VD FACT SHEET

to collected

downy cases :

Control programs.

Division of Venereal Disease Office of Statistics

INFORMATION, July 1949, A. December, 1950

Oten decreasing for the past lour year No. 7

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Years 1981 - 1980 (wokene 1

FEDERAL SECURITY AGENCY the synking incidence again PUBLIC HEALTH SERVICE

Age Groups 52, 681

158,083 JATOT

White

17.6

INCIDENCE - The number of new cases of a disease occurring in a specified area during a time period, usually one year. The incidence rate is calculated by dividing this figure by the average population of the area during the period and multiplying by 1000 (for rate per 1000) or 100,000 (for rate per 100,000). Because of inadequacy of case finding of syphilis, many cases are not discovered until the later stages and therefore the true incidence cannot be determined. For trend purposes, however, the number of cases of early syphilis discovered may be taken as the "minimum" incidence.

For reasons outlined in the JOURNAL OF VENEREAL DISEASE INFORMATION, July 1949, it is believed that U.S. syphilis incidence has been decreasing for the past four years in the areas which are covered by control programs.

TABLE I

Estimated U.S. Annual Minimum Incidence of Syphilis
1936 - 1950

245, 345,

	CASES IN CONT	INENTAL U.S.
Fiscal Year	Civilian and Total Armed Forces	Civilian Only
1936-37	syphilis is approxima	259,000
1940-41	les. 55 best war war	173,000
11sv1941;sb 1	183,000	177,000
1942	206,000 to vaso	
1943	259,000	di 10 231,000 · hispand
1944	247,000	201,000
1945	231,000	178,000
1946	262,000	202,000
2001947 000	241,000	214,000
1948	194,000	178,000
1949	151,000	139,000
1950	realm 105,000a miseri	경에서 하는 경험 마이지 않는 것이 하는 것이 하지만 하게 되었다면 하는 것이 되었다면 하는 것이 없다.
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ons known (or White 150 perconly for 1949) indi-

positive palf of are per-

> Years 1936-37 and 1940-41 (source 1) Years 1941 - 1950 (source 2)

The incidence of gonorrhea is believed to be at least five times the syphilis incidence (source 4).

incidence,

INCIDENCE - The number of new cases of a disease occurring in a specified area during a time period, usually one year. The incidence rate

<u>PREVALENCE</u> - The total number of cases of a disease existing in a specified area at a point of time. The prevalence <u>rate</u> is calculated by dividing this figure by the population of the area at that time and multiplying by 100 (rate per 100) or 1000 (rate per 1000).

TABLE II

number of cases of early syphilis discovered may be taken as the "minimum"

The prevalence rate per 1000 of syphilis detected among male selectees and volunteers examined during November 1940 to August 1941, by color and known age groups is shown below.

Age Groups	White	Negro	Other & Unknown	TOTAL
21-25	10.2	I E 191.7	25.3	30.1
26-30	21.0	294.8	46.6	54.4
31-35 silingy& h	37.9	mum 357.8 avan	Estima 3.08 . S. A	83.5
Other Ages	26.6	151.2	59.4	71.9
TOTAL	17.6	245.2	41.0	46.1

CASES IN CONTINENTAL U.S. . . 8 april

Page 1

The prevalence of syphilis among examined sexual contacts of persons known to have primary or secondary syphilis is approximately 50 percent for White males, 51 percent White females, 55 percent Non-White males, and 59 percent for Non-White females (source 5). More recent data, available only for the total of all contacts to primary or secondary syphilis (calendar 1949) indicates 42 percent infected of those examined (source 6). The comparable figure for 1946 is 54 percent.

There are in the United States approximately 3,000,000 persons with positive results to the serologic test for syphilis. It is estimated that about half of these persons have never been treated for syphilis and the other half are persons who received inadequate treatment under older arsenical schedules and early penicillin schedules.

