

A comparison of the rates of native and foreign-born admissions to public mental hospitals in Ohio during a 4½-year period tends to support earlier findings that migration rather than foreign birth per se is significant in the comparative incidence of mental disease.

Immigration and Insanity

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INFORMATION on mental illness among the foreign-born is sparse and very little is current. Indeed, in a recently published book the data in the section on nativity pertained to the period 1917-34 (1). Also, aside from gross national data derived from the decennial census of institutions, most of the detailed available information on this subject concerns admissions to mental hospitals in but three States: Minnesota (2), Massachusetts (3), and New York (4-6).

This paper reviews these early data and presents the rates at which native and foreign-born were admitted to Ohio public mental hospitals during the period 1948 to June 30, 1952.

Historical Review

In the introductory remarks of the 1880 census (7) it was stated that "The extraordinary ratio of insanity among the foreign-born has attracted wide attention." However, this report pointed out that "the question of age has a bearing upon the comparative num-

ber of the insane who are of native and of foreign birth" and that "the difference disappears, in large measure, when, instead of comparing the number of insane with the total population, we compare it with the population above the age at which insanity ordinarily occurs, that is to say above the age of 15 years. I have here put the margin very low." As a result of this simple but incomplete correction for age it was shown that "instead of the foreign insane being 2½ times as numerous, in proportion, as the native white insane, they are about 50 percent more numerous."

The 1910 census (8) also pointed out that while "the foreign-born have an unduly large representation in insane asylums" the ratios "if regarded as an index of the tendency to insanity among immigrants as compared to the native population are misleading." It then states that "the age difference probably goes further than any other factor toward explaining the contrast between the native white and the foreign-born white in respect to the proportionate numbers admitted to hospitals for the insane." Other factors it mentions as relevant are sex ratios, geographic distribution, and the degree of concentration in cities besides the migration factor and the concomitant consequence of a changed environment involving "new physical, economic, and social conditions."

However, in analyzing mental disease admission rates in Minnesota for the four decades

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from 1889 through 1929, Ødegaard reported that the standardized first admission rates among the Norwegian born were significantly higher statistically than the rates for the native-born (2). In his analysis, Ødegaard stressed the importance of initial selection and the problems of assimilation, but for each decade analyzed the difference in the standardized admission rates between the two groups decreased.

In presenting his findings regarding nativity and mental disease in Massachusetts, 1917-33,

Dayton also stated that "Early reports on the relative incidence of mental disorder in the foreign-born and in the native-born favored the native-born in a very decided manner. Later it was discovered that the greater part of the observed differences between the two nativity groups was statistical rather than actual . . ." (3).

The Massachusetts data, in which age was fully considered, showed the foreign-born to have higher first admission rates than the native-born. But as Dayton pointed out, the

Table 1. First admission rates per 100,000 to Ohio public mental hospitals of white persons, by age, sex, nativity, and residence, all diagnoses, 1948 to June 30, 1952

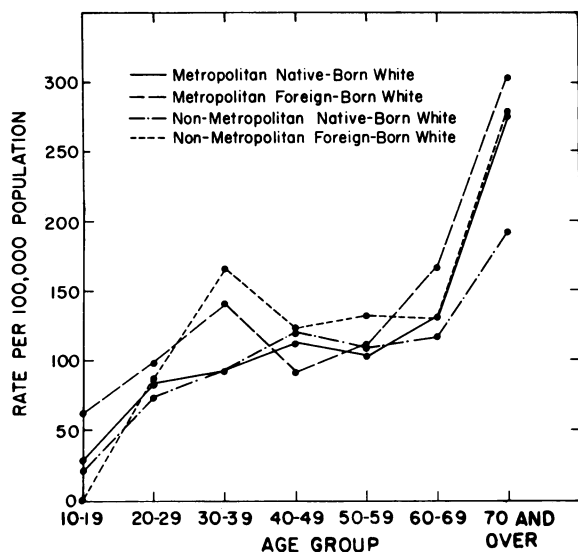
Age (in years)	White male							
	Metropolitan				Nonmetropolitan			
	Native-born		Foreign-born		Native-born		Foreign-born	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Crude total.....	7, 357	95. 5	1, 352	151. 9	4, 015	91. 4	189	159. 5
Adjusted total ¹		98. 2		119. 4		90. 8		114. 1
10-19.....	360	27. 1	6	62. 9	185	20. 9		
20-29.....	1, 368	83. 2	28	98. 7	597	74. 3	4	88. 6
30-39.....	1, 481	92. 8	79	142. 5	709	93. 1	13	166. 6
40-49.....	1, 428	113. 7	136	92. 5	772	120. 3	22	124. 5
50-59.....	980	103. 8	296	111. 1	589	110. 6	37	132. 4
60-69.....	782	133. 2	430	166. 1	502	117. 8	45	131. 4
70 and over.....	958	276. 3	377	303. 7	661	192. 3	68	279. 6

