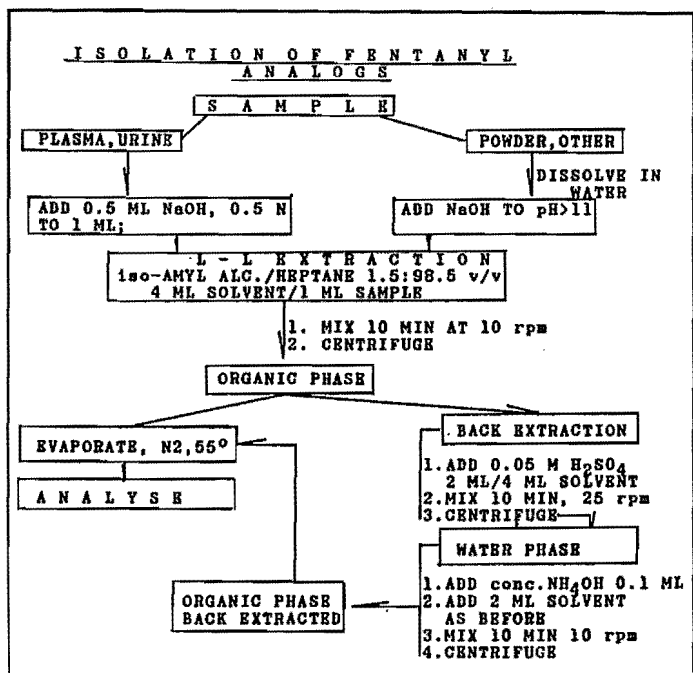
Numerous analytical techniques have been developed for quantitation and quality control of commercial analog products (fig. 3). Likewise, techniques have been described for analyzing body fluid samples as part of pharmacokinetic research studies.

Figure 3 — ANALYTICAL PROCEDURES DEVELOPED FOR THE COMMERCIAL FENTANYL ANALOGS



Fentanyl analogs are highly lipophilic in nature and can be readily extracted from either biological or powder samples with polar organic solvents (fig. 4).

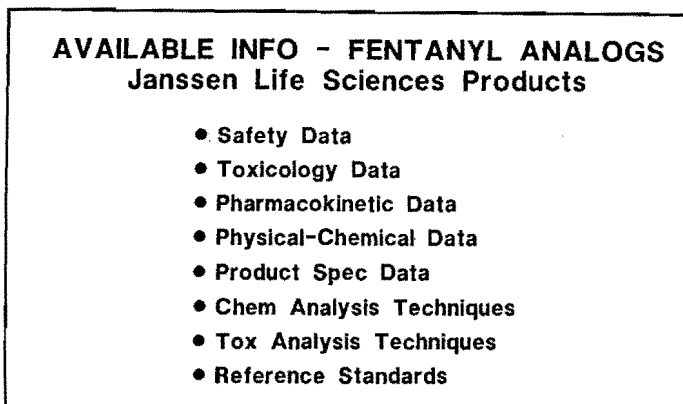
Figure 4 — FENTANYL ANALOG EXTRACTION SCHEME



Radioimmunoassay procedures have been described for fentanyl (3), sufentanil and alfentanil (4). The crossreactivity characteristics of available antisera allow for the presumptive detection of several analogs of fentanyl. Confirmational procedures employing gas chromatography in several modes have been published (5-11) and reference standard grade fentanyl analogs are available (12).

Janssen Life Sciences Products will help law enforcement officials, medical professionals, toxicology laboratories and forensic scientists who are monitoring and analyzing for these compounds in efforts to eliminate improper use of fentanyl and its analogs (fig. 5).

Figure 5 — LITERATURE AVAILABLE FOR ANALYZING FENTANYL ANALOGS



- Henderson, G. 1986. Personal Communication.
- Van Bever, WFM, Niemegeers, C.J.E. & Janssen, P.A.J. 1974. Synthetic analgesics. *J. Med. Chem.* 17: 1047-1051.
- Michiels, M., Hendriks, R. & Heykants, J. 1977. A sensitive radioimmunoassay for fentanyl. *Eur. J. Clin. Pharmacol.* 12:153-158.
- Michiels, M., Hendriks, R. & Heykants, R. 1983. Radioimmunoassay of the new opiate analgesics, alfentanil and sufentanil. Preliminary profile on man. *J. Pharm. Pharmacol.* 35:86-93.
- Goromaru, T., Matsuura, H., Yoshimura, N., Miyawaki, T., Sameshima, T., Miyao, J., Furuta, T. and Baba, S. 1984. Identification and quantitative determination of fentanyl metabolites in patients by gas chromatography-mass spectrometry. *Anesthesiology* 61:73-77.
- Gillespie, T.J. Gandolfi, A.J. Maiorino, R.M. and Vaughn, R.W. 1981. Gas chromatographic determination of fentanyl and its analogues in human plasma. *J. Anal. Toxicol.* 5:133-137.
- van Rooy, H.H., Vermeulen, N.P.E. and Bovill, J.G. 1981. The assay of fentanyl and its metabolites in plasma of patients using gas chromatography with alkali flame ionization detection and gas chromatography-mass spectrometry. *J. Chromatogr.* 223:85-93.
- Lin, S.N., Wang, T.-P.F., Caprioli, R.M. and Mo, B.P.N. 1981. Determination of plasma fentanyl by GC-mass spectrometry and pharmacokinetic analysis. *J. Pharm. Sci.* 70:1276-1278.
- Woestenborghs, R., Michielsen, L. and Heykants, J. 1981. Rapid and sensitive gas chromatographic method for the determination of alfentanil and sufentanil in biological samples. *J. Chromatogr.* 224:122-127.
- Woestenborghs, R.J.H., Stanski, D.R., Scott, J.C. and Heykants, J.J.P. 1986. Assays methods for fentanyl in serum: GLC vs radioimmunoassay. *Anesthesiology*, submitted for publication.
- Moore, J.M., Allen, A.C., Cooper, D.A. and Carr, S.M. 1986. Determination of fentanyl and related compounds by capillary gas chromatography with electron capture detection. *Anal. Chem.* 58:1656-1660.
- Fentanyl Analogs Reference Standard Set, Product Insert. Janssen Life Sciences Products, Piscataway, NJ. September, 1986.

