VD FACT SHEET - 1963

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service

Basic Statistics on the Venereal Disease Problem in the United States

VD FACT SHEET 1963

Twentieth Revision

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
Communicable Disease Center
Atlanta, Georgia 30333

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The VD Fact Sheet is intended as a handy source of basic statistics on the venereal diseases in the United States. In this booklet, public health specialists, students, physicians, and other persons interested in medical data will find venereal diseases measured by incidence and prevalence. The general public will find tables showing the costs of uncontrolled venereal disease and the frequency of psychoses and deaths from syphilis. While the results of case-finding are measured in terms of cases reported, the actual amount of case-finding effort is seen in the volume of diagnostic examinations and epidemiologic activity. As there is no agent for immunizing the population, finding and treating cases continues to be the only feasible means of controlling venereal disease.

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augusted; that mountage of occupant and accordance conserve occurringing his aptimum tall challenges.

Facts on these aspects of the venereal disease problem and program are presented in the text and tables which follow. The information is current as of the date of publication, and it supersedes any previously published data. Where no source is cited, the data presented are based on statistics collected by the Venereal Disease Program or upon estimates made by the Program. Where data are indicated as being for "fiscal years," the period runs from July 1 of the previous year through June 30 of the year indicated on the table. Rates per 100,000 population shown in this Fact Sheet are based on appropriate population estimates obtained from the Bureau of the Census.

Incidence

The incidence of syphilis is defined as the number of new cases occurring in a given area within a specified period of time, usually a year.

Since the symptoms of primary and secondary syphilis appear soon after the disease is acquired, the number of primary and secondary cases occurring in the population within a given period of time would be the same as the incidence of syphilis.

Cases of primary and secondary syphilis are reportable by law in all of the 50 States and the District of Columbia. In the fiscal year ending June 30, 1963, there were 22,045 cases reported to health departments by physicians and clinics in the United States. But the number of cases reported understates actual incidence for two reasons:

- 1. Not all cases are diagnosed, and a out betteger sessed to same in between our guibail
- seen in the volume of diagnostic examinations and epidemiclogic servity. As there is no agent for immunizing the population, finding and treating. betroper are seen becomes by No. 1.2.

For the past several years, published estimates of the incidence of syphilis have been about 60,000 cases a year. Reported cases of latent and late syphilis were the basis for estimating the number of cases occurring but neither diagnosed nor reported until the later stage of the disease.

In July 1962, the American Social Health Association, in cooperation with the American Medical Association, the National Medical Association, and the American Osteopathic Association sent a questionnaire to every private physician in the United States. One of the questions asked was "How many new cases of primary and secondary (infectious) syphilis did you treat between April 1 and June 30, 1962?"

One hundred and thirty-one thousand two hundred and forty-five responding physicians indicated they treated 13,930 cases of infectious syphilis during these three months (an estimate of 55,720 cases for the year 1962). These 55,720 cases plus 13,769 cases of infectious syphilis treated in 1962 by public clinics (not included in the survey) total an estimated 69,489 newly acquired cases of syphilis treated. Actually, 69,489 cases can be considered minimum incidence since it does not include cases treated by physicians who failed to respond to the survey nor cases occurring but not detected during the year. This estimate is presented only to show that the actual incidence of syphilis is much higher than reported new cases. In fact, if one considers that at least half of the cases occurring are not detected until the late or latent stages of disease, then the actual annual incidence of syphilis would be at least twice the estimated 69,489 cases treated in 1962.

Costs of Uncontrolled Syphilis

The statistics presented in Table 1 indicate the toll imposed by syphilis upon the manpower and economy of the country.

The estimate of man-years of disability for institutionalization of the syphilitic insane is based on the total number of patients in mental institutions and upon the proportion of those diagnosed as having syphilitic psychoses. Patients in state, county, private, and Veterans Administration hospitals for the permanent care of the insane are included.

The cost of maintenance is based upon the number of patients with syphilitic psychoses in tax supported institutions and upon the average per patient maintenance cost. The three percent of patients with syphilitic psychoses maintained in private institutions has not been included.

Disability attributed to cardiovascular syphilis and to locomotor ataxia is based on conservative estimates of the prevalence of these late manifestations of syphilis.

The loss of life expectancy indicates the loss of future years of life for persons dying of syphilis in 1961. It is based on the expected years of life remaining to persons of that age, race and sex. The loss of income indicates the probable earnings of these persons for the productive years of life lost to age 65. It is based on the average personal income for adults during 1961.

While disabilities and deaths from syphilis have been diminishing in recent years, costs and losses per case have been rising. As a result, total costs and income losses from syphilitic disabilities and deaths remain high compared to previous estimates.

On the basis of findings of research conducted in Macon County, Alabama, it has been estimated that the life expectancy of a Negro male between the ages of 25 and 60 years, infected with syphilis and receiving no appreciable treatment for his infection, is reduced by about 17 percent.*

* Farimetos based on most recent available data for years indicated.

^{*} Shafer, J.K.; Usilton, Lida J.; Gleeson, Geraldine A.: Untreated Syphilis in the Male Negro: A prospective study of the effect on life expectancy. Public Health Reports, 69:684-690, July 1954. Milbank Memorial Fund Quarterly, 32:262-274, July 1954.

ESTIMATED ANNUAL COSTS OF UNCONTROLLED SYPHILIS*

LONG AND	THE TOWER OF SHEET
MAN-YEARS OF SYPHILIS DISABILITY PER YEAR	
Institutionalization for syphilitic insanity (1960)	24,000
Disability from cardiovascular syphilis, including aneurysm (1961)	
Disability from locomotor ataxia (1961)	700
Disability from syphilitic blindness (1961)	
ECONOMIC COSTS OF SYPHILITIC PSYCHOSES AND SYPHILITIC BLINDNESS PER YEAR	
Maintenance of patients with syphilitic psychoses (1960)	\$49,366,000
Maintenance of syphilitic blind (1961)	\$5,300,000
LOSS OF LIFE EXPECTANCY FROM DEATHS DUE TO SYPHILIS IN MAN-YEARS (1961)	t Amadele Markons Sesoi ban
White males 30, ince 30, establish encivary of beragmos data niemer adiab bun es	17,867
the pasts of findings of research conducted in Marcon Conorv. Alabems, it has been White females	8,559
Non-white males	10,286
Non-white females	
의 물병하면 되었다. 특성 프레스트웨어 전문에 발표하면 되었다. 그리고	43,133
LOSS OF INCOME TO AGE 65 AT 1961 ADULT INCOME RATE	

^{.*} Estimates based on most recent available data for years indicated.

Reported Mortality and Insanity Due to Syphilis

Mortality statistics are compiled by the National Vital Statistics Division from duplicates of death certificates filed with State or local registrars. Mortality rates for syphilis are calculated by dividing the number of deaths in a given year by the population for that year and multiplying by 100,000 (rate per 100,000 population). The infant mortality rate for syphilis for a given year is obtained by dividing the deaths due to syphilis among children under one year of age by the number of live births in the year multiplied by 10,000(rate per 10,000 live births).

Since deaths from syphilis represent case-finding and treatment failures, mortality due to syphilis may be considered an inverse measure of the success of the syphilis control program.

