ABSTRACT

Background: In Georgia, recent measures have expanded public access to naloxone-containing products like Narcan® to combat opioid-related overdose deaths. Although laypersons may legally purchase naloxone products without a prescription for use during opioid-related overdose events, barriers may remain.

Methods: We conducted an anonymous telephone survey to investigate three potential barriers to purchasing naloxone (Narcan®) in Georgia: availability, price, and working knowledge of legal requirements among pharmacy representatives. We surveyed pharmacy representatives in select Georgia counties with high volumes or high rates of poisoning deaths compared with other counties. We also compared responses among chain and non-chain representatives. Descriptive statistics are presented concerning the availability, price, and required documentation to purchase Narcan®.

Results: Representatives from all 120 pharmacies contacted completed the survey, comprising 6.8% of eligible pharmacies. Availability of Narcan® varied among counties categorized by poisoning deaths: High Rate Counties (50%; n=40), High Volume Counties (66%; n=38), and Comparison Counties (64%, n=42). Narcan® was more available in chain pharmacies (76.7%; n=73) than in non-chain pharmacies (34.0%; n=47). Mean prices for Narcan® were similar among county type: High Volume ($131.46); High Rate ($134.19); and Comparison ($124.50). However, the mean price was much lower in chain versus non-chain pharmacies ($120.91 vs. $149.72). Representatives in chain pharmacies were more likely to state that a prescription was not required to purchase Narcan® (58.9 % vs. 30.0%).

Conclusions: In Georgia, barriers related to availability, price, and dispensing requirements for Narcan® persist, decreasing the likelihood of purchase by those who may need a safe, easily administered form of naloxone. Narcan® was generally more available and cost less in chain pharmacies. Representatives in non-chain pharmacies were more likely to require a non-legally necessary prescription to sell Narcan®. Training/intervention opportunities targeting pharmacy staff may help increase layperson access to naloxone products and could ultimately prevent opioid-related overdose deaths.

Keywords: Naloxone access, pharmacy practice, opioid overdose reversal, public health law, Narcan®.

INTRODUCTION

Reports of the nation’s drug overdose crisis are ubiquitous, with opioid overdoses becoming a national public health priority in recent years. One strategy that has received wide support in combating opioid overdose deaths is to make naloxone products like Narcan®, (Naloxone HCL, Narcan - ADAPT Pharma) an opioid antagonist drug, more available to those who may witness an overdose or come into contact with overdose victims. Naloxone is a therapeutic drug overdose reversal agent commonly used by medical professionals to counteract the effects of heroin and other opiates (Sporer & Kral, 2007). Recent measures have been adopted in nearly every state to make the dissemination of naloxone to the public easier (Xu et al., 2018). The United States Surgeon General supports the increased availability of naloxone products to the public (Office of the Surgeon General, 2018) as does the Georgia Department of Public Health (Georgia Department of Public Health, 2018). A growing body of academic literature underscores the benefits of increased public access to naloxone (Cressman et al., 2017; Davis et al., 2013; Galea et al., 2006; Meyerson et al., 2018; Xu et al., 2018).