262,000

Years 1936-37 and 1940-41 (source 1) Years 1941 - 1950 (source 2)

Fiscal Year Civilian and Total

The incidence of gonorrhea is believed to be at least five times the syphilis incidence (source 4),

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TABLE III

Page 4

Cases of Syphilis and Gonorrhea Reported to the Public Health Service By State Health Departments Continental United States 1919 - 1950

	7		1 3 2 2
Fiscal Year		Syphilis	Gonorrhea
1919	113 41 10	100,466	131,193
1920		142.869	172,387
1921 Includi	화를 되면	217,817	203, 281
1922	ded 7 Bea	171,824	152,959
1923	13 51 18	172,258	156,826
1924	18 1	193,844	160,790
1925		200,584	165,523
1926	ferri	215,547	166,655
1927		196,219	160,555
1928	1 1	176, 502	143,490
1929	Cons	195,559	156,544
1930	201 00	213, 309	155, 875
1931	1 5 5 6	229, 310	155,729
1932	T 1994 S. C. C. C.	260, 564	158, 083
1933	al sis	234,647	149, 527
1934	1 5 3	230,890	153, 255
1935	1A 12 1 60 6	254,551	161,810
1936	1 91.51	266,626	162,487
1937	State	336, 147	182,435
1938	69	480, 140	198,439
1939	1 1 11	478, 738	182,314
1940		472,900	175, 841
1941		477,841	191,306
1942	97 W	472,245	212,384
1943		564,918	275,648
1944		458, 199	300, 585
1945		356, 315	284,994
1946	12	360, 918	364, 853
1947	8.1	373, 296	400,659
1948	107 10	338, 141	363,014
1949	STINEL !	288, 769	331,695
1950	Δ.	231, 567	304,066

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Source 2 (1941 - 1950 Military cases excluded) Source 19 (1919 - 1940 Military cases included)

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Cases of Venereal Diseases Reported to the Public Health Service Fiscal Years 1941 - 1950 (Known Military Cases are Excluded) Thousands of Cases

SOUTCE

7.77	the of the	43	Syphilis		5 5	Gonorrhea	O	ther Venerea	l Diseases
Year	Primary and Secondary	Early Latent	Late and Late Latent	Congenital	Not Stated	E PE	Chancroid $\underline{1}$	Granuloma Inguinale	Lymphogranulom Venereum
	The I			In Sta	tes and Ter	ritories	2021	0.00	
1941	68.3	108.9	201.9	18.0	82.9	193.0	3.3	0.6	1.3
1942	78.6	118.3	206.5	18.9	62.2	218.6	5.6	1.3	1.9
1943	84.6	150.7	256.9	17.9	65.9	280.9	8.5	1.8	2.4
1944	80.3	125.4	208.8	15.7	42.5	307.5	8.0	1.8	2.9
1945	78.6	104.9	146.5		23.4	293.7	w 45.6w	1.9	2.7
1946	96.2	110.7	129.1	14.2	20.8	372.6	7.3	2.2	2.6
1947	107.8	111.5	124.6	14.1	24.5	409.8	9.4	2.4	2.7
1948	81.4	101.4	125.9	14.5	22.7	372.2	8.9	2.3	2.5
1949	54.9	88.0	123.9	15.7	0 14:11	342.9	7.4	2.6	2.2
1950	32.9	69.2	116.1	15:3	7.0	313.6	5.9	2.0	1.7
		(A)	ii is	In Conti	nental United	l States		4 4	
1941	68.0	108.7	201.2	17.6	82.4	191.3	3.3	0.6	1.3
1942	75.7	116.4	202.2	16.9	61.0	212.4	5.4	1.3	1.9
1943	82.2	148.9	253.0	16.2	64.6	275.6	8.3	1.7	2.4
1944	78.4	122.4	203.4	13.6	40.4	300.6	7.9	1.8	2.9
1945	77.0	101.1	142.7	12.3	23.1	285.0	5.5	1.8	2.6
1946	95.0	107.3	125.8	12.1	20.7	364.9	7.1	2.2	2.6
1947	106.6	107.8	122.3	12.3	24.4	400.7	9.0	2.4	2.7
1948	80.5	97.7	124.0	13.3	22.6	363.0	8.6	2.3	2.5
1949	54.3	84.3	121.9	4 14.3 0	13.944	331.7	0 07.20	2.6	2.2
1950	32.2	65.6	113.2	13.6	6.9	304.1	5.8	2.0	1.6

^{1/} Includes some unspecified "Other Venereal Diseases".

34532

Source 2.

TABLE V

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Page 6.