It has been the practice since 1900 to revise the International Lists of Causes of Death about every 10 years to keep abreast of medical progress. These revisions have at times affected the continuity of syphilis mortality statistics. "The Sixth Revision of the International Lists of Causes of Death," which became effective in 1949, reduced reported syphilis deaths by about 26 percent. In "The Seventh Revision of the International Lists of Causes of Death," which was published in 1955 and became effective beginning January 1958, an increase of 3.3 percent for syphilis and its sequelae occurred by reason of a change in interpretation of "aneurysm of the aorta" reported in a sequence involving arteriosclerosis of sites other than the aorta. It should be noted, however, that the interpretation of such sequences reverted in 1959 to that used with the Sixth Revision. Mortality rates given in this FACT SHEET have been adjusted to the basis of the Seventh Revision. No adjustment was made for infant mortality since it was affected very little by changes in the Seventh Revision.

Insanity due to syphilis is measured by the rate of first admissions to mental hospitals because of syphilis. Excluded are admissions to psychopathic hospitals which provide only temporary care, and admissions to Veterans Administration facilities. The number of admissions is obtained from "Patients in Mental Institutions" published by the National Institute of Mental Health. Since only first admissions are included in the rate, the figures over a period of years represent a measure of the trend of incidence of syphilitic insanity.

Data on mortality and insanity due to syphilis are presented in Table 2.

TABLE 2

REPORTED MORTALITY AND INSANITY DUE TO SYPHILIS UNITED STATES SELECTED YEARS 1940-1963

Calendar Year		yphilis Morta ates per 100, Population	000	Syphilis	Mortality Du s, Rates per Live Births		First Admissions to Mental Hospitals Due to Syphilis Rates per 100,000 Population**		
	Total	White	Nonwhite	Total	White	Nonwhite	Total		
1940	10.7	7.3	40.2	5.30	2.50	25.20	6.1		
1945	7.9	5.6	27.3	2.50	1.07	12.59	a 5.5		
1950	5.0	3.7	16.1	.57	.24	2.59	2.6		
1951	4.1	3.0	13.4	.34	.12	1.73	2.1		
1952	3.7	2.7	11.4	.24	.10	1.14	1.8		
1953	3.3	2.4	10.9	.14	.04	.77	1.50		
1954	3.0	2.3	9.2	- 11	.03	.54	1.35		
1955	2.4	1.7	7.9	.08	.03	- 0.41	1.0		
1956	2.3	1.7	7.1	.06	.02	5 8.0.31	1 2 2 2 3 3 3 3		
1957	2.2	1.7	6.9	.06	.05	.16	2		
1958	2.0	1.5	6.4	.07	.02	.36	2 2 3 5 6		
1959	1.7	1.3	4.9	.06	.02	.23	E -42 of		
1960	1.6	1.3	4.5	.07	.04	.24	5 1 2 14 min		
1961	1.6	1.2	4.5	.05	.02	5 ² ³ .18 ⁵			
1962***	1.5	1.2	3.7	.02					
1963***	1.7	70 - 10		3 5 - 18		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8 6885 7		

^{*} Seventh Revision, International Lists of Causes of Death; see Mortality, Page 5 for explanation

Source: Mortality and Natality Data, National Vital Statistics Division; First Admissions to Mental Hospitals, National Institute of Mental Health; Rates based on population estimates of the Bureau of the Census

^{**} Does not include admissions to Veterans Administration and psychopathic hospitals; rate based on population of area reporting

^{***} Estimated

Reported Cases of Venereal Disease

All states require that syphilis and gonorrhea cases coming to medical attention be reported to the state or local health officer. Other venereal diseases are also reportable in most states. Quarterly, each state submits to the Public Health Service a summary of the cases reported to it. All cases not previously reported, regardless of duration, are to be included in the report. The reported morbidity, as reported cases are sometimes called, indicates the volume of successful casefinding.

The trend of reported cases of early syphilis (or reported case rates) over a period of years may be indicative of incidence trends if no significant changes in case-finding effort have occurred. Reported cases of syphilis in the later stages may be considered as an indication of past case-finding failure as well as present success. Trends in reported cases must be interpreted with caution since changes in case-finding effort are reflected in morbidity data just as much as changes in incidence and prevalence.

Reported cases of venereal diseases are shown in Table 3 through Table 7. During the years 1955-1958, reported cases of primary and secondary syphilis, the recently acquired infectious stage of the disease, remained fairly level at about 6,500 cases per year. However, in fiscal year 1959, reported cases of infectious syphilis began to increase and continued to increase at an accelerated rate through 1961. In 1962 and 1963, the increases were not nearly as great as in the 3 preceding years. These increases are believed to be due to a combination of better reporting by private physicians, to better casefinding, and to a real increase in incidence in most areas.

Health Department Case-Finding Activities

368,020

The correct interpretation of case-finding success depends upon a knowledge of the volume of case-finding effort. Table 8 shows the volume of case-finding effort in public clinics and cases of venereal disease found through these efforts. Total activity is indicated by the number of diagnostic examinations performed and investigations completed. The section of contact investigation indices indicate the volume of contacts named and the success in finding cases of syphilis on a per patient basis. It should be noted that at least one infected contact should be identified for each case of primary or secondary syphilis.

128,450

NOTE: Elegibning in 1933, all States are included to thoroporting area.

Reparted Cases of Verstalar Disease

CASES OF SYPHILIS AND GONORRHEA REPORTED TO THE PUBLIC HEALTH SERVICE BY STATE HEALTH DEPARTMENTS, AND RATES PER 100,000 POPULATION All Reporting Areas in United States Selected Years 19 19-1963

Fiscal	inaibai balla S Y F	PHILIS (ALL STAGES)	vsibida GON	ORRHEA
Year	Cases	Rates per 100,000	Cases	Rates per 100,00
19 19 50 5 1	100,466	mones so) al 13.2, a visus lo	131,193	o boot of 147.8
1920	142,869	ede famoilin145.3 ll abuert so	The second secon	oibal ed yea175.4
1921	184,090	d yam soge172.3 sl ods at ell	189,927	177.76 Reporter
1925	201,692	abner 181.2 Income	166,208	aniball-sea 149.3
1930	213,309	185.4	155,875	oliveo di w 135.5
1935	255,856	205.6	162,763	130.8
1936	267,717	212.6	163,465	129.8
1937	336,258	264.3	182,460	143.4
1938	480,140	372.0	198,439	153.8
1939	478,738	367.1	182,314	139.8
1940	472,900	359.7	175,841	133.8
1941	485,560	368.2	193,468	146.7
1942	479,601	363.4 of application	212,403	160.9
1943	575,593	447.0	275,070	213.6
1944	467,755	367.9	300,676	236.5
1945	359,114	282.3	287, 18 1	225.8
1946	363,647	271.7	368,020	275.0
1947	372,963	264.6	400,639	284.2
1948	338,141	234.7	363,014	252.0
1949	288,736	197.3	331,661	226.7
1950	229,723	154.2	303,992	204.0
1951	198,640	131.8	270,459	179.5
1952	168,734	110.8	245,633	161.3
1953	156,099	100.8	243,857	157.4
1954	137,876	87.5	239,661	152.0
1955	122,075	brathamas 76.0 conto amula	239,787	149.2
1056	126,219	ample to tail 77.1c ad bloods	233,333	142.4
1957	130,552	78.3	216,476	129.8
1958	116,630	68.5	220,191	129.3
1959	119,981	69.3	237,318	137.0
1960	120,249	68.0	246,697	139.6
1961	125,262	69.7	265,665	147.8
1962	124,188	68.1	260,468	142.9
1963	128,450	69.3	270,076	145.7

NOTE: Beginning in 1939, all States are included in the reporting area. Military cases excluded after 1940.