AN INTERESTING MULTIPLE DRUG OVERDOSE

By Raymond J. Matejczyk

An unusual drug overdose was referred to our laboratory for analysis. The case involved a 42 year old white male discovered dead in bed. Autopsy findings were hemorrhagic pulmonary edema, hemorrhages in the neck muscles and petechia in the conjunctiva. At the time of the autopsy this death was suspected to be either a homicide by strangulation or a drug overdose pending toxicology analysis.

Police investigation revealed that the deceased was a hypertensive patient enrolled in a clinical trial of an angiotensin converting enzyme (ACE) inhibitor drug, Cilazapril (cilazaprilat, Hoffman-LaRoche). ACE inhibitors block the enzyme responsible for the conversion of angiotensin I to angiotensin II. ACE inhibitors are indicated in the treatment of hypertension. Further investigation revealed that the deceased had filled a prescription for Halcion (triazolam) 0.125mg a day or two before his death. The Cilazapril prescription was found at the scene with 17 capsules remaining; the Halcion prescription was not found.

Toxicology findings indicated an elevated blood ethanol level along with the presence of triazolam and doxylamine. Triazolam was detected by GC/ECD and confirmed by GC/MS in the SIM mode monitoring 238,313 and 342 amu. Doxylamine was confirmed by GC/MS.

Cilazapril was analyzed by Hoffman-LaRoche using a radioenzymatic assay. According to Hoffman-LaRoche the peak plasma level for Cilazapril is 42ng/ml for a 2.5mg dose, which the deceased was taking. The protocol for Cilazapril analysis calls for plasma samples being frozen from collection until analysis. Samples from this case analyzed for Cilazapril were not handled according to the protocol and inaccuracies may exist in this result.

This death was ruled as a drug overdose. Evidence of a homicide could not be substantiated through the investigation. The combination of two hypnotic drugs and ethanol are believed to be sufficient to cause CNS depression resulting in death. Hemorrhages in the neck muscles and conjunctiva have not been explained to date.

Toxicology Findings

	Triazolam	Doxylamine	Ethanol	Cilazapril
Blood	18.1 ng/ml	0.6 ug/ml	0.222%	7.4 ng/ml
Liver	123.0 ng/g			
Kidney	70.8 ng/g	5.2 ug/g		
Gastric con.	0.3 mg	0.5 mg		
Urine			0.298%	none detected
Eye fluid			0.271%	

EDUCATIONAL RESEARCH AWARD

Submitted by Richard N. Phillips, Ph.D.

In 1986 a \$10 increase in S.O.F.T. membership dues was approved by the Board of Directors. This increase, however, was not to meet operating expenses, but rather to form the base for building the Educational Research Award (ERA) to at least \$10,000, a point at which it was felt the ERA could generate an annual award of at least \$1,000 from interest on the principal. It is also felt this form of self-help could then be utilized to approach industry representatives for a substantial contribution to the ERA.

The ERA is made to students pursuing advanced degrees in the areas of chemistry, pharmacology, toxicology, or other related disciplines whose research project is consistent with the needs of forensic toxicologists. An appropriate authorized representative must approve the application on behalf of the institution.

To apply for the award, an application packet containing the following should be submitted by the applicant or the applicant's research director:

1. A curriculum vitae describing the student's activities.
2. A research proposal describing the proposed research with appropriate literature references, experimental protocols and budgetary needs.
3. A statement from the research advisor providing some background information about the student, the research proposal, and his willingness, or the willingness of the institution, to receive and administer the funds.

Five copies of the material requested should be sent to: Yale Caplan, Ph.D., Office of the Chief Medical Examiner, 111 Penn Street, Baltimore, MD 21201

In the past the ERA has generally been awarded in amounts of \$500, although awards up to \$1,000 can be approved. However, the recommendation of the Grants and Endowments Committee (Randall C. Baselt, Richard W. Prouty, Fredric Rieders, Richard N. Phillips, Chairman), will be that the award be increased to \$2,000 to add more prestige, and that part of

the award be available to the recipient to travel to the S.O.F.T. meeting to present data from his/her research.

