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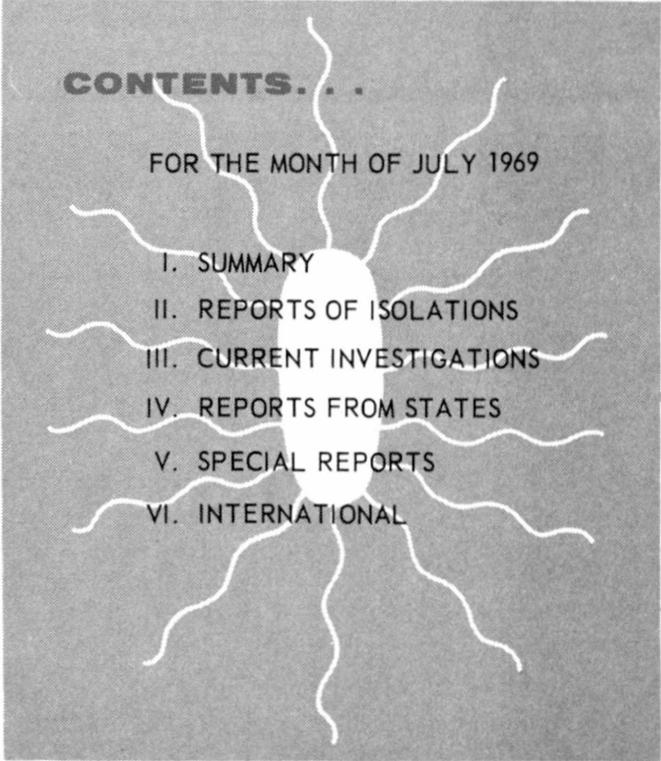
NATIONAL
COMMUNICABLE DISEASE CENTER

SALMONELLA

SURVEILLANCE

CONTENTS . . .

FOR THE MONTH OF JULY 1969

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- I. SUMMARY
 - II. REPORTS OF ISOLATIONS
 - III. CURRENT INVESTIGATIONS
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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE/PUBLIC HEALTH SERVICE
Bureau of Disease Prevention and Environmental Control

PREFACE

Summarized in this report is information received from State and City Health Departments, university and hospital laboratories, the National Animal Disease Laboratory (USDA, ARS), Ames, Iowa, and other pertinent sources, domestic and foreign. Much of the information is preliminary. It is intended primarily for the use of those with responsibility for disease control activities. Anyone desiring to quote this report should contact the original investigator for confirmation and interpretation.

Contributions to the Surveillance Report are most welcome. Please address

National Communicable Disease Center
Attn: Chief, Salmonellosis Unit
Epidemiology Program
Atlanta, Georgia 30333

National Communicable Disease Center	David J. Sencer, M.D., Director
Epidemiology Program	Alexander D. Langmuir, M.D., Director
Bacterial Diseases Branch	Philip S. Brachman, M.D., Chief John V. Bennett, M.D., Deputy Chief
Enteric Diseases Section	Eugene J. Gangarosa, M.D., Chief
Salmonellosis Unit	Andrew Mallory, M.D., Chief Matthew S. Loewenstein, M.D. Marshall D. Fox, D.V.M.
Statistician	Stanley M. Martin, M.S.
Epidemiological Services Laboratory Section	Philip S. Brachman, M.D., Acting Chief
Salmonella Laboratory Unit	George K. Morris, Ph.D., Chief
Office of Veterinary Public Health Services	James H. Steele, D.V.M., Chief

Collaborators

Laboratory Division

Bacteriology Section

Enteric Bacteriology Unit	William H. Ewing, Ph.D., Chief William J. Martin, Ph.D., Asst. Chief
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September 15, 1969

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III. CURRENT INVESTIGATIONS

NONE

IV. REPORTS FROM THE STATES

NONE

V. SPECIAL REPORTS

NONE

VI. INTERNATIONAL

Salmonellosis in Belgium

During the year 1968, there were a total of 3,876 human isolations of salmonellae in Belgium. This represented a slight increase from the sum of 3,702 isolations during the preceding year. Fifty-four different serotypes were identified; Salmonella typhi-murium accounted for 2,532 isolates or 65.3 percent of the total. Salmonella panama, for the sixth consecutive year, was the second most common serotype with 577 isolates (14.9 percent). This in turn was followed by S. brandenburg with 214 isolates (5.5 percent); S. infantis with 151 isolates (3.9 percent); and S. bovis-morbificans with 50 isolates (1.3 percent). These five most common serotypes accounted for 3,524 isolates or 91 percent of the total for the year. The other 352 cultures were divided among 49 serotypes, none of which accounted for more than one percent of the total isolations.