TABLE 4

CASES OF VENEREAL DISEASE REPORTED TO THE PUBLIC HEALTH SERVICE
FISCAL YEARS 1954-1963
(Known Military Cases Are Excluded)

	and Vene	TS	YPHIL	IS Fema	ic Total	GONORRHE	A OTHER	VENEREAL I	DISEASES
	Syphilis (All Stages)*	Primary and Secondary	Early Latent	Late and Late Latent	Congenital	36.7 Sp 6/04 - 0	Chancroid	Granuloma Inguinale	Lympho- Granuloma Venereum
				8.1 '6U i	nited States	40.7	3377		312.9
1954	137,876	7,688	24,999	93,601	7,234	239,661	3,294	607	917
1955	122,075	6,516	21,553	84,741	5,515	239,787	2,863	584	875
1956	126,219	6,757	20,014	89,851	5,535	233,333	2,322	419	602
1957	130,552	6,251	19,046	96,856	5,452	216,476	1,860	348	449
1958	116,630	6,661	16,698	85,974	4,839	220,191	1,574	332	436
1959	119,981	8,178	17,592	86,776	5,215	237,318	1,604	282	485
1960	120,249	12,47 1	16,829	84,195	4,593	246,697	1,555	273	800
1961	125,262	18,781	19, 146	80,942	4,388	265,665	1,595	296	842
1962	124, 188	20,084	19,924	78,264	4,085	260,468	1,401	203	635
1963	128,450	22,045	18,685	81,736	4,140	270,076	1,242	196	589
	Late Latent 😤	CES CD		United Sta	tes and Territo	ories		188	
1954	141,838	7,898	25,834	96,017	7,649	245,077	3,348	613	925
1955	124,925	6,698	22,232	86,392	5,779	244,363	2,937	590	883
1956	128,645	6,885	20,591	91,252	5,702	238,568	2,366	420	611
1957	132,510	6,323	19,492	98,135	5,597	220,614	1,887	352	463
1958	118,404	6,7.46	17,125	87,071	4,978	224,268	1,607	333	458
1959	121,598	8,285	17,998	87,725	5,345	241,004	1,673	282	504
1960	121,474	12,577	17,206	84,845	4,672	249,719	1,587	276	805
1961	126,534	19,075	19,666	81,336	4,433	268,570	1,627	297	850
1962	125,583	20,540	20,496	78,606	4,104	263,527	1,420	204	656
1963	130,042	22,784	19,078	82,162	4,166	273,058	1,274	196	595

^{*} Includes "Stage of Syphilis Not Stated."

TABLE 5

REPORTED SYPHILIS CASE RATE PER 100,000 POPULATION FISCAL YEARS 1941 - 1963

Fiscal Year	Syphilis (All Stages)*	Primary and Secondary	Primary, Secondary and Early Latent	Late and Late Latent	OTHER	Congenital
1980		Unite	d States Civilians	165.75		185.
1941	368.2	51.7 %	2126 2134.49 12 d	153.9	COMOBBHE	13.4
1942	363.4	57.1	145.1	153.1	18	12.8
1943	447.0	63.8	179.8	195.7	100	12.6
1944	367.9	61.7	158.5	159.6	181	10.7
1945	282.3	60.5	140.5	111.8		9.7
1946	271.7	70.9	151.6	93.6		9.0
1947	264.6	75.6	152.0	86.5		8.7
1948	234.7	55.9	123.8	86.1		9.2
1949	197.3	37.1	94.7	83.3		9.8
1950	154.2	21.6	65.1	75.5		9.0
1951	131.8	12.1	271.7 46.8	71.1		8.5
1952	110.8	7.9	33.1	66.9		6.1
1953	100.8	6.2	27.00	64.7		5.2
1954	87.5	4.9	20.8	59.4	100	4.6
1955	76.0	4.1	154.2 17.5	52.7	121	3.4
1956	77.1	4.1	16.3	54.8		3.4
1957	78.3	3.8	15.2	58.1	121	3.3
1958	68.5	3.9	13.7	50.5		2.8
1959	69.3	4.7	14.9	50.1	101	3.0
1960	68.0	0 0 7.1 or m	16.6	47.6		2.6
1961	69.7	10.4	21.1	45.0		2.4
1962	68.1	11.0	21.9	42.9		2.2
1963	69.3	11.9	22.0	44.1		2.2
* Inclu	des "Stage of Syp	hilis Not Stated.	. 69.3	207 118		187.0
g 11090	acco bace of byp	Maria Hot Diated.	1860 - 11 B	235 A N		189.6

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TABLE 6 REPORTED VENEREAL DISEASE CASE RATES PER 100,000 POPULATION BY COLOR AND SEX UNITED STATES CIVILIANS
Fiscal Years 1959 - 1963

Disease, Stage		artika di Bir (Birlia)	TOTAL	e dagarandan 1931 1931 - San	Plintin Milyd Ymen - A	WHITE	THE MALLETT	Alta N	ONWHIT	E
and Year	or 1 .0 . 1	Total	Male	Female	Total	Male	Female	Total	Male	Female
Syphilis	1959	69.3	75.7	63.2	30.7	36.7	24.9	377.3	390.1	365.3
(All	1960	68.0	76.3	60.6	32.3	39.1	25.8	352.0	371.1	334.0
Stages)*	1961	69.7	79.1	60.5	33.6	40.7	26.6	349.6	380.6	
idenosti e paracupa	1962	68.1	77.1	59.5	32.9	40.0	26.0	349.6	367.5	319.9
12 2 2 2 2 2 2	1963	69.3	78.1	60.9	33.9	40.7	27.3	337.9	364.7	314.9 312.9
Primary and	1959	4.7	6.6	2.9	2.0	3.3	0.7	26.6	33.4	20.2
Secondary	1960	7.1	10.1	4.2	3.1	5.3	1.0	38.7	48.0	29.9
Syphilis	1961	10.4	14.5	6.5	4.0	6.6	1.0	60.6	76.2	45.7
ם אים מס אים אים אים מס אים מ	1962	11.0	14.8	7.4	3.8	6.3	1.4	66.7	81.5	52.9
laberarahin ka	1963	11.9	15.6	8.4	3.8	6.0	1.6	73.7	88.9	59.4
Early	1959	10.2	10.1	10.2	3.5	4.1	3.1	62.9		
Latent	1960	9.5	10.0	9.2	3.4	4.1	2.9	57.9	58.7 56.0	66.9
Syphilis	1961	10.7	11.6	9.7	4.0	5.0	2.9	62.6		59.6
	1962	10.9	12.1	9.8	4.2	5.4	2.9	63.1	64.0 63.8	61.1 62.4
	1963	10.1	11.0	9.1	3.4	5.0	2.8	57.4	58.0	56.8
Late and	1959	50.1	55.2	45.2	23.0	27.4	18.7	266.4	279.1	254.6
Late Latent	1960	47.6	53.0	42.8	23.8	28.0	19.7	237.4	251.5	224.0
Syphilis	1961	45.0	50.0	40.2	23.7	27.5	19.9	210.4	226.2	195.3
	1962	42.9	47.5	38.5	23.1	26.9	19.5	196.1	209.6	183.4
	1963	44.1	48.8	39.6	24.9	28.2	20.8	192.9	206.5	180.3
Congenital	1959	3.0	2.3	3.7	1.4	1.0	1.8	15.8	12.4	19.1
Syphilis	1960	2.6	1.9	3.3	1.3	0.9	1.7	12.7	10.0	15.4
	1961	2.4	1.9	3.0	1.3	0.9	1.7	11.4	9.5	13.2
The State committee	1962	2.2	1.7	2.8	1.2	0.8	1.6	10.3	8.4	12.0
日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本	1963	2.2	1.7	2.8	1.2	0.9	1.5	10.2	7.8	12.5
Gonorrhea	1959	137.1	194.6	82.3	33.3	48.1	19.1	964.2	1373.7	580.8
	1960	139.6	203.2	79.9	37.6	55.7	20.2	948.7	1371.8	549.0
	1961	147.8	212.8	84.7	42.5	61.6	23.8	964.3	1400.2	549.9
	1962	142.8	211.3	76.8	43.0	63.1	23.6	914.6	1374.4	482.5
	1963	145.7	220.7	74.5	46.0	69.3	23.9	901.1	1380.4	454.0

^{*} Includes "Stage of Syphilis Not Stated."