Although the Educational Research Award is not in the "staggering" financial award area yet, it is the Society's way of encouraging young researchers to delve into forensic toxicology for data that may be useful to us all.

QUALITY ASSURANCE WORKSHOP FOR FORENSIC TOXICOLOGY DRUG TESTING

September 29, 1987
SOFT Annual Meeting
Key Biscayne, FL

See insert or contact:

Robert K. Simon, Ph.D.
Workshop Co-chairman
Washington Analytical Lab, Inc.
14214 Coda Place
Chantilly, VA 22021
(703) 631-6871

FOR SOFT MEMBERSHIP INFORMATION

Contact: Dr. C. Nicholas Hodnett

SOFT Secretary
Dept. of Labs and Research
Westchester County
Valhalla, NY 10595
(914) 347-6213

1987 S.O.F.T. ANNUAL MEETING PROGRAM

TUESDAY, SEPTEMBER 29, 1987

- 7:30 - 8:00 Workshop registration
Continental breakfast (workshop attendees only)
- 7:30 - 9:30 pm Workshop posters prepared by U.D. Military FTDTL on display
- 8:00 - 5:00 **Workshop: "Principles and Practices of Quality Assurance for Forensic Toxicology Drug Testing"**
(Note: Attendance of complete workshop mandatory to receive a certificate. Partial attendance will not be permitted. Optional QA/QC exam schedule to be announced.)
- 10:00 - 6:00 Exhibitor set-up
- 7:30 - 9:00 Meeting registration
- 8:00 - 9:00 **Welcome Reception**

WEDNESDAY — SEPTEMBER 30, 1987

- 8:30 Registration
- 8:30 - 5:30 Workshop posters prepared by U.D. Military FTDTL on display
- 9:15 - 9:30 **Opening Remarks**
- 9:30 - 11:30 **Scientific Papers**
"A simple and rapid RIA procedure evaluation of cocaine (benzoylcegonine) and phencyclidine using coat-a-count." N. Jain* and T. Sneath
"The analysis of cocaine metabolite in urine: A comparison of the TDX FPIA cocaine metabolite assay with gas chromatography/mass spectrometry." D.E. Lewis* E. Omori, J. Nishio, and S.H. Schnell
"Rapid enzyme immunoassay for cocaine & metabolites." R. Anderson* S. Durham, M. O'Connor, J. Frazer, and H. Brandwein
"An evaluation of the TDX cannabinoid assay." R.P. Bateh*
"A computer system for target compound analysis of drugs of abuse." L.S. Matthews* and T.R. Matthews
"Simultaneous analysis of codeine, morphine, hydrocodone, and hydromorphone by GC/MS." M.P. George*
"Allowing the GC/MS autotune and drug mass ratios to work for the chemist." L.S. Thomas* D.M. Bush, and J.A. Gere
- 11:15 - 2:30 **Scientific Papers**
"Quality GC/MS drug confirmations depend on the sample sequence." J.J. Saady*
"Robotics sample preparation for drug analysis applications." R.K. Latven*, and J.L. Merdink
"Preparation and use of control samples for drug analysis by RIA and GC/MS." J.T. Cody*
"Simultaneous identification of cocaine and benzoylcegonine using gas chromatography/mass spectrometry." R.W. Taylor*, N.C. Jain, and M.P. George
"Interpretation of blood and urine cannabinoid concentrations." A.J. McBay*
- 2:45 - 3:45 **Elmer Gordon Open Forum**
Traditionally, this is an opportunity for anyone to bring up a subject or problem for group discussion.
Topical Areas:
A new definition of forensic toxicology — employee drug testing.
Emerging concepts of quality control in forensic toxicology labs?
- 4:00 **S.O.F.T. Board of Directors' Meeting**
- 9:00 **Informal Presidential Conferences**

**SOFT BOARD TO MEET
WEDNESDAY, SEPTEMBER 30, 1987
AT 4:00 P.M.**

THURSDAY, OCTOBER 1, 1987

- 8:30 Registration
- 9:30 - 10:30 **DUI Committee Report**
"Correlation between drug concentrations and altered neurophysiological performance in an adult population." J.M. Holbrook* and other members
"Significance of confounding factors in the correlation between the concentration of drugs in blood and urine and altered neurophysiological performance in an adult population." T. Barton* and other committee members
DUI drugs study: A novel approach." E.T. Solomons* and other committee members
"Statistical analysis of DUI-drugs data: A committee report." R.D. Williams and other committee members
- Panel Discussion:** J. Holbrook, T. Barton, E. Solomons, R.D. Williams, H.H. McCurdy, and M. Percy
- 10:30 - 12:00 **S.O.F.T. Business Meeting**
- 1:30 - 4:45 **Fentanyl Symposium**
"Introduction to fentanyl and analogs." D.P. Cox, Symposium Chairman
- Screening Methods:**
"Analyzing fentanyl by enzyme linked immuno sorbent assay (ELISA)." I. Irwin
"Analysis of fentanyl by radioimmunoassay." D. Moody
Question & Answer Panel: D.P. Cox, I. Irwin, D. Moody
- Confirmation Methods:**
"C/MS of fentanyl on the MSD." L. Denham
"GC/MS of fentanyl in urine samples." R. Baselt
"Dual capillary column gas chromatography of fentanyl derivatives." V. Watts
- Evening **Luau**
(optional, admission by pre-purchased ticket only)