Nine serotypes, including S. cerro, S. elisabethville, S. glostrup, S. madelia, S. mishmar-haemek, S. nairobi, S. ness-ziona, S. riggil, and S. tarshyne, were isolated for the first time in Belgium. Foreign travel to Africa was frequently associated with these new isolations.

Salmonella typhi was isolated on 16 occasions. Nearly all of these isolates were obtained from individuals who had traveled to southern Europe or North Africa shortly prior to the onset of their illness.

During the year no major outbreaks of salmonellosis were reported. Rather, the disease seemed to be limited to intrafamily spread. The most important of these included eight members of a family infected with S. menston.

During the latter half of 1968, there was an increase in the incidence of isolations of S. infantis from several regions of the country. The reason for this increase was not elucidated.

S. typhi-murium including var. copenhagen continued to be the most frequently isolated serotype from animals or animal products. Thirty-nine other serotypes were recovered; none accounted for more than a few isolations, however.

TABLE I - Continued

GEOGRAPHIC DIVISION AND REPORTING CENTER																				TOTAL	% OF TOTAL	CUMULATIVE TOTAL	% OF CUMULATIVE TOTAL	SEROTYPE	
EAST S. CENTRAL				WEST S. CENTRAL				MOUNTAIN							PACIFIC										
KY	TEN	ALA	MIS	ARK	LA	OKL	TEX	MON	IDA	WYO	COL	NM	ARI	UTA	NEV	WAS	ORE	CAL	ALK						HAW
						1	1									1				1	6	0.3	77	0.7	<i>anatum</i>
	1				1		4				1									2	11	0.5	36	0.3	<i>bareilly</i>
																				3	38	1.8	253	2.3	<i>blockley</i>
																					8	0.4	51	0.5	<i>braenderup</i>
																		1	1	1	17	0.8	75	0.7	<i>bredenev</i>
																					5	0.2	24	0.2	<i>chester</i>
																					3	0.1	8	0.1	<i>cholerae-suis v kun</i>
	1				1		3														19	0.9	85	0.8	<i>cubana</i>
1	3			1	2	2	1	1								3	1	11		5	20	0.9	162	1.5	<i>derby</i>
																					193	9.0	1,012	9.4	<i>enteritidis</i>
					1		7														8	0.4	40	0.4	<i>give</i>
1	3	7			5											3	1	8			137	6.4	693	6.4	<i>heidelberg</i>
	1	1																			12	0.6	64	0.6	<i>indiana</i>
	6					3	4	1	1							7		11			104	4.8	663	6.1	<i>infantis</i>
					2																21	1.0	84	0.8	<i>java</i>
			1		3	1	10														41	1.9	153	1.4	<i>javiana</i>
	2	1			1																14	0.6	52	0.5	<i>litchfield</i>
																					3	0.1	22	0.2	<i>livingstone</i>
1	1				1															1	25	1.2	131	1.2	<i>manhattan</i>
																					7	0.3	53	0.5	<i>miami</i>
		1			5		1														9	0.4	20	0.2	<i>mississippi</i>
					2	1	1							1							34	1.6	144	1.4	<i>montevideo</i>
		1																			20	0.9	97	0.9	<i>muenchen</i>
											1										2	0.1	13	0.1	<i>newington</i>
1				4	10		20						2				1	10			150	7.0	696	6.4	<i>newport</i>
	1				4		6														27	1.3	127	1.2	<i>oranienburg</i>
							3														40	1.9	149	1.4	<i>panama</i>
							1														14	0.6	98	0.9	<i>paratyphi B</i>
																					4	0.2	29	0.3	<i>reading</i>
		2			2	1	9									1	1	15		1	113	5.2	496	4.6	<i>saint-paul</i>
					1													1	1		6	0.3	29	0.3	<i>san-diego</i>
											1									1	9	0.4	37	0.3	<i>schwarzengrund</i>
																					7	0.3	46	0.4	<i>senftenberg</i>
																					1	0.3	25	0.2	<i>tennessee</i>
2	4	3			3		3									1		10		1	75	3.5	564	5.2	<i>thompson</i>
	4			1			1					1									44	2.0	271	2.5	<i>typhi</i>
5	12	8	1	4	6	3	28	2	3		2	1		2		9	7	72	1	27	656	30.4	3,009	27.9	<i>typhimurium</i>
	2			1				1	1												29	1.3	132	1.2	<i>typhimurium v cop</i>
																					5	0.2	26	0.2	<i>weltevreden</i>
	1						2														5	0.2	20	0.2	<i>worthington</i>
12	42	24	3	10	50	12	106	5	5	-	5	1	2	4	-	30	18	200	1	57	1947	90.3	9,766	90.4	TOTAL
-	3	-	8	5	7	-	26	-	-	-	-	15	-	-	4	6	1	8	2	4	208		1,034		ALL OTHER*
12	45	24	11	15	57	12	132	5	5	-	5	16	2	4	4	36	19	208	3	61	2155		10,800		TOTAL