TABLE 7

REPORTED VENEREAL DISEASE CASE RATES PER 100,000 POPULATION UNITED STATES CIVILIANS
FISCAL YEAR 1963

0.		Syph	1115		Other	
State		ll ges	Primary & Secondary	Gonorrhea	Venereal Diseases	
Alabama		11.0	18.4	119.5	2.0	1960
Alaska	4	5.2	2.4	311.3	18 F 1 1 1	
Arizona	A LOLLIS	33.5	11.7	170.9	3.3	
Arkansas		01.4	13.8	380.8	1.2	
California		77.5	11.8	171.4	.5	
Colorado		31.5	2.9	115.5	.2	
Connecticut		30.2	6.9	71.1	.4	
Delaware		71.7	9.1	182.9	2.2	
District of Columbia		52.8				
Florida			92.3	1056.8	23.6	
레큐이닷컴 아무() [12] 이 [12] 아이에 아이들 ([2] [2]		21.6	32.6	167.3	3.2	
Georgia		30.6	25.3	249.8	10.4	
Hawaii		9.6	2.9	25.4	.3	
Idaho		2.3	.6	83.4	.3	
Illinois	(55.3	10.2	245.0	.1	
Indiana		30.1	1.8	68.9	· 1 .1	
Iowa	5 西 夏 春 日 『	29.3	1.9	47.0	.2	
Kansas	4	9.4	2.7	114.0	.4	
Kentucky		51.8	4.5	85.8	. E <u>1</u>	
Louisiana		30.5	23.3	175.5	3.6	
Maine		4.4	.7	21.5		
Maryland	6 16 16 16 16 T	93.9	16.5	171.3		
Massachusetts		28.6	5.3			
				60.6	.2	
Michigan		66.9	4.9	145.0	.9	
Minnesota	rankida ka 🚐	7.4	2.0	55.9	.1.	
Mississippi		29.0	11.5	242.2	2.3	
Missouri		38.9	4.9	184.5	1.1	
Montana	7.0	29.4	1.6	63.2	.1	
Nebraska		24.6	3.1	60.3	.2	
Nevada	11	5.4	20.9	179.8	.3	5
New Hampshire	onder d	15.4	1.6	23.6	4	
New Jersey	1 2 24 24 24 - 5	97.9	19.4	61.0	.4	2-4
New Mexico		58.1	10.3	123.9	.3	0
New York		38.0	23.7	146.6	.9	
North Carolina		78.8	19.8	167.3	1.7	
North Dakota	AG CONOX PER IN-	6.2	1.1	94.9		
Ohio	hallbo.	37.1	3.8		\$ to -	
Oklahoma				106.1	8 8 3	
그렇게 그 일반이 가득하다 사람들이 되었다. 그는 살아가고 있는 것 같다.		76.0	8.2	147.3	.1	
Oregon		31.4	2.7	77.4	.3	
Pennsylvania		39.1	8.6	57.1	.1	
Rhode Island	8 % 8 9 24	12.6	2.8	22.7		
South Carolina		35.1	29.9	357.7	1.9	
South Dakota		18.4	4.1	182.9		
Tennessee		10.6	10.8	233.5	1.3	
Texas		54.2	16.1	253.5	1.8	
Utah		13.0	1.8	48.6	<u></u>	
Vermont		2.3	.8	30.3	$\overline{\Gamma}$	
Virginia		2.3	9.1	170.0	.9 .2	
Washington					.9	
		2.8	3.1	93.1	.2	
West Virginia		71.0	2.8	52.4	EF H	
Wisconsin		17.7	1.1	32.0	E 1 3	
Wyoming		17.5	2.2	35.4	.3	

12

TABLE 8
HEALTH DEPARTMENT CASE-FINDING ACTIVITIES, UNITED STATES
Fiscal Years 1958 - 1963

Clinic and Epidemiologic Data	1958	1959	1960	1961	1962	1963
Diagnostic examinations in public clinics	1,925,552	1,911,557	1,840,464	1,785,187	N.A.	N.Ą.
Percent of examinations in which one or more venereal diseases were found	13.4	13.1	13.3	14.6	N.A.	N.A.
Number of contact investigations completed	212,896	223,755	222,052	225,541	186,784	179,715
Number of other suspect investigations completed	186,304	208,068	227,523	239,835	234,305	243,257
Contact investigation indices:						
Approximate number of contacts obtained from each primary and secondary syphilis patient (contact index)	3.66	3.95	3.95	4.10	4.03	3.98
Approximate number of syphilis infections identified in the contacts of each primary and secondary patient (epidemiologic index)	. 91	1.07	1.07	1.22	1.24	1.17
Approximate number of syphilis infections brought to treatment in the contacts of each primary and secondary patient (brought-to-treatment index)	.49	.54	.52	.55	.52	.47
Approximate number of primary and secondary syphilis infections brought to treatment in the contacts of each primary and secondary patient				112 29	0.00	
(lesion-to-lesion index)	.29	.30	.31	.33	.32	.30

TABLE 9

PRIMARY AND SECONDARY SYPHILIS UNITED STATES

AGE-SPECIFIC CASE RATES* BY AGE GROUPS, RACE AND SEX Calendar Years 1956, 1959, 1960, 1961, 1962

