APPENDIX A

Summary of Botulism Cases Reported in 2001

A total of 169 cases of botulism intoxication were reported to CDC in 2001. Among the 33 cases of foodborne intoxication, toxin type A accounted for 20 (61%) cases and toxin type E for 10 (30%) cases. The median age of patients was 46 years. One death was reported. There were 4 multicase outbreaks. They were associated with a commercial product and Alaskan native foods.

There were 112 reported cases of infant botulism. Toxin type B accounted for 67 (60%) cases and toxin type A for 45 (40%) cases. The median age of patients was 14 weeks; one death was reported.

There were 23 reported cases of wound botulism. Toxin type A accounted for all but one case. The median age of patients was 41 years; one death was reported.

There was 1 reported case of adult colonization botulism. This case was caused by toxin type F. The 45 year old patient survived.

Table 1. Summary of Reported Botulism Cases - 2001

Foodborne

uses	
Median age:	46 years (range: 3-78 years)
Death:	1 confirmed, 3 cases without information
Gender:	17 (51%) male, 16 (49%) female
Toxin type:	20 (61%) type A, 10 (30%) type E, 2 (6%) type B; 1 (3%) type F
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4 multi-case outbreaks

<u>Infant</u>

112 cases

Median age:	14 weeks (range: 0 - 52 weeks)
Death:	1 confirmed, 4 without information
Gender:	62 (55%) male, 50 (45%) female
Toxin type:	45 (40%) type A, 67 (60%) type B

Wound 23 cases

Median age:	41 years (range: 23 - 58 years)
Death:	1 confirmed, 11 without information
Gender:	9 (39%) male, 14 (61%) female
Toxin type:	22 (96%) type A; 1 (4%) type B

Adult Intestinal Colonization

1 case

Age:	45 years
Death:	No death reported
Gender:	1 (100%) female
Toxin type:	1 (100%) type F

Table 2. Cases of Botulism by State and TypeJanuary 1- December 31, 2001

State/District	Foodborne	Infant	Wound	Other*	<u>Total</u>
AK	9				9
AR	1				1
AZ	1	2			3
CA	4	31	20		55
DE		6			6
GA		2			2
HI		2			2
KY		5			5
LA	1				1
MD		4		1	5
MN		2			2
MO		1			1
MT		1			1
NJ		6			6
NM			2		2
NV		1			1
NY		2			2
NYC		4			4
ОН		4			4
ОК		1			1
OR		2	1		3
PA		13			13
TN		4			4
ТХ	16	4			20
UT		4			4
VA		4			4
WA	1	6			7
WV		1			1
<u>Totals:</u>	33	112	23	1	169

* Adult intestinal colonization

Table 3. Cases of Foodborne Botulism by Month (N=33)January 1 - December 31, 2001

<u>Month</u>	<u>State</u>	<u>Age (years)</u>	<u>Gender</u>	<u>Toxin Type</u>	Vehicle	<u>Death</u>
January	AK [*]	52	Female	E	Beaver	No
	AK [*]	67	Female	E	Beaver	No
	AK [*]	43	Male	E	Beaver	No
	AK [*]	46	Female	E	Beaver	No
	CA	41	Female	F	Spaghetti sauce	No
March	WA	45	Female	A	Home canned asparagus	No
	CA	37	Male	E	Fish/Home Preserved	Unknown
April	CA	43	Female	E	Fish/Home Preserved	Unknown
June	AZ	25	Female	A	Pickled pigs feet	No
July	AK [*]	65	Female	E	Whitefish	No
	AK [*]	66	Male	E	Whitefish	No
	LA	77	Female	В	Home canned food	Yes
August	AK	47	Female	В	Unknown	No
	AK [*]	50	Female	E	Stink Eggs	No
	AK [*]	36	Female	E	Stink Eggs	No
	AR	51	Male	А	Unknown	No
	ΤX [*]	7	Male	A	Chili	No
	ТХ [*]	17	Male	А	Chili	No
	ΤX [*]	46	Male	А	Chili	No
	ΤX [*]	52	Male	A	Chili	No
	ΤX [*]	3	Female	А	Chili	No
	ΤX [*]	42	Male	А	Chili	No
	ΤX [*]	49	Male	А	Chili	No
	TX^*	29	Male	А	Chili	No
	ΤX [*]	72	Male	А	Chili	No
	TX^*	53	Female	A^\dagger	Chili	No
	TX^*	50	Male	A^\dagger	Chili	No
	TX^*	62	Female	A^\dagger	Chili	No
	ΤX [*]	45	Male	A^{\dagger}	Chili	No
	ΤX [*]	78	Male	A [†]	Chili	No
	ΤX [*]	17	Male	A [†]	Chili	No
	ΤX [*]	25	Female	A [†]	Chili	No
November	CA	50	Male	A	Unknown	Unknown

* Cases involved in a multicase outbreak. AK (3 outbreaks), TX (1 outbreak)

[†]Toxin type in epidemiologically-linked case.