FRIDAY — OCTOBER 2, 1987

- 9:00 - 12:00 **Scientific Papers**
"The determination of ibuprofen in post mortem blood specimens by gas chromatography using TMAH." J.R. Monforte* and K. Galka
"Succinylcholine suicide — Case report." R.C. Backer*, D.M. Andrenyak, and J.C. Morris
"Cyanide disappearance from NaF/refrigerated blood samples." M.I. Schaffer* and R.J. Stein
"Intermethod evaluation for the determination of cyanide." J. Balkon, P. Huie, and S. Kucharewicz
"Pharmacological interactions of ethyl alcohol and morphine with phencyclidine (PCP) in rats." D.M. Bush*, J.E. Moreton and Y.H. Caplan
"A 'modern' chloroform homicide." K.R. Jones* and P.P. Singer
"Attempts at the determination of carboxyhaemoglobin (COMb) concentrations in human myocardium." B. Sangalli and J.H. Bidanset*
"Automatic GC/MS data analysis using target compound analysis techniques." W. Price*
"Quality control in forensic toxicology laboratories." R.J. Bath
"Illinois State Police blood alcohol quality assurance program." C. Long* and D.J. Brown
"Case report: An unusual cocaine fatality and cocaine stability in brain." K. Bogdziewica, C. Huser and J. Balkon
- 12:00 - 2:00 **Awards Banquet** (admission by ticket)
Meeting Adjourned

SATURDAY, OCTOBER 3, 1987

Underwater Expedition — Scuba diving or snorkeling at John Pennycamp's Underwater State Park off Key Largo. Optional event, pre-purchased ticket price includes instruction and boat. For additional information, contact Dr. Bednarczyk.

PLANS UNDERWAY FOR EXCITING S.O.F.T. MEETING

September 29 — October 2, 1987

Key Biscayne, Florida

Dr. Leonard Bednarczyk, 1987 Meeting Host, reports an unusually good response to early registration. By September 1st, more than 50 registrants were received — that's a full week before the early registration deadline. The Sonesta Beach recorded more than 50 reservations 6 weeks before the meeting begins, and AAA-Convention Services says a lot of people are taking advantage of Eastern Airlines' special meeting rates.

There has also been an overwhelming response to the workshop. Nearly everyone attending the meeting will also attend the "Quality Assurance Workshop for Forensic Toxicology Drug Testing." Dr. Simon does not expect to have to refuse any registration, even on-sight registrations should be able to participate in the workshop. Pre-registration is advised, however, so an adequate number of materials can be prepared for distribution. We will try to accommodate everyone, but on-sight registrants will receive materials on a first-come, first-served basis. Early registrants are guaranteed copies of all hand-outs. A certificate will be available only for persons attending the entire workshop, and an additional examination will be offered.

The meeting will "kick-off" with the traditional "Welcome Reception." This year, Abbott Laboratories has graciously offered to underwrite this event. (Don't tell anyone, but it is rumored that we may get a surprise visit by a few familiar faces from "Miami Vice.")

Dr. Balkon has put together a very good program: Wednesday will feature scientific papers and the traditional Elmer Gordon Open Forum. Those who enjoyed the privilege of knowing Elmer Gordon may recall the many times he stated his feeling that SOFT should not stray too far from its original concept — an opportunity for forensic toxicologists to informally gather and exchange information. The spirit of that conviction is demonstrated in the regular **ToxTALK** feature of the same title. So bring your problems, suggestions, solutions, etc. with you for this event.

Thursday morning will begin with a program put together by the DUI Committee chaired by Dr. Everett Solomons; followed by the annual SOFT business meeting. The afternoon session will feature a fentanyl symposium chaired by Dr. Donald Cox. Friday we will have a full mor-

ning of papers then cap the meeting with the Awards Banquet. Special thanks to Roche Diagnostics for their generous contribution for the Awards Banquet. The meeting will officially adjourn about 2:00 p.m.

There will be plenty of opportunity for informal sessions in the Florida sunshine. Remember, Key Biscayne is sub-tropical so casual dress (sports shirts, slacks/skirts, comfortable shoes) is appropriate. Bring your swimsuit and tennis racket for a little outdoor exercise

It looks like we will probably meet the minimum number required by the hotel to put on a tropical luau Thursday night. This is a "dress up" affair — i.e., Hawaiian-print shirts, straw hats, and grass skirts or similar attire. A luau king and queen will be "crowned" based on costume.

If you are interested in an underwater adventure, join the expedition to John Pennycamp's Underwater State Park for scuba diving (if you are certified) or snorkeling on Saturday. Carpools can be formed to share the expense of getting to Key Largo. Your \$20 fee pays for instruction and the boat.

Bringing a guest? A time will be posted at the registration desk for guests looking for other guests to go sightseeing, etc. Information on local attractions will be in your meeting packet and at the registration desk.