			WHITE		ı	ONWHITE		Vende	TOTAL	
AGE	YEAR	Male	Female	Total	Male	Female	Total	Male	Female	Total**
	1956	.0	.0	.0	.4	1.8	1.1	8.1	.3	.2
	1959	.1	.1	.1	.7	2.2	1.4	.2	.4	.3
0 - 14	1960	.0	.0	.0	.8	2.9	1.8	.1	.4	.3
	1961	.0	.0	.0	1.7	4.0	2.9	.3	.6	.4
	1962	.0	.1 19	.0	1.7	4.3	3.0	.3	.7	.5
				76		AT 01		15		
	1956	2.4	2.7	2.6	56.9	64.6	60.9	9.4	10.7	10.1
	1959	4.2	2.3	3.2	82.4	87.8	85.1	13.8	12.8	13.3
15 - 19	1960	5.0	3.5	4.2	130.4	130.6	130.5	20.4	19.2	19.8
	1961	6.5	4.0	5.2	153.6	164.0	158.9	24.7	23.8	24.2
	1962	5.6	3.8	4.7	158.4	180.1	169.5	24.3	25.4	24.8
	1956	10.8	2.9	6.4	136.6	75.4	103.0	27.0	12.0	18.6
	1959	18.3	3.4	10.2	190.8	99.6	142.3	41.3	15.6	27.3
20 - 24	1960	25.8	5.3	14.7	355.6	185.0	262.1	67.0	28.2	45.9
	1961	26.5	6.9	15.9	396.6	231.8	307.1	73.2	35.5	52.8
	1962	24.1	6.0	14.3	435.7	271.6	346.1	75.5	39.2	55.8
	1956	8.6	2.0	5.2	83.6	42.8	61.2	16.6	6.8	11.5
	1959	15.6	2.0	8.5	132.6	56.9	92.2	28.9	8.7	18.4
25 - 29	1960	25.9	3.3	14.2	229.1	106.9	162.1	49.3	16.4	32.1
	1961	26.0	4.2	14.7	306.6	139.7	215.2	58.3	21.4	39.0
	1962	22.7	4.2	13.0	316.5	168.4	235.7	57.0	25.0	40.2
	1956	4.5	1.1	2.8	40.9	22.5	31.1	8.2	3.4	5.7
	1959	9.2	1.3	5.1	68.9	23.4	44.4	15.3	3.7	9.3
30 - 39	1960	15.9	1.7	8.5	106.8	42.6	72.2	25.6	6.4	15.6
	1961	16.7	2.1	9.2	143.6	57.1	96.8	30.3	8.6	19.0
	1962	14.3	2.1	8.0	160.6	66.4	109.5	30.2	9.7	19.5
	1956	2.2	4.6	1.4	16.4	7.4	11.7	3.6	1.3	2.4
	1959	3.1	. 6	2.1.8	20.3	7.9	13.7	4.8	1.3	3.0
40 - 49	1960	5.1	1.0	3.0	33.3	12.5	22.4	7.9	2.1	4.9
	1961	6.2	1.5	3.8	51.2	18.3	33.9	10.6	3.3	6.9
	1962	5.9	5 1.1	3.4	56.5	23.4	39.1	11.0	3.4	7.1
	1956	8.	.2	.5	5.6	2.5	4.0	1.2	-4	.7
	1959	1.0	1 3 1	.6	6.5	2.4	4.4	1.5	.4	.9
50+	1960	1.3	.2	.7	8.0	3.0	5.4	1.9	.4	1.1
	1961	1.6	4	.9	11.3	4.1	7.6	2.4	.7	1.5
	1962	1.9	# H.3 = 8	1.0	14.6	4.7	9.5	3.0	.6	1.8
	1956	2.4	8 11 18	1.6	26.7	18.6	22.5	5.0	2.8	3.9
	1959	4.1	.8	2.4	39.1	22.8	30.7	8.0	3.3	5.6
Total	1960	6.3	1.2	3.7	63.4	38.3	50.4	12.8	5.5	9.1
	1961	6.7	1.5	4.1	79.1	49.0	63.6	15.0	7.1	11.0
	1962	6.0	1.4	3.7	85.2	56.9	70.6	15.2	7.9	11.5

^{*} Cases Per 100,000 Population. Rates for 1956, 1959, 1961, and 1962 are based on population estimates of the Bureau of the Census. Rates for 1960 are based on United States Census of Population, 1960.

** Includes race and sex not stated.

TABLE 10

GONORRHEA UNITED STATES

AGE-SPECIFIC CASE RATES* BY AGE GROUPS, RACE AND SEX Calendar Years 1956, 1959, 1960, 1961, 1962

		acalie e	WHITE		l dage N	NONWHITE			OTAL	l Asilv
AGE	YEAR	Male	Female	Total	Male	Female	Total	Male	Female	Total*
	1956	.5	3.2	1.8	19.5	66.9	43.0	3.0	11.7	7.2
	1959	.5	3.0	1.8	22.8	59.5	41.1	3.5	10.9	7.2
0 - 14	1960	.9	3.2	2.1	33.7	66.5	50.1	5.4	12.1	8.7
	1961	.8	3.8	2.3	23.8	52.0	37.9	3.9	10.7	7.3
	1962	.6·	2.9	1.7	25.0	47.7	36.3	4.0	9.4	6.7
	1956	83.3	69.0	75.9	2966.2	2360.6	2653.0	455.3	363.6	407.8
	1959	92.3	79.3	85.7	3142.3	2181.4	2652.5	466.2	338.5	401.3
15 - 19	1960	109.2	88.5	98.7	3126.8	2178.3	2642.2	480.9	347.1	412.7
	1961	106.5	95.4	100.8	3107.7	1849.1	2465.0	476.8	312.0	392.7
	1962	103.5	86.6	94.9	2890.0	1631.3	2245.7	444.1	275.8	358.0
	1956	266.8	76.9	160.6	7934.6	2745.8	5080.5	1254.9	410.4	783.3
	1959	324.7	94.9	199.3	7418.3	2500.9	4806.8	1271.6	400.2	797.8
20 - 24	1960	370.8	112.6	230.5	8237.9	2716.3	5211.7	1354.4	443.7	859.2
general Hi	1961	392.1	120.8	245.4	8117.7	2540.9	5089.5	1365.8	428.2	858.6
	1962	407.7	127.5	255.2	8009.2	2396.5	4949.3	1357.3	411.2	842.3
5C	1956	160.8	41.3	98.6	5169.1	1395.1	3102.9	698.1	201.4	438.3
	1959	187.2	48.2	115.2	4793.0	1363.5	2958.8	713.2	207.9	450.3
25- 29	1960	225.0	51.3	134.7	5047.4	1364.4	3030.1	779.1	217.8	485.5
le pe	1961	241.0	59.1	146.5	5314.1	1361.1	3149.4	823.6	224.3	510.3
411		260.8	64.8	158.5	5186.3	1283.0	3056.4	835.5	219.5	512.3
	1956	72.0	20.5	45.3	2119.0	535.1	1270.2	277.0	75.4	172.1
	1959	87.5	20.9	53.0	2088.0	521.3	1242.3	291.9	76.3	179.8
30 - 39	1960	98.0	22.7	59.1	2112.9	520.7	1253.5	313.0	80.3	192.1
0,9	1961	106.9	22.8	63.5	2157.7	478.8	1249.1	326.8	76.2	196.7
	1962	109.4	25.5	65.9	2108.6	458.0	1213.4	326.8	76.8	196.6
	1956	24.9	8.5	16.5	454.8	135.5	287.0	66.6	21.5	43.5
	1959	29.9	8.8	19.0	538.8	132.3	321.9	78.2	21.4	49.0
40 - 49	1960	33.2	9.1	20.9	541.2	135.9	329.1	83.6	22.2	52.1
10 - 45	1961	37.6	9.4	23.2	569.6	124.2	335.8	90.4	21.4	54.9
	1962	38.1	8.8	23.1	590.2	125.0	344.9	92.9	20.9	55.8
	1956	5.9	1.7	3.7	77.5	30,5	53.5	11.7	3.9	7.6
	1959	7.0	1.5	4.1	93.1	22.2	56.4	14.1	3.1	8.3
50+	1960	6.7	1.8	4.2	92.5	22.3	56.3	14.2	3.6	8.6
	1961	9.0	2.0	5.3	101.9	27.3	63.3	17.2	4.1	10.3
S Bob	1961	8.7	1.7	5.0	97.3	28.8	61.7	16.5	4.0	9.9
	1956	44.6	17.5	30.7	1410.3	600.6	991.6	192.6	81.9	135.9
100	1950	52.5	19.6	35.7	1366.8	544.3	942.5	199.1	79.1	137.6
Total	1960	59.8	21.9	40.4	1381.9	554.9	954.0	210.2	83.6	145.3
- otal	1960	63.8	23.6	43.2	1388.7	502.0	930.1	215.7	79.4	145.8
	1961	65.9	24.1	44.4	1349.7	468.8	893.4	214.5	76.4	143.5

^{*} Cases Per 100,000 Population. Rates for 1956, 1959, 1961, and 1962 are based on population estimates of the Bureau of the Census. Rates for 1960 are based on United States Census of Population, 1960.

Treatment of

^{**} Includes race and sex not stated.