Table 4. Cases of Infant Botulism by Month (N=112)January 1 - December 31, 2001

<u>Month</u>	<u>State</u>	<u>Age (weeks)</u>	<u>Gender</u>	<u>Toxin type</u>	<u>Death</u>
January	ОН	11	Male	В	No
January	MN	5	Male	А	No
January	CA	6	Female	А	No
January	CA	14	Male	А	No
January	VA	10	Male	В	No
January	NV	15	Male	А	No
January	MD	16	Male	В	No
January	UT	6	Female	A	No
January	NJ	3	Female	В	No
February	DE	21	Female	В	No
February	VA	9	Female	В	No
February	CA	16	Female	В	No
February	KY	8	Male	В	No
February	NJ	23	Male	В	No
March	CA	21	Male	A	No
March	CA	24	Male	A	No
March	CA	25	Male	A	No
March	CA	27	Female	А	No
March	NY	8	Male	A	No
March	CA	4	Male	А	No
March	DE	14	Male	В	No
March	TN	4	Female	A	No
March	PA	18	Female	В	No
March	AZ	6	Male	A	No
March	HI	20	Female	В	No
March	WA	26	Male	A	Unknown
April	DE	6	Female	В	No
April	CA	12	Female	A	No
April	OK	44	Male	В	No
April	PA	21	Female	В	No
April	OH	8	Male	В	No
March	TN	12	Male	В	No
April	OR	20	Female	А	Unknown
April	PA	6	Female	В	No
April	CA	50	Male	А	No
April	MD	9	Male	В	No
April	OR	21	Female	A	No
April	NY	2	Male	В	No
April	ТХ	10	Female	А	No
April	CA	24	Female	А	No
Мау	DE	5	Female	В	No
Мау	NJ	19	Male	В	No
Мау	NJ	5	Male	В	No

Table 4. Cases of Infant Botulism by Month (N=112)January 1 - December 31, 2001

<u>Month</u>	State	<u>Age (weeks)</u>	Gender	Toxin type	<u>Death</u>
Мау	PA	40	Female	В	No
Мау	UT	4	Male	В	Yes
Мау	WA	7	Male	А	No
Мау	WV	8	Female	В	Unknown
Мау	ТХ	0	Female	A	No
May	KY	27	Female	В	No
Мау	CA	13	Female	В	No
Мау	NYC	19	Female	В	No
June	DE	32	Male	В	No
June	NYC	34	Male	В	No
June	NYC	16	Male	В	No
June	PA	10	Male	В	No
June	UT	4	Male	А	No
July	MT	19	Male	А	No
July	CA	9	Male	В	No
July	CA	15	Male	А	No
July	UT	10	Male	А	No
July	WA	7	Female	А	No
July	WA	52	Male	А	No
July	TN	8	Female	В	No
July	GA	2	Female	В	No
July	WA	11	Female	В	No
July	KY	16	Male	В	No
August	MD	11	Male	В	No
August	PA	18	Male	В	No
August	MD	19	Male	А	No
August	ТХ	2	Male	В	No
August	CA	9	Female	A	No
August	CA	27	Male	В	No
August	HI	6	Female	В	No
August	KY	18	Female	В	No
August	MO	17	Female	В	No
August	CA	21	Male	В	No
September	DE	10	Female	В	No
September	CA	20	Female	A	No
September	CA	13	Female	A	No
September	CA	13	Male	A	No
September	PA	43	Female	В	No
September	AZ	13	Female	A	No
September	PA	15	Male	В	No
September	CA	17	Female	В	No
September	NJ	23	Male	В	No
September	CA	24	Male	A	No

Table 4. Cases of Infant Botulism by Month (N=112)January 1 - December 31, 2001

<u>Month</u>	<u>State</u>	<u>Age (weeks)</u>	Gender	<u>Toxin type</u>	Death
September	CA	14	Female	А	No
October	CA	21	Female	А	No
October	MN	21	Male	А	No
October	CA	25	Female	В	No
October	GA	6	Female	А	No
October	CA	21	Male	А	No
October	PA	28	Male	В	No
October	CA	3	Female	В	No
October	ТХ	5	Male	А	No
November	TN	14	Female	В	Unknown
November	CA	12	Male	А	No
November	CA	7	Male	В	No
November	NJ	18	Female	В	No
November	PA	11	Male	В	No
November	CA	18	Male	А	No
November	VA	9	Male	В	No
November	CA	8	Male	В	No
November	WA	22	Male	A	No
November	KY	3	Male	А	No
November	ОН	9	Female	В	No
December	PA	18	Female	В	No
December	NYC	10	Female	В	No
December	PA	15	Female	В	No
December	VA	4	Male	В	No
December	ОН	24	Male	В	No
December	PA	11	Male	В	No

Table 5. Cases of Wound Botulism by Month (N=23)January 1 - December 31, 2001

<u>Month</u>	<u>State</u>	<u>Age (years)</u>	<u>Gender</u>	<u>Toxin Type</u>	Exposures [*]	<u>Death</u>
January	CA	38	Male	А	IDU	No
	CA	43	Male	А	IDU	No
March	OR	41	Male	А	IDU	Unknown
April	CA	50	Male	A	IDU	Unknown
Мау	NM	39	Male	A	Contaminated wound following $MVA^{\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	Yes
	CA	52	Male	А	IDU	No
	CA	41	Male	А	IDU	Unknown
June	CA	56	Male	A	IDU	No
July	CA	58	Female	А	IDU	Unknown
	CA	37	Male	A	IDU	No
	CA	30	Female	A	IDU	No
	CA	33	Female	А	IDU	Unknown
	CA	29	Female	А	IDU	Unknown
August	CA	42	Male	А	IDU	No
September	CA	23	Male	А	IDU	No
October	CA	41	Female	А	IDU	Unknown
	CA	46	Female	A	IDU	No
November	CA	43	Female	A	IDU	Unknown
	CA	40	Female	В	IDU	Unknown
	NM	47	Male	A	IDU	No
December	CA	46	Male	A	IDU	No
	CA	48	Male	А	IDU	Unknown
	CA	35	Female	А	IDU	Unknown

* IDU= Injection drug use

[†]MVA=Motor vehicle accident

Table 6. Case of Adult Intestinal Colonization Botulism (N=1) January 1 - December 31, 2001

<u>Month</u>	<u>State</u>	Age (years)	<u>Gender</u>	<u>Toxin Type</u>	<u>Death</u>
October	MD	45	Female	F	No