Age (in years)	White female							
	Metropolitan				Nonmetropolitan			
	Native-born		Foreign-born		Native-born		Foreign-born	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Crude total.....	6, 469	77. 9	1, 035	124. 7	2, 879	63. 1	116	106. 9
Adjusted total ¹		77. 6		111. 3		62. 9		98. 4
10-19.....	249	18. 4	7	84. 3	110	12. 7	2	103. 4
20-29.....	1, 178	64. 8	31	68. 5	486	57. 9	6	59. 7
30-39.....	1, 472	86. 8	97	157. 4	624	79. 0	10	110. 4
40-49.....	1, 110	84. 7	159	104. 9	525	79. 9	19	120. 1
50-59.....	855	86. 0	240	104. 7	388	69. 3	20	77. 7
60-69.....	662	98. 7	208	99. 6	347	75. 6	24	97. 7
70 and over.....	943	202. 0	293	234. 2	399	101. 2	35	163. 6

¹ Age-adjusted rates based on total native-born Ohio population.

NOTE: The numbers of admissions are for the entire 4½-year period; the rates are on an average annual basis.

Figure 1. Average annual first admission rates to Ohio State public mental hospitals, for white males, by age, nativity, and residence, all diagnoses, 1948 to June 30, 1952

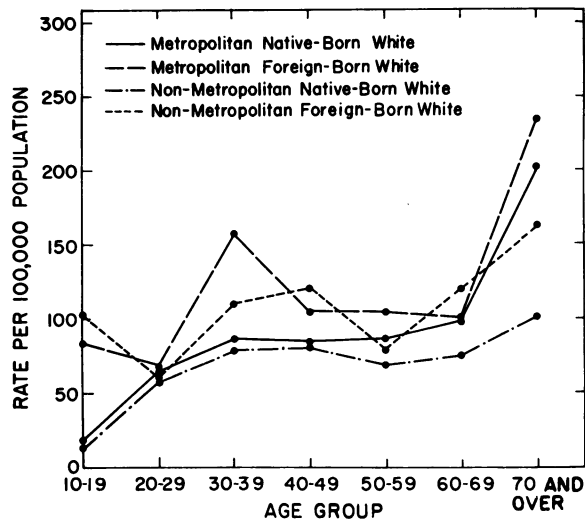


native-born had certain protections which might have tended to keep him out of the hospital. The foreign-born was not only handicapped by the absence of these protective mechanisms (familial, social, and economic) but had language difficulty as well. Another factor, although a minor one, was the greater use of private facilities by the native-born.

Malzberg, in his study of first admissions to all institutions for mental disease in New York State, 1929-31, found "that even after age differences had been eliminated, the foreign-born still had a higher rate of first admissions than the native-born, though the excess was much less than that derived solely on the basis of crude rates" (4). However, after reviewing the data from several aspects he comes to the general conclusion that the available data indicate few, if any, differences in the relative incidence of mental disease among native and foreign whites in New York State that cannot be accounted for adequately on the basis of environmental and age differentials.

In a similar study involving 1939-41 data, Malzberg and Lee minimized the importance of the overall differential of 11 percent among males. They took the 21 percent difference in age standardized rates for total psychoses in

Figure 2. Average annual first admission rates to Ohio State public mental hospitals, for white females, by age, nativity, and residence, all diagnoses, 1948 to June 30, 1952



females as evidence of an important difference in the patterns of first admissions by nativity of white females (5).

Based on the 1939-41 data, Malzberg stated that a population native to a given environment has lower rates of mental disease than the population in the same environment which is of foreign birth (6). This conclusion was qualified by the statement that the more we compare the two populations on a comparable basis, the greater is the approximation in rates of first admissions.

Ohio State Study Results

According to the 1950 census, 5.6 percent of Ohio's population was foreign-born, and 19 States had larger percentages (9). New York had the highest percentage foreign-born, 16.8; Massachusetts had 15.2 percent; and Minnesota 7.0 percent. In Ohio, the 1950 foreign-born white population numbered slightly over 440,000.