TABLE 11

REPORTED CASES OF CONGENITAL SYPHILIS, BY AGE UNITED STATES (EXCLUDING TERRITORIES)

Fiscal Years 1960 - 1963

## ### ### ### ### ### ###############	18888	1960	2 8 8 9 19	961	1 2 2 3 19	62	1963		
Age Group	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
0 - 1 Year	132	4.7	218	7.9	219	8.1	367	9.8	
1 - 4 Years	52	1.9	44	1.6	38	1.4	52	1.4	
5 - 9 Years	28	1.0	18	. 7	31	1.1	42	1.1	
10 Years and Over	2,570	92.4	2,481	89.8	2,427	89.4	3,274	87.7	
Total, Known Age Unknown Age	2,782 1,811	100.0	2,761 1,627	100.0	2,715 1,370	100.0	3,735 434	100.0	
GRAND TOTAL	4,593	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,388	130 8 133 8 113 8 113 8 10 9 10 9	4,085	600060	4,169		
ow reserv	90 9-1-1-10 N		Perere	130.8 133.6 133.6 133.6 113.6 113.6	2 - 0 0 -	60000m	4	23 41	

CASES UNDER 1 YEAR OF AGE

Case rates of congenital syphilis under 1 year of age per 10,000 live births were estimated in fiscal year 1960 to be 0.5, in 1961 to be 0.8, in 1962 to be 0.8, and in 1963 to be 0.9.

INFANT MORTALITY DUE TO SYPHILIS - See Table 2

Treatment of Syphilis

eren Congenital Syphilis was also maked and the betreekees where evitare goes A

Recommended treatment for early congenital syphilis (less than 2 years) consists of aqueous procaine penicillin G in total dosage of 100,000 μ/kg . in 10 equally divided daily doses. Late congenital syphilis is treated with the same schedules as for comparable manifestations of acquired syphilis.

in the United States designed and that regicility to the thost edicative treatment yet known

Neurosyphilis

za horiza d

The earlier penicillin therapy is instituted for congenital syphilis, the more satisfactory the results.

Residence of the following the first principalities were treated for parents with penicillies only 60 percentual whom received a minimum of 6,000,000 units. Parents was diagnosed severe

unchanged, and only 13 percent had progressed or died from perceis. Progression or death from

in 330, moderately severe in 141, and mild in 158. Five years sites trailing Syphilas boys with severe psychoses were in receision as showed significant amprovement, 45 percent remained

Benzathine penicillin G and procaine penicillin G in oil with 2-percent aluminum monostearate PAM are the most widely used penicillin preparations for the treatment of early syphilis. Since benzathine penicillin G maintains a detectable blood level for a much longer period of time than PAM, a smaller total dosage is required for satisfactory results. The recommended schedules are 2,400,000 units of benzathine penicillin G administered in a single session (1,200,000 units in each buttock) or 4,800,000 units of PAM, 2,400,000 units at first session, and subsequent injections of 1,200,000 units given at 2- or 3-day intervals. If aqueous procaine penicillin G is used, 600,000 units should be administered daily for 8 days to total 4,800,000 units.

For the patient who is sensitive to penicillin, erythromycin or tetracycline is recommended for the treatment of syphilis. Of these two, only erythromycin (oral) has been clinically evaluated by the Public Health Service in the treatment of early syphilis. In order to establish a minimum dosage requirement, the initial schedule consisted of 10 grams covering a period of 8 to 10 days. Since this dosage proved inadequate (table 12), the schedule was increased to 15 grams, 1.5 grams a day for 10 days, and later to 20 grams in 10 days. The cumulative rate of failures plus reinfections at the 12th month of post treatment observation was 15.4 percent for the 15-gram schedule and 14.8 percent for the 20-gram schedule. Since there is no apparent difference between the two schedules, the combined results are shown in table 13.

Although it is impossible to separate accurately relapses from reinfections, the higher retreatment rates in the primary stages than in the secondary on these higher dosage schedules, substantiate the opinions of the clinicians that the majority of cases requiring additional treatment were reinfections rather than treatment failures. It is doubtful, however, if any oral therapy covering a period of days, regardless of dosage, will give results which equal those obtained with injectable repository preparations since most venereal disease clinic patients are too irresponsible to follow a prescribed schedule.

Neurosyphilis

A cooperative study conducted by the Public Health Service and leading neurosyphilologists in the United States has demonstrated that penicillin is the most effective treatment yet known for neurosyphilis.

Recommedded treatment for early congenital syphilis (less than 2 years) consists of

Trentment of Syphilis. R p.

Asymptomatic Neurosyphilis — Among 765 patients with asymptomatic neurosyphilis, approximately 75 percent of whom were treated with a minimum of 4,800,000 units of penicillin, only one bona fide progression to symptomatic neurosyphilis was observed; 11 other patients exhibited minor neurologic changes. In contrast, among 467 patients treated with metal chemotherapy, 29 progressed to symptomatic neurosyphilis and an additional 15 showed minor neurologic changes.

Paresis — Six hundred and twenty-nine patients were treated for paresis with penicillin only, 60 percent of whom received a minimum of 6,000,000 units. Paresis was diagnosed severe in 330, moderately severe in 141, and mild in 158. Five years after treatment 42 percent of those with severe psychoses were in remission or showed significant improvement, 45 percent remained unchanged, and only 13 percent had progressed or died from paresis. Progression or death from paresis occurred in 7.0 percent of those with moderately severe psychosis and in less than one percent of those with mild psychosis. Further proof of the effectiveness of penicillin is the fact that among those who survived, one-third of those who had been institutionalized, and two-thirds of those who had been unable to work at time of treatment, were gainfully employed 5 years later.

The total recommended dosage of penicillin for both symptomatic and asymptomatic neurosyphilis is 6,000,000 to 9,000,000 units. Any benefit from more than 10,000,000 units is doubtful and has not been demonstrated. Treatment schedules are as follows:

Benzathine penicillin G - 3,000,000 units at 7-day intervals.

PAM - 1,200,000 units at 3-day intervals.

Aqueous procaine penicillin G - 600,000 units daily.

Syphilis in Pregnancy affat) ataupabani bayan agasab a di adai? ayab 01 at 8

-leve vilacially eval-

Congenital syphilis is completely preventable. Adequate treatment of the mother during the first 18 weeks of gestation prevents infection of the baby; adequate treatment after the 18th week cures the baby in utero.

Although if is impossible to separate accurately relapses from reinfections, the higher

failures plus reinfections at the 12th mouth of post treatment observation was 15.4 percent for

minimum dosage requirement; the initial schedule consisted of 10 grams covering a period of

In two studies, comprising 528 infants born to treated syphilitic mothers, approximately 98 percent of the children were nonsyphilitic. The percentage varied slightly by stage of mother's syphilis during pregnancy.