TABLE II. OTHER SALMONELLAE REPORTED FROM HUMAN SOURCES, JULY 1969

SEROTYPE	REPORTING CENTER																								
	ALK	ARK	CAL	CON	DC	FLA	GA	HAW	ILL	IND	IOW	LA	MD	MAS	MIC	MIS	MO	NEV	NH	NJ	NM	NYA	NYC	OH	
<i>alachua</i>									1				1												
<i>albany</i>			1																						
<i>atlanta</i>							2																		
<i>berta</i>			1			2																			
<i>bonaire</i>									1																
<i>bovis-morbificans</i>																									
<i>brunei</i>																									
<i>california</i>							1																		
<i>cerro</i>								1																1	1
<i>colorado</i>																							1		
<i>daytona</i>																									
<i>drypool</i>		1				1																			
<i>eimsbuettel</i>				1								1													
<i>gaminara</i>											1	2													
<i>gatow</i>																									
<i>georgia</i>																	1								
<i>habana</i>														3											
<i>hartford</i>				1					1																
<i>heilbron</i>																	1								
<i>ibadan</i>																									
<i>inverness</i>															1										
<i>irumu</i>																	2								
<i>johannesburg</i>			1																	1					
<i>kentucky</i>								1																	
<i>lomita</i>																									
<i>london</i>																									
<i>madelia</i>						1																			
<i>minnesota</i>		2																						1	
<i>mission</i>										1															
<i>norwich</i>																									
<i>ohio</i>												3													
<i>oslo</i>								1	1																
<i>paratyphi A</i>								1																	
<i>pensacola</i>																									
<i>poona</i>			1			1						3	1	2									3		
<i>potsdam</i>							1																		
<i>saphra</i>																									
<i>sendai</i>					1																				
<i>siegburg</i>																									
<i>simsbury</i>														1											
<i>tallahassee</i>																									
<i>urbana</i>			1	1						1		1		1	1									2	
<i>welikada</i>												3													
<i>willemstad</i>																									
TOTAL	—	3	5	3	1	5	4	4	4	2	1	7	7	6	4	—	4	—	—	1	—	—	4	4	
NOT TYPED*	2	2	3	—	6	1	—	—	4	—	2	—	—	—	—	8	—	4	8	—	15	38	—	—	
TOTAL	2	5	8	3	7	6	4	4	8	2	3	7	7	6	4	8	4	4	8	1	15	38	4	4	