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Total Syphili Reported Syphilis Case Rate per 1000 Population Fiscal Years 1941 - 1950

Year	Total Including Not Stated	Primary or Secondary	Primary, Secondary & Early Latent	Congenital	Late and Late Latent
not be	determines.	Continenta	l U. S. Civilian	sof of coage	
1941	3,623	0.515	1.339	0.133	1.525
1942	3.579	0.574	1.456	0.128	4 1.533
1943	4.388	0.639	1.796	0.126	1.965
1944	3.607	0.617	1.581	0.107	1.601
1945	2.805	0.606	1.402	0.097	1.124
1946	2.703	40.711	1.515	0.091	0.942
947	5 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M	0.756	1.520	0.087	0.867
1948	1. EST. 10 (1971) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.558	1.236	0.092	0.860
1949	1.970	0.370	0.946	0.098	0.832
1950	1.551	0.216	0.655	0.091	0.758
10 EM	The second second second second second	W. Wat	and Continental	U.S. Civilia	ns
941	3.648	0.558	01.377	0.133	0 1.517
942	3.629	0.669	1.538	0.126	1.510
1943	4.371	0.813	1.911	0.119	1.865
1944	3.670	0.905	1.796	0.099	1.481
1945	2.945	0.934	1.662	0.089	1.027
1946	2.994	1.100	1.864	0.086	0.896
1947	2.801	0.931	1.687	0.086	0.857
1948	2.430	0.659	1.331	0 003	0.852
1949	2.034	0.450	1.020		0.824
1950	1.587	0.264	0.699	0.091	0.751

* * * * * 6 0 0 0 0 6 0 0 0 0 6 4 5 8

REPORTED VENEREAL DISEASE CASE RATES PER 100,000 POPULATION BY COLOR AND SEX CONTINENTAL UNITED STATES CIVILIANS

(Kn Fiscal Years 1947 - 1950 cluded)

Fiscal Ykads 1941 - 1950

Diseas Stage		10 3 01	TOTAL	85246	TO SAN	WHITE	0 4 0 N	hery A Marie and the second control of the	NON-WHIT	F.E
And Yea	r	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total Syphilis	1947	264.8	263.7	265.7	118.4	113.1	104.2	1507.8	1389.4	1619.9
(includes Not	1948	234.5	230.8	238.1	98.7	110.2	87.5	1375.5	1256.5	1489.1
Stated)	1949	197.0	195.0	199.0	81.2	90.9	71.8	1175.9	1088.9	1258.2
194) 67	1950	155.1	152.4	157.8	62.9	69.4	56.5	926.1	855.2	993.4
Primary &	1947	79.6	85.6	65.9	36.9	44.8	29.1	404.9	437.3	374.2
Secondary	1948	55.8	62.3	49.6	25.8	31.7	20.0	308.5	322.2	295.4
Syphilis	1949	37.0	41.5	32.7	16.4	20.5	12.4	211.2	221.4	201.6
1946 H 96	1950	21.6	24.1	19.2	9.4	11.7	7.2	123.4	128.9	118.2
Early	1947	76.4	62.2	90.2	24.9	23.6	26.3	513.7	395.0	626.1
Latent	1948	67.8	54.2	_ 81.1 0	20.7	18.6	22.8	463.5	356.6	565.5
Syphilis	1949	57.5	46.4	68.4	17.3	15.6	19.0	397.6	310.9	479.6
and the second s	1950	43.9	34.7	52.9	13.2	11.7	14.7	300.4	229.2	367.9
Late and	1947	86.7	2 90.1	83.4	42.9	49.4	36.6	458.9	440.7	476.1
Late Latent	1948	86.0	89.1	82.9	38.7	44.8	32.8	483.2	466.2	499.4
Syphilis	1949	83.2	87.5	79.0	38.2	44.4	32.2	463.5	457.7	468.9
1944 76	1950	75.8	80.0	71.7	34.6	40.2	29.1	420.6	417.5	423.4
1945 776	1947	8.7	97.3	9.9	4.3	3.6	25.1	50.0	41.5	50.2
Congenital	1948	9.2	8.0	10.4	4.2	3.4	4.9	51.9	47.5	56.2
Syphilis	1949	9.8	8.7	10.8	3.7	3.2	4.2	60.7	56.1	65.1
1989 546 1980 1 32	1950	9.1	8.1	10.1	3.1	2.5	3.7	59.6	56.2	62.8
	1947	284.2	384.1	187.2	119.0	157.1	81.3	1687.9	2340.6	1070.1
2.1/ Includes	1948	251.8	356.9	149.3	95.9	129.7	62.9	1561.5	2287.8	868.0
Gonorrhea	1949	226.3	323.3	132.0	77.8	105.5	50.8	1481.9	2193.2	809.3
W PROMECE 2	1950	203.7	292.3	117.70 ss	59.1	78.8	39.9	1411.9	2100.0	759.1