In the absence of relapse or reinfection a woman treated with penicillin for syphilis will not require further treatment in the event of pregnancy.

covering a period of days, regardless of desage, will gave results which equal those obtained

TABLE 12

RESULTS OF PROPIONYL ERYTHROMYCIN IN THE TREATMENT OF EARLY SYPHILIS

(CASES WITH NO HISTORY OF SYPHILIS OR TREATMENT) SCHEDULE: 10 gms. total in 8 to 10 days

Months	Cases	CUMU	LATIVE PERC	All Other Cases		
Observed	Observed	Clinical or Serorelapse	Probable Reinfection	Total Retreated	Pe Seropos.	rcent Seroneg.
		Seroneg	ative Primary Sy	philis		
3.79	30	3.3	10.0	13.3	0.0	86.7
600	28	6.8	10.0	16.8	0.0	83.2
988	24	11.0	14.1	25.1	0.0	74.9
12	19	211.0	18.8	29.8	0.0	70.2
		Seropos	itive Primary Sy	philis		
3AST P	76	8.2.5	2.5	0.5.0	59.3	35.7
6.0	62	8.6	8.4	17.1	21.1	61.7
918	53	13.7	8.4	22.2	13.3	64.5
1200 10	o presg44ry rec	13.7	12.7	26.5	11.5	62.0
	istramusenlar	lajection of 1.25	condary Syphili	gir in templas,	1,800,000 uni	
3	78	2.5	0.01.3	3.8	96.3	0.0
60	62	23.4	2.9	26.3	56.1	17.6
901	51	32.5	2.9	35.4	41.1	23.5
120	40	34.7	10.3	45.0	35.0	20.0
	nerous antiblot	ics are effective	Total Syphilis	of generalies,		
3	184	2.6	3.2	5.9	65.3	28.8
6	151	14.6	6.3	20.8	31.7	47.5
900	128	21.1	1.87.1	28.1	21.9	50.0
1288	102	21.9	12.7	34.6	18.6	46.8

TABLE 13

RESULTS OF PROPIONYL ERYTHROMYCIN IN THE TREATMENT OF EARLY SYPHILIS

(CASES WITH NO HISTORY OF SYPHILIS OR TREATMENT)
SCHEDULE: 15 - 20 gms. total in 10 days

Months	Cases	CUMU	LATIVE PERCI	All Other Cases		
Observed	Observed		Probable Reinfection	Total Retreated		cent Seroneg
- Parago		Seroneg	ative Primary Sy	philis		
308	34 htm	o.o enty	2.9	2.9	0.0	97.1
6	29	0.0	9.6	9.6	0.0	90.4
9	23	0.0	13.9	13.9	0.0	86.1
12	16	0.0	13.9	13.9	0.0	86.1
	s, and easy 15 sourced in 7.0 s	Seropos	itive Primary Syj	ohilis		
3	90	0.0	ther 3.23.3 of the	3.3	72.2	24.4
6	75	7.6	4.5	12.2	41.2	46.6
9	57	9.2	6.1	15.3	22.9	61.8
12	39	9.2	8.7	17.9	12.8	69.3
		Se	condary Syphilis			
3	82	0.0	0.0	0.0	98.8	1.2
6	64	4.4	4.4	8.8	72.3	18.9
9	54	4.4	8.1	12.5	48.4	39.1
12	42	4.4	8.1	12.5	37.9	49.6
			Total Syphilis	ervole.		
8382	206	0.0	1.9	1.9	70.9	27.2
6	167	5.2	5.2	10.4	46.0	43.6
9	134	5.8	8.1	13.9	29.2	56.9
12	98	5.8	9.1	14.9	21.5	63.6

20

Gonorrhea

Diagnosis UNCY OF POSITIVE DELAYED RA. TENTER PERMITS

The fluorescent antibody technique in the diagnosis of gonorrhea has been used experimentally in selected venereal disease clinics throughout the country. Although there is variation by clinic, the over-all results (table 14) indicate that the delayed FA test is approximately 70 percent more effective than the culture in detecting the gonococcus. The site from which the specimen was obtained made little difference in the number of positive results to the delayed FA test (27.1 to 29.9 percent) whereas over 30 percent more positive cultures were obtained from cervical than from urethral or vaginal specimens.

The delayed FA test was positive in 79 percent of female contacts with clinical evidence of gonorrhea and in 59 percent of those who were asymptomatic (table 15). In contrast, gonorrhea was detected in only 3.6 percent of women screened for cervical cancer (in general over 30 years of age), in 6.0 percent of prenatal examinees, and in 10.1 percent of foodhandlers.

Treatment Page 279.3

The presently recommended schedule of treatment for uncomplicated gonorrhea in males is a single intramuscular injection of 1,200,000 units of PAM; in females, 1,800,000 units of PAM or 600,000 units of PAM plus 1,200,000 units of benzathine penicillin G (or 1,800,000 to 2,400,000 units of a preparation combining procaine penicillin G and benzathine penicillin G). The failure to control this disease has resulted, however, in less standardization of treatment for gonorrhea than for syphilis.

Numerous antibiotics are effective in the treatment of gonorrhea. Preliminary results of an evaluation of treatment of gonorrhea in the female, using the delayed fluorescent antibody (FA) technique as a test of cure (table 16) indicate that some are superior to penicillin administered in dosages of less than 2,400,000 units.

The fluorescent entipody tochique with BLE 14m seed on been used experi-

COMPARISON OF LABORATORY TECHNIQUES IN THE DETECTION OF THE GONOCOCCUS IN THE FEMALE

mentally in aelected venereal disease clinics throughout the country. Although there is variation

Total All Participating Laboratories as of July 31, 1963

Site of Specimen	Laboratory Technique	Total Examined	Result of Examination						
			Positive		Negative		Unsatisfactory		
			Number	Percent		Percent	Charles and the part of the part of	Percen	
Total	Culture	9,470	2,099	22.2	7,321	77.3	10(ens lo 50	0.5	
patients	Direct FA	9,480	1,454	15.3	8,026	84.7			
	Delayed FA	9,481	3,502	36.9	5,979		enginer	ngi	
	Total	9,483	3,552	37.5	5,931	62.5	CARREL BECK 7	EAR IN	
Cervixional	Culture	9.416	1 891	20.1	7,452	79.1	73	0.8	
	Direct FA		1,015	10.8		000			
	Delayed FA		2,821	29.9		70.1	e intramu		
ile CV.	Total		2,902	30.8		69.2	,000 unit 14 - 14 (000 10 10 10 10 10 10 10 10 10 10 10 10	
atalika e	ou to actificab		al mayawa.	l shéafaeor e	ad Szakélb	eid: louis	i or smit	aliadi	
Urethra	Culture	9,434	1,386	14.7		84.3			
	Direct FA	9,455	754	8.0	8,701	92.0			
ns lo e	Delayed FA		2,680	28.3	6,777	80 71.7	вистеции		
y (FA)	Total	9,459	2,766	29.2	6,693	70.8	tion of tre	Comments of the comments of the	
-einimb	o penicilia a	1 voltadns pr	hat wome d	1 singibai (6	ne (table ld				
Vagina	Culture	9,454	1,449	15.3	7,899		106	1.1	
	Direct FA	9,475	652	6.9	8,823	93.1			
	Delayed FA	9,480	2,569	27.1	6,911	72.9			
	Total	9,481	2,686	28.3	6,795	71.7			
Other	Culture	4	2		2				
Sites	Direct FA	4	1		3				
	Delayed FA	4	3		1				
	Total	4	3		1			v	
Total	Culture	28,308	4,728	16.7	23,305	82.3	275	1.0	
	Direct FA	28,358	2,422	8.5	25,936	91.5			
Opecimens	Delayed FA		8,073	28.5	20,292	71.5			
	Total	85,031	15,223	17.9	69,533	81.8	275	0.3	