Pharmacists may represent an underutilized resource in promoting and disseminating naloxone products to those in a position of caring for overdose victims (Sisson et al., 2019). Although pharmacists have knowledge of pharmaceutical products and contact with the public, several barriers seem to limit the potential benefits of more widely disseminating naloxone products to the public (Green et al., 2015; Rudolph et al., 2018). A survey among pharmacists in West Virginia reported that only 20.4% were comfortable
selling naloxone without a prescription (Thornton et al., 2017). A Pennsylvania survey of pharmacy representatives revealed that naloxone was stocked in only 45% of stores contacted, prices ranged from $50 to $4000, and fewer than two-thirds (64%) could correctly answer questions about Pennsylvania’s naloxone standing order, which allows the purchase of naloxone products without a prescription from a medical provider. Further, staff working in national pharmacies in Pennsylvania were significantly more accurate than counterparts in smaller pharmacies in correctly answering whether a prescription was required to obtain naloxone (Graves et al., 2018). A separate study that focused on Philadelphia showed that naloxone was stocked in only 34.2% of that city’s pharmacies but 61.5% of pharmacies contacted would sell naloxone without a prescription. However, naloxone was much more available and likely to be sold without a prescription in chain stores than in independent stores and naloxone was less likely to be available in districts with elevated rates of opioid overdose deaths. Prices ranged from $119 – 150, and were higher in independent pharmacies and in planning districts with elevated rates of opioid overdose deaths (Guadamuz et al., 2019). Results from a survey of Indiana community pharmacists following implementation of a state-issued standing order allowing naloxone dispensation showed that, while 58.1% stocked naloxone, only 23.6% had actually dispensed it. Chain pharmacies in Indiana were 3.2 times as likely to stock naloxone as non-chain pharmacies (Meyerson et al., 2018). Stone and colleagues demonstrated that only 31% of pharmacies contacted in Georgia had naloxone available for same-day purchase, and chain community pharmacies were significantly more likely to carry naloxone than independent pharmacies (45% vs. 24%). Further, areas with high opioid mortality were more likely to have naloxone than areas with low mortality rates (38% vs. 24%) (Stone et al., 2019). Nguyen and colleagues surveyed pharmacists working in rural Georgia counties and reported that 54.7% stocked Narcan®, and among those who did not stock Narcan®, 75% referred the caller to a chain store. In those rural Georgia counties, the mean cash price of Narcan® was $131.04, and 47.1% of pharmacists correctly answered that a prescription was unnecessary to purchase Narcan® (Nguyen et al., 2020).

Such research suggests that low or inconsistent stocking, high prices, and a lack of knowledge of laws surrounding naloxone products limit pharmacy representatives from becoming more effective resources in battling opioid-related overdoses.

Like most states, Georgia policymakers have acted to increase layperson access to naloxone through standing orders executed on January 12, 2017, June 29, 2018, and March 6, 2019. The purpose is stated clearly:

“The purpose of this Standing Order is to facilitate the widest possible availability of naloxone among the residents of this State, to ensure that family members, friends, co-workers, first responders, schools, pain management clinics, harm reduction organizations, and any other persons or entities (“Eligible Persons or Entities”) are in a position to provide assistance to a person experiencing an opioid-related overdose through the timely administration of the opioid antagonist naloxone.”

(Kathleen E. Toomey, M.D., M.P.H., 2019)

The Georgia General Assembly enacted O.C.G.A. § 26-4-116.2 (f), requiring that “Every pharmacy in this state shall retain a copy of the standing order issued under Code Section 31-1-10” (Effective July 1, 2017). Moreover, Georgia’s Dangerous Drug Act was amended (by Emergency Rule on Naloxone 480-34–031–11 effective December 14, 2016 and by statutory amendment effective July 1, 2017) to exempt naloxone from the list of drugs that require a physician’s prescription, if the naloxone is used for drug overdose prevention and supplied by a dispenser in a specified manner (O.C.G.A. § 16-13-71, 2017). Thus, at the time of this study, Georgia pharmacists were authorized to dispense naloxone products without a prescription from a medical provider to address potential opioid overdoses.

This study examines three specific barriers related to naloxone access in Georgia: availability, price, and working knowledge among pharmacy representatives that a prescription is no longer necessary to purchase naloxone. We examine whether these barriers differ in counties that either have high poisoning death rates or high poisoning death totals when compared with controls, and whether such barriers vary by status as a chain or non-chain pharmacy. We use Narcan® as a proxy for all naloxone products, and poisoning deaths generally as a proxy for drug poisoning deaths. We are not aware of any study that has explored all three of these barriers to citizen naloxone purchase from pharmacies in Georgia in the manner described. Further, few studies have specifically examined whether such barriers differ within a state, such as in counties with high rates or volumes of drug poisoning deaths.

METHODS

We present descriptive statistics from an anonymous telephone survey of pharmacy representatives concerning three potential barriers to purchasing naloxone in Georgia: availability, price, and working knowledge that a prescription is no longer a requirement to purchase naloxone. We further examine whether such potential barriers differ in counties that either have high poisoning death rates or high poisoning death totals when measured against comparison counties, and whether such barriers vary by status as a chain or non-chain pharmacy. The Georgia State University Institutional Review Board designated this study as not Human Subject Research, thereby exempting it from review.