Sources 2, 8.

FACTS ABOUT CONGENITAL SYPHILIS

INCIDENCE

Page 8

Because of inadequacy of case finding of congenital syphilis, many cases are not found early in life and thus the true incidence can not be determined. For trend purposes, the number of congenital syphilis cases reported under age one might be taken as a rough measure of "minimum" incidence. While current information for all states is not available, latest data submitted show the number of reported cases of congenital syphilis under age one to be 4.0 per 10,000 live births in 1949.

PREVALENCE

The current estimated prevalence of congenital syphilis in Continental United States, age 0 - 10 is approximately 100,000.

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PRENATAL LAW

In 1948 thirty-eight States had prenatal blood testing laws. Of the total live births occurring in Continental United States, during 1948, 78 percent were in these States having laws. 73 percent of the congenital syphilis reported for Continental United States was reported by these States.

In 1945, the last year for which data are available, the ratio of the number of prenatal serologic tests for syphilis to the number of live births in the 26 States having a law was approximately one half.

Source 28.

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REPORTED HINERES BORRES C Reported Mortality and Insanity Due to Syphilis Continental U.S. 1933 - 1949

Year	Syphilis Mortality Rates ear per 100,000 population		Syphili	Mortality s Rates p ive birth	per 1000	First Admissions to Mental Hospitals Due to Syphilis Rates per 100,000 Population <u>l</u> /	
ed) 01989	Total	White	Non-White	Total	White	Non-Whit	e Total
1933	15.1	10.9	52.4	.79	.44	2.95	6.6
1934	15.9	11.3	56.6	.74	.41	2.84	6.6
1935	15.4	11.0	54.0	.70	.41	2.77	6.6
1936	16.2	11.5	56.8	.73	.41	3.07	6.6
1937	16.1	11.4	58.0	.69	. 37	2.96	6.4
1938	15.9	11.1	58.2	.63	.33	2.81	6.3
1939	15.0	10.4	55.1	.57	.28	2.60	6.6
1940	14.4	9.9	54.3	.53	.25	2.52	5.8
1941	13.3	9.3	47.5	.41	. 18	2.03	6.1
1942	12.2	8.6	42.5	.30	.15	1.50	5.9
1943	12.1	8.6	42.1	.25	. 12	1.28	5.4
1944	11.3	7.9	39.6	.27	.12	1.35	5.3
1945	10.7	7.5	36.9	.25	0 0.11	1.26	5.2
1946	9.3	6.6	32.1	. 16	.07	.92	4.7
1947	8.8	6.4	29.9	2 . 14	.05	. 82	4.3
1948	8.0	5.7	26.9	.12	.05	.63	3.7
19492/	7.6	5.6	23.8	.09	.04	.45	- 46

Does not include admissions to V. A. Hospitals $\frac{1}{2}$ Does not in Estimated

Sources 9, 10, 11.