Remember, the early registration deadline was September 8. All subsequent registrations must include the obligatory \$10.00 late fee and be sent directly to:

Dr. Leonard Bednarczyk
1987 SOFT Meeting Host
Dade-Miami Criminal Justice Council
864 N.W. 23rd Street — Room 203
Miami, FL 33127

Telephone: (305) 638-5765

Pre-registrants will have materials waiting for them at the registration desk for easy pick-up. On-sight registration is welcome but the availability of all materials cannot be guaranteed.

SONESTA BEACH HOTEL

350 Ocean Drive, Key Biscayne, FL 33149
Toll Free: 1-800-343-7170

SPECIAL RATE FOR SOFT MEETING

\$80.00 Single/Double
\$285.00 Islandview Suite
\$310.00 Oceanview Suite

Please contact the hotel directly. The following information may be helpful to your planning.

- Reservations must be made 30 DAYS PRIOR to arrival
- A one night's deposit is required to confirm
- Check-in time is 3:00 p.m., and check-out time is noon
- May extend special rate 2 days before and/or after meeting
- Fixed daily service charge of \$6 per person for bellman, maids, doormen and pool/beach attendants
- Ocean-front beach, swimming pool, 10 tennis courts, saunas, whirlpool
- Rentals available include — bicycles, sailboats, windsurfing
- Valet parking lot (\$4.50 per day)
- 6¼ miles off US 1 on Key Biscayne
- Approximately 15 miles from Miami Airport
- Airport transportation:
 - \$11.00 airport limo (makes many stops in Miami first);
 - \$22.00 taxi

EXHIBITORS AND SPONSORS PREPARE FOR S.O.F.T. MEETING

An integral part of the annual meeting is the participation of corporate sponsors. Exhibitors offer an opportunity to view state-of-the-art instrumentation and important products and direct dialogue with company representatives. Additionally, funds generated from exhibition space plays an important role in keeping registration fees contained.

At the time this issue of **ToxTALK** was prepared, the following companies had registered as 1987 meeting exhibitors:

Abbott Laboratories
Diagnostic Products, Inc.
EM Diagnostics, Inc.
Finnigan MAT
Genetic Diagnostic Corp.
Hewlett Packard Corp.
ICN Biomedicals
Perkin-Elmer Corp.
Preston Publications
Radian Corp.
Roche Diagnostics
Shimadzu Scientific Instruments, Inc.

Additionally, some corporate sponsors also help underwrite the costs of refreshment breaks and social events. Special thanks to *Roche Diagnostics* for supporting the Awards Banquet and *Abbott Laboratories* for supporting the Welcome Reception.

If your company is interested in becoming a meeting exhibitor or sponsor, please contact Dr. Bednarczyk at 1-305-638-5765.

CAREER OPPORTUNITIES

Analytical Toxicologist: Bachelor's degree in chemistry or related science plus two years experience in forensic or analytical chemistry laboratory required; must have experience with drug analysis by GC, HPLC. Experience with GC/MS preferred. Send resume or contact Douglas E. Rollins, M.D., Ph.D., Director, Center for Human Toxicology, University of Utah, Salt Lake City, Utah 84112 (801) 581-5117.

Ph.D. Forensic Analytical Chemist/Toxicologist: Must have at least 3 years training and experience in forensic analytical chemistry, industrial hygiene, or toxicology with Ph.D. in related field; solid analytical skills and chemistry credentials; written and oral communication skills; ability to understand and use QA/QC; demonstrated experience with GLC, HPLC, asbestos and/or forensic microscopy, GC/MS. Excellent salary, benefits, location, reports to laboratory director with goal of becoming laboratory director. Educational program and moving expenses negotiable. Send resume to Dr. R. K. Simon, Washington Analytical Laboratory, Inc., 14214 Coda Place, Chantilly, VA 22021 (telephone: 703-631-6871). Dr. Simon will be interviewing at the SOFT Annual Meeting in Key Biscayne.

Forensic Analytical Chemist/Toxicologist II: Immediate opening for new Ph.D. or M.S. Chemistry (or equivalent) with more than 2 years experience. Requires solid analytical skills and chemistry credentials; demonstrates experience with GLC, HPLC, asbestos and/or forensic microscopy. Excellent salary, benefits, location, growth position with supervisory potential; educational program and moving expenses negotiable. Send resume to Dr. R. K. Simon, Washington Analytical Laboratory, Inc., 14214 Coda Place, Chantilly, VA 22021 (telephone: 703-631-6871). Dr. Simon will be available at the 1987 SOFT Annual Meeting.

Analytical Toxicologist: Instrumental organic and inorganic bioanalytical service work; instrument maintenance and basic repair; methods development and validation. Minimum requirements include masters degree in chemistry with 5 years increasingly responsible experience. Competitive salary and fringe benefits. At least one position available. Send resume to National Medical Services, Inc., P.O. Box 433A, Willow Grove, PA 19090, Attention: Dr. F. Rieders (telephone: 215-657-4900).

Do you have a position available that may be of interest to SOFT members? Please submit the information to ToxTALK. There is no fee for this service.

TREASURY NOTES

Treasurer Jim Valentour will accept dues payments during the first break on September 30th at the registration desk and preceding the business meeting October 1st.

Remember — you must be a *current* member of SOFT to qualify for meeting registration discounts and voting privileges.