Using the Centers for Disease Control and Prevention Web-based Injury Statistics Query and Reporting System (WISQARS), we generated an age-adjusted map (2000 as the standard year) of poisoning deaths of all types in Georgia at the county level (Centers for Disease Control and Prevention & National Center for Injury Prevention and Control, Statistics, Programming and Economics Branch, 2013). Overall, Georgia exhibited a lower annualized,
age-adjusted poisoning death rate for 2008-2014 than the nationwide average (11.82 versus 14.45 deaths/100,000). Of 159 counties in Georgia, 76 provided data on poisoning deaths during 2008-2014. However, 42 Georgia counties reported higher poisoning death rates than the nationwide average. Certain metro counties, although not having death rates that exceeded the national average, contributed a large volume of poisoning deaths to the total number of deaths.

We divided these 76 counties with reported data into three categories:
1) “high death rate counties” (n=42) experienced poisoning death rates higher than the nationwide average from 2008 - 2014;
2) “high death volume” counties (n=20) experienced more than 100 total annual deaths for the same period; and
3) “comparison counties” (n=20) are the remaining counties in Georgia for which poisoning death data were available.

Carroll, Bartow, Paulding, Whitfield, Floyd, and Richmond Counties (n=6) meet the conditions for inclusion in either the high death rate or the high death volume categories. These 6 “dual qualifying” counties are classified as high death rate counties rather than high death volume counties in this study for better balance among pharmacy locations across categories (See Appendix: Figure 1 and Table 3). Comparisons made below support the inclusion of these dual qualifying counties within the high rate county category rather than the high volume county category.

A list of pharmacies that service each county seat was obtained from Superpages.com, an online telephone and address directory that provides pharmacy contact information by city (superpages.com, n.d.). Each pharmacy was numbered, and a random sequence generator used to designate pharmacies for contact. A total of 120 pharmacies were randomly selected without replacement and contacted by telephone from October through December, 2018, as follows:
1) high death rate counties (poisoning death rate exceeding 14.45/100,000; n=42): 40 pharmacies randomly selected without replacement from 745 pharmacies.
2) high death volume counties (more than 100 poisoning deaths from 2008 – 2014; n=14): 40 pharmacies randomly selected without replacement from 686 pharmacies.
3) comparison counties (neither high death rate nor high death volume; n=20): 40 pharmacies randomly selected to provide baseline data from 335 pharmacies.
(See Appendix, Figure 2)

Calls were made anonymously by the lead author. A call script was begun with whomever answered the phone, and continued with subsequent representatives if the first respondent transferred the call (i.e. to a supervisor or pharmacist) until the survey was complete.

Representatives were asked the following questions to test four (4) potential barriers to the acquisition of Narcan®:
- Availability of Narcan®: Do you have Narcan® nasal spray in stock?
- Price of Narcan®: How much does it cost?
- Awareness that a prescription is not required to purchase Narcan®: Can I buy it without a prescription?
- Other barriers: Are there any forms I have to fill out if I want to pay with cash?

RESULTS

Representatives from all 120 pharmacies contacted for study participation completed the survey (100% response rate). The sample represented 6.8% of the total number of pharmacies operating in Georgia (1,766) that were eligible for the study. A final review of pharmacies contacted resulted in two being removed from the high volume category and reclassified as comparison county pharmacies.

Whether Narcan® was in stock and its price

In high rate counties, 50% of pharmacies contacted had Narcan® in stock, compared with 66% of those in high volume counties and 64% of those in comparison counties. The price of Narcan® in high rate counties averaged $134.19 (Range: 71.69 to 180.00), compared with $131.46 (Range: 71.69 to 171.95) in high volume counties, and $124.50 (Range: 65.00 to 201.00) in comparison counties (See Table 1).

Requirements to purchase Narcan®

Slightly more than half the pharmacy representatives questioned in high rate counties (55%) stated that a prescription was not required for purchasing Narcan®, compared with 42% in high volume counties and 45% in comparison counties. A few pharmacy representatives in each county category either did not know, expressed uncertainty, or refused to answer whether a prescription was required to purchase Narcan® (See Table 1).