* See Table V-A

TABLE II - Continued

REPORTING CENTER												TOTAL	CUMULATIVE TOTAL	SEROTYPE	
ORE	PA	RI		TEN	TEX	VT		VA	WAS	WIS					
				1									3	4	<i>alachua</i>
													1	7	<i>albany</i>
													2	8	<i>atlanta</i>
													3	16	<i>berta</i>
													1	1	<i>bonaire</i>
									3				3	5	<i>bovis-morbificans</i>
					1								1	1	<i>brunei</i>
													1	6	<i>california</i>
													2	7	<i>cerro</i>
													1	1	<i>colorado</i>
													1	1	<i>daytona</i>
													2	5	<i>drypool</i>
					1								3	18	<i>eimsbuettel</i>
													3	5	<i>gaminara</i>
					1								1	1	<i>gatow</i>
													1	1	<i>georgia</i>
									2				3	5	<i>habana</i>
													4	23	<i>hartford</i>
													1	1	<i>heilbron</i>
													1	1	<i>ibadan</i>
													1	4	<i>inverness</i>
													2	3	<i>irumu</i>
													2	4	<i>johannesburg</i>
													1	5	<i>kentucky</i>
					1								1	4	<i>lomita</i>
									1				1	5	<i>london</i>
													1	8	<i>madelia</i>
													3	6	<i>minnesota</i>
													1	1	<i>mission</i>
					3								3	8	<i>norwich</i>
	1												3	7	<i>ohio</i>
													3	10	<i>oslo</i>
													1	7	<i>paratypi A</i>
	1												1	1	<i>pensacola</i>
					1								12	30	<i>poona</i>
													1	1	<i>potsdam</i>
						1							1	1	<i>saphra</i>
													1	1	<i>sendai</i>
						1							1	12	<i>siegburg</i>
													1	15	<i>simsbury</i>
					1								1	6	<i>tallahassee</i>
										1			9	20	<i>urbana</i>
													3	3	<i>welikada</i>
					1								1	2	<i>willemstad</i>
-	2	-		3	11	1		3	3	1			93	413	TOTAL
1	-	1		-	15	-		-	3	2			115	621	NOT TYPED*
1	2	1		3	26	1		3	6	3			208	1034	TOTAL

Cumulative Totals include isolations of all serotypes (except those listed in Table I) reported this year.

TABLE III. COMMON SALMONELLAE REPORTED FROM NONHUMAN SOURCES, JULY 1969

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
<i>anatum</i>	1	6	15				22	6			6
<i>bareilly</i>	1						1	4			4
<i>blockley</i>	3						3	1			1
<i>braenderup</i>							—			1	1
<i>bredeney</i>	1	2	1				4	4			4
<i>chester</i>		5					5				—
<i>cholerae-suis v kun</i>			52		1		53				—
<i>cubana</i>		1					1	1		1	2
<i>derby</i>	2	1	12				16	1			1
<i>enteritidis</i>	4	1				3	8				—
<i>give</i>		1					1	1			1
<i>heidelberg</i>	21	15	1	1			38	3		2	5
<i>indiana</i>	1						1				—
<i>infantis</i>	13		1			1	15	9		1	10
<i>java</i>							—				—
<i>javiana</i>							—				—
<i>litchfield</i>							—				—
<i>livingstone</i>	1		1			1	3	10		11	21
<i>manhattan</i>			4				4				—
<i>miami</i>							—				—
<i>mississippi</i>							—				—
<i>montevideo</i>	6	2					8	11			11
<i>muenchen</i>	1	1					2	1			1
<i>newington</i>							—				—
<i>newport</i>	5	2				2	9	3			3
<i>oranienburg</i>	2	2					4	1		2	3
<i>panama</i>			3				3				—
<i>paratyphi B</i>							—				—
<i>reading</i>		4				2	6				—
<i>saint-paul</i>	3	2			1		6	1			1
<i>san-diego</i>		11					11				—
<i>schwarzengrund</i>	2					1	3				—
<i>senftenberg</i>	1	6					7	5		19	24
<i>tennessee</i>							—	2			2
<i>thompson</i>	5	1					6				—
<i>typhi</i>							—				—
<i>typhimurium</i>	4	5	19	7	7	6	48	1		2	3
<i>typhimurium v cop</i>	17	4			2	1	24				—
<i>weltevreden</i>							—				—
<i>worthington</i>	3	3				1	7				—
TOTAL	97	75	109	8	11	19	319	65	—	39	104
ALL OTHER*	9	4	10	12	2	9	46	36	—	15	51
TOTAL	106	79	119	20	13	28	365	101	—	54	155