SPECIAL AIR FARES FOR 1987 SOFT ANNUAL MEETING

**Save 65% Off Published Coach Round Trip Fare
Or 30% Off First Class Round Trip Fare
On Eastern Airlines**

The Official Airline for the 1987 SOFT Meeting

Take advantage of this opportunity to save money and have the convenience of nationally-recognized AAA (Michigan) CONVENTION SERVICES taking care of your travel plans to the 1987 SOFT Annual Meeting in Key Biscayne, Florida, September 29th to October 2nd. Any person participating in the SOFT meeting is eligible for this great discount!

It's easy. Follow these simple steps.

1. Review the meeting schedule.
2. Preferred date of departure: _____ return: _____
** The special rate are applicable from September 26th to October 5th **
3. If using a major credit card, have it handy.
4. Call 1-800-468-7022 (toll free).
5. Give the special SOFT Identification No.: E Z 9 B P 7 8.
Note reservation information here for your reference:

TO MIAMI/Key Biscayne: # _____ Departs: _____ Arrives: _____

FROM MIAMI: # _____ Departs: _____ Arrives: _____

If you have further questions or any difficulties, you may contact AAA Convention Services Group Travel Specialist Sylvia Shaw at (313) 443-8946.

Your participation will help SOFT negotiate future air/travel discounts.

ELMER GORDON OPEN FORUM

QUALITY PRINTING NEEDED — If you have access to a high quality computer printer and IBM compatible system, SOFT needs you. Would you be willing to print material from a disk specifically for SOFT related needs (programs, ToxTALK inserts, etc.)? Or do you have a system capable of variable fonts to fill in certificates? Contact Pat Monforte c/o ToxTALK or call (313) 884-4718.

ANNOUNCEMENTS

J.A.T. UPDATE — Dr. Joseph R. Monforte reports that Preston Publications will again provide complimentary copies of the SOFT Special Issue of JAT at the SOFT Annual Meeting.

PROFESSIONAL CALENDAR

SEPTEMBER 29 - OCTOBER 2, 1987: SOFT National Meeting, Key Biscayne, FL. Contact Leonard Bednarczyk, Ph.D., 834 Northwest 23rd Street, Room 203, Miami, FL 33127 (telephone: 305-638-5765)

NOVEMBER 6, 1987: "Method Development for New Drugs" workshop sponsored by the California Association of Toxicologists (CAT), Phoenix, AZ. Contact Susan Rasmussen, San Diego County Sheriff's Office Crime Laboratory, 3520 Kurtz Street, San Diego, CA 92112 (telephone: 619-299-8580)

NOVEMBER 7, 1987: CAT quarterly meeting, Phoenix, AZ. Contact Paul Sedgwick, Orange County Sheriff-Coroner, Forensic Science Services, P.O. Box 449, Santa Ana, CA 92702 (telephone: 714-647-7481)

NOVEMBER 12-14, 1987: CliniChem-87, sponsored by the Alliance of Northeastern Sections and the Animal Clinical Chemistry Division of AACC, Albany, NY. Of special interest: "Emergency Toxicology and Support of ER and Trauma Programs" and "Screening and Confirmation of Drugs of Abuse" workshops and Symposium Session I — Drugs Abuse Testing in the workplace. Contact D.A. Nealon, Ph.D., Wadsworth Center for Laboratories and Research, NYS Department of Health, Empire State Plaza, Albany, NY 12201 (telephone: 518-474-8683)

OCTOBER 1988: SOFT ANNUAL MEETING, Philadelphia.

NEW SOFT MEMBERS

ASSOCIATE MEMBERS — Anthony P. D'Addario, Ph.D., Jan L. Johnson, B.S., Julie K. Lawrence, B.A., Walter McCurdy, B.S., and Susan C. Vondrak, B.S.

FULL MEMBER — Jeffrey A. Gere, Ph.D.

PROMOTED — Mjr. William E. Ottinger, Ph.D. (to Full Member)

MEMBERS ON THE MOVE

Timothy P. Rohrig, Ph.D., Office of the Chief Medical Examiner, Toxicology Laboratory, 901 North Stonewall, Oklahoma City, OK 73117. (405) 239-7141.

Sally Watford, GA Bureau of Investigation, Div. of For. Sci., 925 A Mohawk Street, Savannah, GA 31419.

Be sure to notify ToxTALK of any address change.



S.O.F.T. ANNUAL MEETING - September 29 to October 2, 1987
Key Biscayne, Florida

REGISTRATION FORM

Name _____ Degree _____

Agency/Company _____

Address _____

City _____ State _____ Zip Code _____

Telephone _____ SOFT member yes no

FEE

MEETING REGISTRATION \$ _____
_____ \$45 current SOFT member _____ \$65 Non-member
_____ \$20 Full time student (scientific sessions only)

WORKSHOP: Quality Assurance Workshop for Forensic Toxicology
Drug Testing (9/29) \$ _____
_____ \$25 current SOFT member _____ \$50 Non-member

LUAU (~~10/03~~ 9/1987) _____ tickets @ \$44 ea. = \$ _____

UNDERWATER EXPEDITION (10/03) _____ tickets @ \$20 ea. = \$ _____

ADDITIONAL TICKETS: Awards banquet _____ tickets @ \$17 ea. = \$ _____

Name of guest _____
Complimentary reception ticket for early registered guest

TOTAL ENCLOSED \$ _____

Please make checks payable to S.O.F.T.