TABLE VIII

Clinic and Epidemiologic Data

Fiscal Years 1947 - 1950

Clinic and Epidemiologic Data	1947	1948	1949	19501/
Diagnostic examinations in public clinics	1,776,087	2,328,002	2,276,957	2,717,614
Percent of examinations in which one or more Venereal Diseases were found	30.0	21.0	20.3	15.7
Previously untreated syphilis cases found per 100 examined	9.3	6.7	5.7	3.9
Previously untreated primary-secondary syphilis cases found per 100 examined	3.2	1.9	1.3	.7
Percent of early syphilis discovered referred for inpatient treatment	61.0	65.5	57.0	49.2
Number of contact investigations completed	476,368	408,054	380,079	339,966
Number of other suspect investigations completed Approximate number of contacts obtained from each	177, 169	164,003	153,435	148,563
prev. untreated pri. & sec. syphilis patient	1.79	2.30	2.54	2,70
Approximate number of syphilis infections identified in the contacts of each prev. untreated primary	10.46		126 14.24	
& secondary patient	.54	, _{44 3} .70	.73	.70
treatment in the contacts of each prev. untreated	0 13.46550	1 22.9	1 322 18 41	26.54 76.7
primary & secondary patient	.30	.37	.41	.40
brought to treatment in the contacts of each prev. untreated primary & secondary patient	15	.17	.19	.20

1/ Provisional

Sources 2, 25.

COSTS OF UNCONTROLLED VENEREAL DISEASE

Venereal Disease Disability in Man-years.	돌.위
Hospitalization for syphilis treatment (Fiscal 1950)12/	2,326
Hospitalization for syphilitic insanity $(1944)^{13}$	25,450
Disability from cardiovascular syphilis (1945)3/	7,820
Disability from locomotor ataxia (1945)3/	5,070
Disability from syphilitic blindness (1946)3/	13,400
Economic cost of Paresis and Syphilitic Blindness	
Maintenance of paretics (1940)14/	\$ 11,000,000
Loss of income by male paretics (1940)14/	112,000,000
Maintenance of syphilitic blind (1939)15/	4,000,000
Loss of income by syphilitic blind (1939)15/	6,000,000
Syphilitic loss of Life in Man-years (1944)	
White 16/	201,000
Non-White 17/	150,000
Total Population	351,000

S. TIT. SIE

factory programmer among children date and to p of treatm TREATMENT OF SYPHILIS WITH CRYSTALLINE PENICILLIN G RESULTS OF SEVEN SCHEDULES WITH 21-24 MONTHS POSTTREATMENT OBSERVATION

		CATIVE DD	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		SRVATION SITIVE PI	III OCC		SECONDARY	,
Schedule of Therapy	Cases	Cumula. percent re-treat.	Percent Sero-	Cases observed	Cumula.	Percent Sero-	Cases observed	Cumula. i percent c. re-treat.	Percent Sero-
9,000,000 units POB - 600,000 q 24 hours	25	7.1(±10.3)	92.9	31	8.6(±10.1	N 01 4	108	7.5(±5.1)	83.1
4,800,000 units -	and Andreas	7.1(±10.5)	92.9	A 10 10 10 10 10 10 10 10 10 10 10 10 10	m ~ %	1) 71.4	100	STEED IN	65.1
80,000 q 3 hours	23	12.8(±13.9)	87.2	33	13.4(±11.9	83.7	152	13.8(±5.6)	83.0
4,800,000 units - 53,333 q 2 hours	32	7.4(±9.3)	92.6	46	15.0(±10.	5) 82.9	139	11.7(±5.5)	82.6
2,400,000 units -	o the state of the	13	H H		0 7 2	0 002 0	124	1 4 4 9 5 6	00.2
26,667 q 2 hours 2,400,000 units -	436 9	8.8(±8.6)	91.2	72	10.8(±7.3)	87.8	126	14.2(±6.2)	80.2
40,000 q 3 hours	47	7.8(±7.8)	92.2	67	15.2(±8.8)	84.8	156	16.6(±6.0)	79.6
3,400,000 units - 40,000 q 2 hours	589	11.0(±8.2)	89.0	130	13.4(±6.0)	82.9	322	15.4(±4.0)	76.7
2,800,000 units -		6 P. 0	2 77	, o 1	15	37.7		E P E S	
25,000 q 3 hours	40	11.8(±10.2)	88.2	57	12.4(±8.7)	82.2	177	22.0(±6.2)	72.8

\$ \$1,000,000

22,000,000

PENICILLIN IN THE TREATMENT OF SYPHILIS

Early Syphilis

Page II

Only 30 percent of patients with early syphilis admitted to clinics for routine therapy received the minimum protective regimen of 20 arsenical injections together with heavy metals 26. Under present penicillin schedules for in-patients (ranging in duration from 4 to 14 days), 99 percent complete treatment 2. Among clinic patients 40 percent on an 8-week schedule and 75 percent on a 6-day schedule completed treatment within the prescribed period; the percentage eventually completing treatment, however, ranged from 89 to 97 percent 89.