TABLE 15

TABLE 15

FREQUENCY OF POSITIVE DELAYED FA TESTS IN FEMALES

BY TYPE OF CASE EXAMINED

evidence of		alila 17 Memilyona	Positive Delayed		
Gonorrhea	Type of Case	Total Examined	FA Test		
odiornea	Type of Case	Examined	Number	Percent	
NO	Contact of known GC	2,773	1,629	58.7	
	Volunteer	2,522	930	36.9	
Mar he al	선물이 있는 경기를 하는 경기 가지 않아요? 그들이 하면 살이라고 한 경험을 하는 것이 없는 것이 없는 것이 없었다.		266	25.7	
and the second	그것을 하고 있다는 그들이 하는 것으로 가를 잃었다면 그렇지만 하고 있다면 하는데 하는데 하는데 하는데 하는데 하는데 하는데 없었다.	126		3.2	
	Premarital	152	4 30	19.7	
80 . 80 Ia both	트리스 보통 <u>(1</u> 20년 - 120년 - 121년	2,111	104	4.9	
\$ 41.000 patie			3 24	20.6	
80	0	1,575	156	9.9	
Manapaytestoic	Other or unspecified	837	297	35.5	
Section suck!	etnin pet Total 842	12,708		29.4	
EðYES ala	Contact of known GC	2 013		00,000.1 -	
LEO GEL	Contact of known GC 128 Volunteer	1,911	1,506		
		1,033	677	65.5 41.7	
94 58	VD other than GC	127	53 1000 100 13000		
	Cervical Cancer screening	6		16.7	
	Premarital		hed de - Ong	40.0	
1 300 m	Prenatal	71	22 10 1	31.0	
	Jail inmate	236		28.0	
82 55	Food handler	80	O al 140 ma		
	Other or unspecified	174	114 Man I	65.5 - 11 3 V 11 3 T	
ETTO S	Total	3,653	2,459	67.3	
TOTAL	Contact of known GC	4,888	3,275	67.0	
TOTAL	Volunteer	3,625	1,629	44.9	
Including	VD other than GC	1,189	323	27.2	
un-		138	5	3.6	
specified)	Cervical Cancer screening Premarital	170	36	21.2	
-becilied)	Premarital Prenatal	2,209	133	6.0	
		1,842	393	21.3	
	Jail inmate		173	10.1	
	Food handler Other or unspecified	1,707 1,027	421	41.0	
	Total	16,795	6,388	38.0	

TABLE 16

EVALUATION OF SCHEDULES OF TREATMENT FOR GONORRHEA IN THE FEMALE USING DELAYED FLUORESCENT ANTIBODY TECHNIQUE AS TEST OF CURE

Schedule of Treatm	ent	Total Cases	Cases Completing	Cured		
COMPARISON OF	LABORATORY	Treated	Followup	Number	Percen	
Mysteclin F (oral) - 3 grams	WUNDERCEUS.	IN THE PER	ALBerger		evidence	
500 mg. every 4 hours	isteT Saturglaborat	234	161 .	128	79.5	
Panmycin phosphate (IM) - 500mg						
250 mg. at 24-hour interval		137	110	82	74.5	
Cyclamycin (oral) - 3 grams	222.2 Page		Volume of adoptive the control of th	Unantis		
500 mg. every 4 hours		218	154 NV	110	71.4	
Chloromycetin - 1 gram'			Cervical Cancer			
Single IM injection		214	157	108	68.8	
Aqueous procaine penicillin G			79 siembiliel			
1,200,000 u Single IM injecti			Food 061dler FR	86	66.5	
PAB (procaine penicillin G and	V68	beil	Other er unspeci			
benzathine penicillin G) - 2,400,000 u Single IM injecti	on	248	170	112	65.9	
PAM - 1,200,000 u						
Single IM injection	116.1	321	227	145	63.9	
Benzathine penicillin G -			Voluntager VI) other than I-	96	1.0	
1,200,000 u Single IM injection	3	232	Cervical Cascer	94	58.8	
Combination schedule - One IM	21 2 2 2 3		Premarkal			
Injection each of PAM - 1,200,000 u.	236		Presidenti Jell lamate			
Benzathine penicillin G	08 253 3	223	199 as II 149 Roo I	82	55.0	
Streptomycin - 1 gram	374	6.9 bêif	Other of vaspect			
Single IM injection		280	197	108	54.	
2,459 67,3	686.6	the state of the second section which make the	Total	ar care is no forestated	transamentus en la grande	
her Culture 4	2	Annual Control of the	2			
8.275 Treerider.o seni	888,4	n GC	Contact of kubw		JATOT -	
o. parented offer 4	8 3,625		Volunteer L VD other then G		and the second	
mana na transportem de altre a casa e como como como del de transportem e compresso de como de como de como de As de	REI		Cardeal Caeres		anibulan() :	

Penicillin Reactions

Since penicillin is the drug of choice for the treatment of both syphilis and gonorrhea, the Venereal Disease Branch is concerned with the frequency and severity of reactions to penicillin therapy. Through the cooperation of venereal disease clinics two studies have been conducted to determine their frequency — one in 1954, the other in 1959. The 1959 study was patterned after the 1954 study, the single departure being a request that, if possible, patients be detained in the clinic for a 30-minute period following treatment.

Results of these two studies are shown in Table 17. Reactions to penicillin were reported in 9.7/1,000 patients treated in 1959 and in 5.9/1,000 patients treated in 1954. This increase, amounting to 64 percent in the frequency of reactions reported, is attributable, at least in part, to the delay in dismissing patients after treatment. This is evidenced by the fact that a significant increase is noted only among patients treated on single session schedules. In general, such patients are not seen following treatment; but by detaining them in the clinic for a half-hour the clinicians were afforded an opportunity to observe reactions which otherwise would not have come to their attention.

In both studies, urticaria was the most frequent type of reaction, occurring in approximately 5/1,000 patients treated. Moderate to severe anaphylaxis also occurred with approximately the same frequency in 1959 as in 1954, 0.3/1,000 and 0.2/1,000 respectively. However, mild anaphylactoid reactions, generalized pruritis, vertigo or syncope, gastrointestinal disturbances, and chills, fever or headache were reported more frequently in 1959. No fatal reactions occurred during either study period.

TABLE 17

COMPARATIVE FREQUENCY OF REACTIONS TO PENICILLIN IN 1959 AND 1954 BY VARIOUS FACTORS KNOWN TO INFLUENCE THE RATE

The 1959 study was patterned	9891 ni 19	959 S T U	O Yeni ono -	1954 S T U D Y			
"politifier plittering detained	Total	Cases Reacting		Total	Cases Reacting		
ines to section the beautiful interest of anni	Cases	Number	Rate/1,000	Cases	Number	Rate/1,000	
Grand Total	25,550	248	7 les 9.7 [s	19,510	116	5.9	
Epidemiologic treatment	5,938	32	5.4	3,757	10	2.7	
Gonorrhea	15,104	83	5. 5	12,026	29	2.4	
Syphilis and the state of the s	3,229	122	37.8	3,442	77	22.4	
Procaine penicillin G in oil	10,294	122	11.9	12,179	97	8.0	
Benzathine penicillin G	6,164	74	12.0	7,109	2 01 17 000	evad 2.4	
Single session schedule	21,502	122	214 5.7	17,710	51	2.9	
2-7 day schedule	1,768	45	25.5	694	ibwi 14 000	20.2	
Schedules of 8 or more days	2,280	81	35.5	1,106	1 81 51 1 ling	46.1	
Previous penicillin		TH UUU, I\	aar geomi ni Amerikanika	en weki Panga Lengh	u vonsups	TO SMARKE	
Reacted	154	18	116.9	121	12	99.2	
Did not react	20,547	185	9.0	14,214	56	3.9	
No previous penicillin	2,866	26	9.1	3,750	34	9.1	
White - Male	1,546	24	15.5	965	7	7.3	
Single Female tion	1,121	16	14.3	670	745	10.4	
Negro - Male	11,297	78	6.9	9,548	32	3.4	
Female	8,702	84	9.7	7,738	51	6.6	
10-19 years of age	5,127	23	4.5	3,908	12	3.1	
20-29 " " "	11,660	95	8.1	9,512	37	3.9	
30-39 11 11 11	4,513	52	11.5	3,674	34	9.3	
40-49 II II II	1,595	33	20.7	1,252	21	16.8	
50 years and over	1,102	36	32.7	1,012	11	10.9	

Penicillin Reactions