MAIL BEFORE SEPTEMBER 8th to: S.O.F.T. GENERAL OFFICES
1013 Three Mile Drive
Grosse Pointe Park, MI 48230-1412
telephone: 313-884-4718

AFTER SEPTEMBER 8 include late fee + \$ 10.00

TOTAL ENCLOSED \$ _____

AFTER SEPTEMBER 8th mail to: Leonard R. Bednarczyk, Ph.D.
S.O.F.T. Meeting Host
Dade-Miami Criminal Justice Council
864 N.W. 23rd Street - Room 203
Miami, FL 33127
telephone: 305-638-5765

A \$10.00 handling charge will be applied to all refund requests received before September 28th; no refunds issued after September 28th.

_____ Please send information on S.O.F.T. membership requirements





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DO NOT WAIT — RESERVATIONS MUST BE MADE AT LEAST 10 DAYS IN ADVANCE.

It's easy. Follow these simple steps.

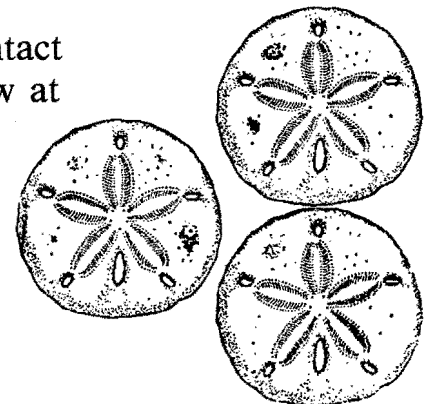
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Society of Forensic Toxicologists Workshop Program:

"Principles and Practices of Quality Assurance for Forensic Toxicology Drug Testing" September 29, 1987

Session	Time	Speaker	Topic
0	0730 0800	Continental Breakfast R.K. Simon, Ph.D.	• Continental Breakfast • A.M. Coordinator
1	0815	Cmdr. John Irving, Ph.D. U.S. Navy FIDTP	• Why do we care about QA/QC?
2	0830	William Coakley U.S. EPA	• QA Goals & Objectives; • Review of successful QA Programs for QA development.
3	0915	R.J. Bath, Ph.D. Bath Toxicology Group	• Establishing QA Organizations; • Writing QA Policy for Users & Providers; Documenting QA.
	0945	Refreshment Break	Refreshment Break
4	1000	LTC Jon Jewell, Ph.D. U.S. Army FIDTP	• Physical Forensic Layout ; • Writing FIDTL SOPs; • Establishing Statistical QA/QC Procedures in the FIDTL
5	1045	CPT John Cody, Ph.D. US Air Force FIDTL	• Establishing and Implementing a FIDTL Quality Control Program
6	1120	M.A. Elsohly, Ph.D. Elsohly Labs, Inc.	• Urine Standards and Controls: Preparation, Use and Data Review.
7	1200 1250	Luncheon Break LTC Jon Jewell, Ph.D.	• Luncheon Break PM Coordinator
8	1300	Maj. Charles Moore, Ph.D US Army Hawaii FIDTL	• Processing & Initial Testing of Urine for Drugs of Abuse
9	1345	Maj. Jeffrey Gere US Army Fort Meade FIDTL	• GC/MS Confirmation of Urine Positives & Data Certification
	1430	Refreshment Break	Refreshment Break
10	1445	Maj. Michael Smith US Army Wiesbaden FIDTL	• Chain of custody documents, reports, litigation support, physical security
11	1530	Robert K. Simon, Ph.D. Washington Analytical Lab.	• QA Inspections of FIDTLs; Management Inspection Reports.
12	1600	Robert E. Greenberg, Esquire Deso, Greenberg & Thomas	• Use of QA/QC FIDTL Data for Defense of Drug Testing Clients

Society of Forensic Toxicologists

presents

A Training Workshop

"Principles and Practices

of

Quality Assurance

for

Forensic Toxicology Drug Testing"

September 29, 1987



Society of Forensic Toxicologists Workshop Program:

"Principles and Practices of Quality Assurance for Forensic Toxicology Drug Testing" September 29, 1987

The Society of Forensic Toxicologists is pleased to present the workshop:
Principles and Practices of Quality Assurance for Forensic Toxicology Drug Testing

- This workshop has been designed for the user of drug testing services and the forensic toxicology laboratories that will provide these consultation, collection and testing services. This workshop will serve as a training session for new users and providers as well as a retraining session for current users and providers.
- This workshop has been designed to discuss in detail the scientific and legal procedures and processes that must be utilized to document the QA (quality assurance) oversight and the procedural QC (quality control) methods that can provide both user and provider with accurate litigation support data for drug testing;
- This workshop has been designed as an integral, but separate part of the annual SOFT meeting. Workshop attendees will receive a complete text in a hard bound workshop notebook. This workshop notebook will serve as a working text for all attendees.
- Workshop sessions have been designed to reproduce the actual steps in the process of organizing, establishing, implementing and documenting a forensic toxicology drug testing program.
- Attendance at all sessions of the workshop will be mandatory to receive a certificate of completion from SOFT. Partial attendance will not be permitted nor will attendance of selected sessions be permitted.
- The workshop faculty has been selected to provide faculty members actively engaged in the performance of QA/QC in forensic drug testing:
 - (a) The faculty includes members with extensive experience in the successful military drug testing program;
 - (b) The faculty includes members experienced in the highly successful U.S. EPA contract laboratory QA program;
 - (c) The faculty members include consultants, laboratory directors and QA inspectors for forensic drug testing programs; and
 - (d) The faculty includes a civilian attorney with significant success in the defense of law enforcement personnel accused of drug use.