Congenital Syphilis

Maintenan West partiff (1540)

There is a significantly greater percentage of patients with satisfactory progress among children treated at less than 6 months of age than among children treated at 6 months to 2 years of age or children treated at 2 years of age or over.

TABLE X

by male pentetics (1940) 12/

Age of child at time of treatment	Satisfactory Progress 6 - 18 months posttreatment	Unsatisfactory Progress 6 - 18 months posttreatment
Less than 6 months 6 mos 1 yr. 11 mos. 2 years and over	95.7 percent 75.0 percent 61.4 percent	4.3 percent 25.0 percent 38.6 percent

Source 18

Syphilis in Pregnancy

Penicillin therapy among pregnant syphilitic women is very effective in preventing congenital syphilis. Treatment by weekly injections of arsenicals and heavy metal started after the fifth month of pregnancy had a failure rate of over 22 percent which is nearly six times higher than the failure rate of penicillin begun in the third trimester. Arsenical and heavy metal treatment begun before the fifth month of pregnancy has a failure rate over twice that of penicillin.

TABLE XI

Outcome of Pregnancy by Stage of Disease at the time of Mother's Treatment During Pregnancy

Stage of Disease at time of Mother's treatment with Penicillin	Percent of Total Live Births			
	Congenital	Non-Syphilitic		
All Diagnoses Primary & Secondary Early Latent	3.5 4.2 2.1	96.5 95.8 97.9		

Source 20.

Present evidence on the outcome of pregnancies of mothers treated for syphilis with penicillin before pregnancy indicates that the child was protected in more than 99 percent of the cases. These were mothers for whom the physician believed the original treatment for the infection was sufficient, and who were permitted to go through the pregnancy without additional therapy. 27

TABLE XII

Penicillin in the Treatment of Gonorrhea

Treatment Schedule	Percent Cure*	Source
200,000 units - single injection - Calcium Penicillin in peanut oil and 4.8 percent beeswax	92	(21)
200,000 units - 3 injections in 2 hours - Sodium Penicillin aqueous (50,000 - 50,000 - 100,000)	94	(22)
200,000 units - 4 injections in 3 hours - Sodium Pencillin aqueous (40,000 - 40,000 - 40,000 - 80,000)	96	(22)
200,000 units - 3 injections in 2 hours - Crystalline G Penicillin aqueous (50,000 - 50,000 - 100,000)		(23)
Given by intramuscular needle injection	97.9	4 4
Hypospray Administration	97.5	

^{*} Clinically and bacteriologically free of infection, i.e., without signs or symptoms and with three or more cultures - all negative - during the observation period.

IRZE-29. Table 4.

TABLE XIII

Many & hoge bloom of Design Device and the Second Disabilities Westerman Design Design

Tabulated by the Program Evaluation Section, Envision of Venereal Diseases

SEVERE REACTIONS AND DEATHS REPORTED BY 36 RAPID TREATMENT CENTERS FROM JULY 1946 THROUGH JUNE 1950

Type of Treatment	Total Cases	Severe Reactions		Number of
	Treated	Number	Rate per 1,000	Deaths
Vithout Arsenoxide:		e . Tillian	Second Edition, va seese VI most	
Aqueous penicillin	100,454	479	4.77 and 64	no book With
Penicillin in oil and beeswax	41,231	48	1.16	
Procaine penicillin	43,892	aa :51 1 au	ane 1.16 8298 cm	
TOTAL	185,577	578	3.1101 2000	7
Vith Arsenoxide:	engis Tabulan statifu sta maratifu ero ta	ang aliku sata Mara Mara	ala teguras Litviral 91. Medical Statts	1947-194
queous penicillin	107,358	1679	15.64	M 91730
renicillin in oil and beesway	48, 121	279	5.80	1
Procaine penicillin	815	Cei č ua B	to 46.13 tell bad	aildegeU
8. 1933-1940, VALATOT	156,294	1963	12.56	18
GRAND TOTAL	341,871	2541	7.43	20