During 1948 to June 30, 1952, there were 2,692 foreign-born white first admissions to the Ohio public mental hospitals (aged 10 and over). In the same period, 20,720 native-born whites were admitted. As shown in table 1, the crude rates for the foreign-born are much

higher than those for the native-born. Age, the same factor to which attention was called in the 1880 census, appears to account for part of the disparity in these crude rates. In Ohio, for example, the median age of the foreign-born and native-born whites, was, respectively, 42 and 19 in 1880, 39 and 24 in 1910, and 57 and 30 in 1950. Nevertheless, when the 1950 rates were adjusted for age, the rates remained higher for the foreign-born, as would be expected since figures 1 and 2 and table 1 show

that for most age groups the rates were either at the same level or higher for the foreign-born.

In the New York State study, the differential in rates between the foreign-born and the native-born females was such that Malzberg and Lee stated: "The poorer showing of all foreign-born females relative to natives tends to substantiate Ødegaard's hypothesis that females make less satisfactory adjustments to migration than do males, or alternatively that female immigrants are not as well 'selected' as are male

Table 2. Number of admissions and first admission rates per 100,000 to Ohio public mental hospitals for native-born, by age, sex, color, and place of birth, all diagnoses, 1948 to June 30, 1952

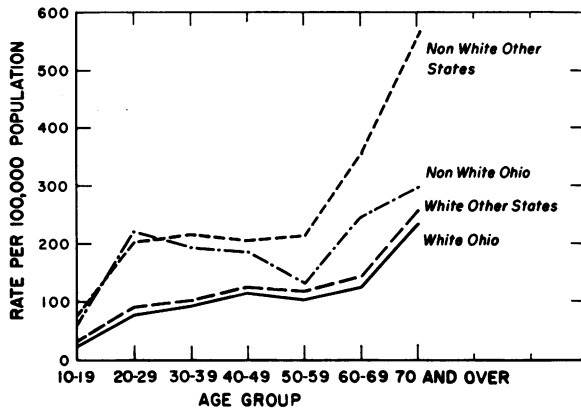
Age (in years)	Native-born males							
	White				Nonwhite			
	Ohio		Other States		Ohio		Other States	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Crude total.....	8, 153	90. 4	3, 220	109. 9	403	151. 8	1, 371	221. 0
Adjusted total ¹		93. 3		103. 7		178. 0		218. 3
10-19.....	460	24. 2	86	30. 4	65	65. 3	41	75. 3
20-29.....	1, 475	79. 0	490	88. 7	165	220. 4	241	206. 0
30-39.....	1, 538	91. 9	652	99. 2	61	195. 3	323	214. 2
40-49.....	1, 469	114. 0	732	124. 4	41	186. 3	274	204. 9
50-59.....	1, 058	103. 5	510	116. 2	28	130. 7	198	212. 8
60-69.....	921	124. 0	363	141. 0	25	242. 6	175	352. 1
70 and over.....	1, 232	232. 7	387	255. 3	18	292. 0	119	553. 2

Age (in years)	Native-born females							
	White				Nonwhite			
	Ohio		Other States		Ohio		Other States	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Crude total.....	6, 702	69. 8	2, 645	83. 8	297	105. 0	1, 023	158. 0
Adjusted total ¹		70. 5		78. 2		124. 0		155. 8
10-19.....	305	16. 1	56	18. 7	56	53. 5	37	58. 5
20-29.....	1, 242	62. 8	420	63. 8	104	126. 4	199	142. 5
30-39.....	1, 478	84. 0	619	87. 7	53	144. 1	249	156. 6
40-49.....	1, 091	80. 7	543	90. 6	33	142. 3	203	154. 7
50-59.....	866	77. 8	375	87. 4	15	92. 7	158	186. 4
60-69.....	746	88. 3	264	96. 3	15	125. 3	91	196. 6
70 and over.....	974	147. 3	368	195. 6	21	272. 1	86	370. 4

¹ Age-adjusted rates based on total native-born Ohio population.

NOTE: The numbers of admissions are for the entire 4½-year period; the rates are on an average annual basis.