Society of Forensic Toxicologists Workshop Program:

"Principles and Practices of Quality Assurance for Forensic Toxicology Drug Testing" September 29, 1987

- Workshop attendees will have the option of completing an optional QA/QC exam scheduled for 0800 to 0900 on September 30, 1987. Successful completion of this exam with a grade of 85% or greater will be noted on the certificate.
- Workshop posters will be available for review prior to and after completion of the workshop on September 29, 1987. These posters will be prepared by the U.S. Military FTDTL participants. These posters will remain available for review during the September 30, 1987 sessions of the annual meeting.

Faculty Members.

Raymond J. Bath, Ph.D.
Bath Toxicology Group, Inc.
17 Stone Lane
Marlboro, N.J. 07746

Mr. William Coakley
U.S. E.P.A., ERT
Edison, New Jersey 08837

CPT John Cody, Ph.D.
U.S. Air Force DTL
Brooks Air Force Base, TX
78235-5000

Mahmoud A. Elsohly, Ph.D.
Elsohly Laboratories, Inc.
12151/2 Jackson Avenue
Oxford, MI 38655

Robert E. Greenberg, Esquire
Deso, Greenberg and Thomas
1750 K Street, N.W., S 400
Washington, D.C. 20006

Major Jeffrey Gere, Ph.D., OIC
U.S. Army FTDTL
Fort Meade, MD

LTC Jon Jewell, Ph.D.
U.S. Army FTDTL, DASG-PSA-A
Skyline 5, 5111 Leesburg Pike
Falls Church, VA 22041-3258

Cmdr. John Irving, Ph.D.
Navy Medical Command
23rd & E Streets, NW
Wash D.C. 20372

Maj. Charles Moore, Ph.D., OIC
U.S. Army FTDTL
Tripler Army Medical Center
Honolulu, HI

Maj. Michael Smith, Ph.D., OIC
U.S. Army FTDTL
Wiesbaden, GMBH

Robert K. Simon, Ph.D.
Washington Analytical Lab, Inc.
14214 Coda Place
Chantilly, VA 22041

FTDTL(P) = Forensic Toxicology
Drug Testing Laboratory (Program)



QA/QC SURVEY COMMITTEE QUESTIONNAIRE

WITHIN THE NEXT FEW DAYS, PLEASE TAKE A FEW MOMENTS OF YOUR TIME TO FILL OUT AND RETURN THIS QA/QC COMMITTEE SURVEY. A SUMMARY OF SURVEY RESULTS WILL BE REPORTED IN THE DECEMBER ISSUE OF TOX-TALK. SO PLEASE SUBMIT YOUR COMPLETED SURVEY TO PAULA CHILDS BEFORE OCTOBER 15TH. IF YOU HAVE ANY QUESTIONS, CALL PAULA CHILDS AT 919-248-6494.

PAULA CHILDS

P.O. BOX 12732

RESEARCH TRIANGLE PARK, NC 27709

Please note that participating members and laboratories will not be identified.

S.O.F.T QA/QC COMMITTEE SURVEY: FALL 1987

01. Laboratory Type: Primary[1], Secondary[2] Function
Forensic [Solid dose,Criminalistics] _____
Forensic [Biological] _____
Clinical [Toxicology/Pharmacology] _____
Clinical [TDM] _____
02. How many samples does your laboratory analyze monthly? _____
03. How many analytes does your laboratory routinely test for? _____
04. Could you determine the mean, standard deviation, bias, etc on a set of values if they were given to you? Y N
05. Does your laboratory have a documented QC program for the various analytical procedures it performs? Y N
06. Are all assays [save EtOH] performed in your laboratory QC'ed, i.e. are QC specimens incorporated into every analytical batch and are the results of these analyses checked before reporting out results? Y N
07. Does your laboratory have an internal QC program? Y N
08. Does your laboratory have a "blind" QC program? Y N
09. Does your laboratory participate in an external QC program(s)? Y N
10. Does your laboratory prepare its own QC material? Y N
11. Where does your laboratory procure its primary standards? _____
12. Does your laboratory routinely validate the purity of its procured primary standards? Y N
13. Are standards [as well as all reagents] dated, initialled and do each bear an expiration date? Y N
14. Does your laboratory follow Standard Operating Procedures SOP's? Y N
15. Do your laboratory's SOPs include:
Chain of custody [sample handling and security]. Y N
Procedure section, including a detailed description of all steps involved in the processing, analysis and reporting of a result. Y N
Policy for handling out of control analyses, i.e QC doesn't meet acceptance criteria. Y N
Policy and procedures for confirmation activities. Y N
Indications of continuous review. Y N