* See Table IV

TABLE III - Continued

WILD ANIMALS AND BIRDS	REPTILES AND ENVIRONMENT	HUMAN DIETARY ITEMS						MISCELLANEOUS	TOTAL	CUMULATIVE TOTAL	SEROTYPE
		EGGS AND PRODUCTS	POULTRY	RED MEAT	DAIRY PRODUCTS	OTHER	SUBTOTAL				
	1	6 1 1 1		1		1	7 1 2 1 —	6 5	41 6 11 3 8	207 23 87 6 64	<i>anatum</i> <i>bareilly</i> <i>blockley</i> <i>braenderup</i> <i>bredenev</i>
1		1 2				4	1 — — 4 2		6 53 3 21 12	22 353 76 108 90	<i>chester</i> <i>cholerae-suis v kun</i> <i>cubana</i> <i>derby</i> <i>enteritidis</i>
1	2 1	8 4	1	4			4 8 — 7 —		7 51 1 34 1	30 513 12 165 7	<i>give</i> <i>heidelberg</i> <i>indiana</i> <i>infantis</i> <i>java</i>
	1					2	2 — — — —		3 — 25 4 —	9 2 78 30 6	<i>javiana</i> <i>litchfield</i> <i>livingstone</i> <i>manhattan</i> <i>miami</i>
1	1	10				1	— 11 — — 2	2	— 32 3 1 15	— 161 27 26 89	<i>mississippi</i> <i>montevideo</i> <i>muenchen</i> <i>newington</i> <i>newport</i>
	1	4				1	5 — — — 1	1	13 3 — 6 9	71 10 4 31 196	<i>oranienburg</i> <i>panama</i> <i>paratyphi B</i> <i>reading</i> <i>saint-paul</i>
2		1 8			1		— 1 1 — 9		11 4 34 2 15	96 37 122 75 154	<i>san-diego</i> <i>schwarzengrund</i> <i>senftenberg</i> <i>tennessee</i> <i>thompson</i>
8 1		4 1		1	1		6 — — 1	2	— 67 25 — 8	— 684 171 2 74	<i>typhi</i> <i>typhimurium</i> <i>typhimurium v cop</i> <i>weltevreden</i> <i>worthington</i>
14	7	52	1	6	2	15	76	18	538	3918	TOTAL
2	21	4	—	2	3	3	12	3	135	1065	ALL OTHER*
16	28	56	1	8	5	18	88	21	673	4983	TOTAL

TABLE IV - Continued

WILD ANIMALS AND BIRDS	REPTILES AND ENVIRONMENT	HUMAN DIETARY ITEMS						MISCELLANEOUS	TOTAL	CUMULATIVE TOTAL	SEROTYPE
		EGGS AND PRODUCTS	POULTRY	RED MEAT	DAIRY PRODUCTS	OTHER	SUBTOTAL				
	1 2				2		— 2 — 1		1 2 3 10 9	1 2 32 42 53	<i>abaetetuba</i> <i>alagbon</i> <i>albany</i> <i>binza</i> <i>cerro</i>
		1					— — — 1 —		2 12 12 3 2	10 29 64 92 3	<i>cholerae-suis</i> <i>drypool</i> <i>dublin</i> <i>eimsbuettel</i> <i>florida</i>
	1						— — — — 1		1 1 1 1 6	2 7 1 17 107	<i>gatow</i> <i>habana</i> <i>halmstad</i> <i>johannesburg</i> <i>kentucky</i>
2		1					1 — — — 1	1	3 1 1 1 11	8 1 2 71 18	<i>kottbus</i> <i>lomita</i> <i>manila</i> <i>minnesota</i> <i>new-brunswick</i>
	1 2						— — — — 2 2		5 4 2 4 2	6 8 4 27 4	<i>orion</i> <i>oslo</i> <i>poona</i> <i>pullorum</i> <i>saphra</i>
		1					1 — — — —	1	3 1 5 4 14	51 34 19 10 20	<i>siegburg</i> <i>simsbury</i> <i>thomasville</i> <i>typhi-suis</i> <i>urbana</i>
	13			1			1		1	1	<i>welikada</i>
2	20	4	—	1	3	3	11	3	128	992	TOTAL
—	1	—	—	1	—	—	1	—	7	73	NOT TYPED*
2	21	4	—	2	3	3	12	3	135	1065	TOTAL