Census Sureau Patients in Medial Institutions 1933-1946; Population Bulleges U.S.P. H.S., Vatleral Institute of Medial Median Patients in Menial Institutions

Selection of the standard of discharges and leaded to the standard selection of arms in Slate. Sensus Sureau 1944, estimated the standard selections. Sensus Sureau 1944, estimated the selections of the selections of the selections.

tournal of Venezeal Disease Information, July 1946, Pages 193-200, Table 50

Calculated from Vital Statistics of the II S, 19th and Provisional U.S. 19th

Journal of Venereal Disease Information, August 1985, Pages 175-183;

lournal of Venereal Disease Information, April 1919, Pages 91-95

Rables 1945, Calculation by Division of Veneveal Dispase, PHS.

los other Hospitals included and based on Sists Hospital data.

Missaion of Venereal Disches, FMS Form 106.

Source 18.

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REFERENCES:

- 1. N.Y. State Journal of Medicine: October 1, 1943; Volumn 43, No. 19, Pages 1825-29, Table 4.
- 2. Tabulated by the Program Evaluation Section, Division of Venereal Disease, based on reports submitted by State Health Departments.
- 3. Results of Serological Blood Tests for Syphilis on Selective Service Registrants, first and second million reports.
- 4. Unpublished estimate, Division of Venereal Disease.
- 5. Journal of Venereal Disease Information, August 1948: Volumn 29, Page 233.
- 6. Results from 19 areas submitting contact investigation data to the Division of Venereal Disease Office of Statistics.
- 7. PHS Form 8958-B: Census Bureau; Special Population Reports, Series P-46, No. 6, Series P-25, Nos. 3, 13, 27; Incidence of Venereal Disease in the U.S. Army Troops 1941-1946, Medical Statistics Division, Department of the Army Medical Statistics Division, Department of the Army, Health of the Army 1947-1949; Medical Statistics Division, Bureau of Medicine and Surgery, Deptof the Navy, 1941-1945; Statistics of Navy Medicine 1946-1950.
- 8. Unpublished Estimate of Census Bureau.
- Census Bureau: Vital Statistics Rates in the U.S. 1933-1940; Vital Statistics of the U.S. 1940-1946; Population Releases. U.S.P.H.S., National Office of Vital Statistics: Vital Statistics of the U.S. 1947-1949.
- 10. Census Bureau: Vital Statistics of the U.S. 1941-1946; Population Releases U.S.P.H.S., National Office of Vital Statistics: Vital Statistics of the U.S. 1947-1949.
- 11. Census Bureau: Patients in Mental Institutions 1933-1946; Population Releases U.S.P.H.S., National Institute of Mental Health: Patients in Mental Institutions 1947-1948.
- 12. Division of Venereal Disease, PHS Form 106.
- 13. Calculated from number of discharges and deaths and length of stay in State Hospitals "Patients in Mental Institutions", Census Bureau 1944, estimate for other Hospitals included and based on State Hospital data.
- 14. Journal of Venereal Disease Information, August 1945, Pages 175-183
- 15. Journal of Venereal Disease Information, April 1939, Pages 91-95
- 16. Journal of Venereal Disease Information, July 1948, Pages 193-200, Table 5.
- 17. Calculated from Vital Statistics of the U.S. 1944 and Provisional U.S. Life Tables 1945, Calculation by Division of Venereal Disease, PHS.

- 18. Unpublished Data, Office of Statistics, Division of Venereal Disease.
- 19. Annual Reports of the Public Health Service 1919-1940.
- 20. Journal of Venereal Disease Information, April 1949, Pages 95-100.
- 21. Journal of Venereal Disease Information, May 1945, Pages 98-103.
- 22. Journal of Venereal Disease Information, September 1946, Pages 225-228.
- 23. Journal of Venereal Disease Information, March 1948, Pages 61-63
- 24. "Modern Treatment of Syphilis", Moore, J.E. Second Edition, Page 495, 1943.
- 25. Special Semi-annual Contact Investigation Reports which include Clinic and Rapid Treatment Center Activity.
- 26. Journal of Venereal Disease Information, August 1945, Page 171.
- 27. Journal of Venereal Disease Information, August 1950, Page 201.
- 28. Congenital Syphilis Fact Sheet, June 1950