Figure 3. Average annual first admission rates to Ohio public mental hospitals for native-born males, by age, color, and place of birth, all diagnoses, 1948 to June 30, 1952



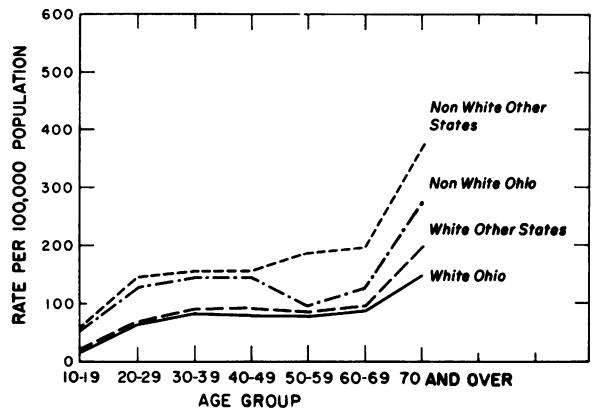
immigrants" (5). The Ohio data substantially agree with the findings of Ødegaard and Malzberg.

However, had the rates of first admission for foreign-born and native-born been alike after age adjustment, it would not have been an indication that there are no true differences in their respective incidence of mental illness. It had been mentioned earlier that there were forces, such as lack of family and language, and economic and other problems of assimilation, that might have tended to increase the rate of hospitalization among the foreign-born.

It is also conceivable that cultural differences might have tended to keep some of the foreign-born out of hospitals unless very ill. Also, screening of immigrants and deportation of others may have been more diligently carried out since the 1930's. The proof of not becoming public charges may have raised their level of socioeconomic and educational status somewhat.

Nevertheless, given the current volume of immigration, the factor foreign-born per se does not seem to warrant much attention. What should command considerable concern is the factor of migration. White and nonwhite males and females born in Ohio had lower rates than their counterparts who were born elsewhere in the United States and subsequently migrated to Ohio (table 2 and figs. 3 and 4). Malzberg and Lee in analyzing the New York State data also found that the rates for native

Figure 4. Average annual first admission rates to Ohio public mental hospitals for native-born females, by age, color, and place of birth, all diagnoses, 1948 to June 30, 1952



migrants, regardless of color or sex, are strikingly higher than those for persons born in the State (5). Despite the agreement of these two studies, replication for other areas as well as other periods of time is needed. Furthermore, as Dorothy S. Thomas stated in her introduction to "Migration and Mental Disease," such studies must be extended to include analyses of differentials between migrants and nonmigrants in areas of origin as well as in areas of destination (5).

Advantage should be taken of the 1960 census. Information regarding migrants (native-born and foreign-born) by such factors as household composition, marital status, education, and occupation could be obtained for mental patients and correlated with information obtained at the time of the 1960 census. In addition, the psychiatric diagnosis of the patients should be considered in the analysis. Such studies require large numbers of patients. It might be that several States would have to collect, in a comparable fashion, data which could be pooled and analyzed to provide this needed information about mental illness among migrants, both native- and foreign-born.

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Community Cancer Demonstration Project Grants

For the current fiscal year, Congress has appropriated \$1,500,000 for community cancer demonstration project grants. The Cancer Control Branch, within the Division of Special Health Services, Public Health Service, is administering the fund and is receiving applications from health agencies and nonprofit organizations and institutions. Additional projects may be approved during spring and summer of 1960.

Among types of projects believed to offer the best opportunities for demonstrating better ways of providing community cancer control services are:

- Professional and technical education in cytology.
- Screening female beneficiaries of medical care for cancer of the cervix.
- Selected educational projects, particularly public information and followup services, to emphasize the importance of periodic uterine cytology examinations.
- Professional educational activities emphasizing the importance of including cancer diagnostic aids in complete health examinations.
- Selected public educational projects on the desirability of and need for health maintenance examinations.
- Evaluation of effectiveness of public educational activities.
- Tumor registers collecting data of exceptional value.
- Extension and evaluation of rehabilitation programs (in cooperation with State rehabilitation agencies).

- Selected projects demonstrating effective treatment for cancer in public beneficiaries of medical care.

The types of projects suggested are not meant to exhaust all possibilities. Other worthwhile locally sponsored and locally directed demonstration projects will be considered on their own merits.

Applications are accepted from nonprofit organizations and institutions and official health agencies. The appropriate State health officer and Public Health Service regional medical director first review and process applications. The requests are then submitted to the advisory committee and the advisory council for recommendation of approval or disapproval. Formal action on applications and recommendations is taken by the chief of the Bureau of State Services, Public Health Service, to whom authority has been delegated by the Surgeon General.

Projects may be approved initially for as long as 3 years. When activities proceed satisfactorily and funds are available, assistance continues through the approved period. In special instances, assistance may include the assignment of personnel and the provision of equipment and supplies. Additional information and application forms may be obtained from the eight regional offices of the Public Health Service.

The Cancer Control Branch and its Advisory Committee believe that much can be done to reduce illness and death from cancer now, especially from cervical cancer.