“Dual Qualifiers”: the six counties that could be categorized as either high volume or high rate counties

A total of 157 pharmacies were listed in the six counties that could have been included in either the high rate or high volume categories. Eleven (11) pharmacies from these “dual qualifying” counties were among those randomly contacted.

Stock levels of Narcan® in dual qualifying counties (45%, 5/11) were more similar to stocking percentages in the remaining high rate counties (52%, 15/29) and more dissimilar to percentages in high volume counties (66%, 25/38) and comparison counties (64%, 27/42).

The average price of Narcan® in dual qualifying counties was almost $11 more than the price of Narcan® in the remaining high rate counties (the category in which they were assigned) ($142.12 versus $131.43) and high volume
counties ($142.12 versus $131.46). In contrast, the price of Narcan® in dual qualifying counties was almost $18 higher than in comparison counties ($142.12 versus $124.50).

Accuracy in answering the prescription-requirement question among dual qualifying counties (64%, 7/11) was closer to the remaining high rate counties (52%, 15/29) than high volume counties (42%, 16/38), or comparison counties (45%, 19/42). These comparisons show that dual qualifying counties are generally more similar to the remaining counties in the high rate county category than counties in the high volume county category.

Table 1

<table>
<thead>
<tr>
<th>County Type</th>
<th>Narcan® in Stock</th>
<th>Average Price [Standard Deviation] (Range)</th>
<th>Prescription not required to purchase Narcan®</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Rate **</td>
<td>n=40</td>
<td>50% (1 N.A.)</td>
<td>134.19 [25.03] (71.69 – 180.00)</td>
</tr>
<tr>
<td>Dual Qualifiers*</td>
<td>n=11</td>
<td>45% (1 N.A.)</td>
<td>142.12 [10.83] (129.99 – 160.00)</td>
</tr>
<tr>
<td>High Rate w/ Dual Qualifiers removed</td>
<td>n=29</td>
<td>52%</td>
<td>131.43 [28.04] (71.69 – 171.95)</td>
</tr>
<tr>
<td>High Volume</td>
<td>n=38</td>
<td>66%</td>
<td>131.46 [24.70] (71.69 – 171.95)</td>
</tr>
<tr>
<td>Comparison</td>
<td>n=42</td>
<td>64%</td>
<td>124.50 [33.56] (65.00 – 201.00)</td>
</tr>
</tbody>
</table>

N.A. means “No Answer” – pharmacy representative(s) refused or could not answer
* Dual Qualifiers are a subset of the High Rate County Type
** Includes Dual Qualifiers

**Associations between barriers and chain pharmacy status**

We considered whether barriers may differ among chain pharmacies versus non-chain pharmacies. Here, “chain pharmacies” were defined as brands with more than 4 locations in Georgia (Law Insider, n.d.). The names of chain pharmacies contacted are on file with the lead author. Among those pharmacies randomly selected, chain stores constituted 47.5% (19/40) of those sampled in high rate counties, 68.4% (26/38) of those sampled in high volume counties, and 66.7% (28/42) of those sampled in comparison counties.

Across all three county categories, Narcan® was immediately available for purchase more frequently in chain pharmacies (76.7%) than in non-chain pharmacies (34.0%). In high rate counties, 68.4% of chain store pharmacies had Narcan® in stock, compared with 33.3% of non-chain pharmacies (overall average was 50%). In high volume counties, 81% of chain store pharmacies had Narcan® in stock, compared with 33.3% of non-chain stores (overall average was 66%). In comparison counties, 78.5% of chain stores had Narcan® in stock versus 35.7% of non-chain pharmacies (overall average was 64%).

Overall, prices for Narcan® nasal spray ranged from $65.00 to $201.00. However, the average chain pharmacy price statewide ($120.91) was nearly $30 less expensive than the average non-chain pharmacy price ($149.72), and remained consistently lower across all county categories. In high rate counties (overall average: $134.19), the average chain store price ($122.60) was nearly $26 lower than the average non-chain pharmacy price ($148.27). In high volume counties (overall average: $131.46), the average chain store price ($126.20) was $27 lower than the average non-chain pharmacy price ($153.37). In comparison counties (overall average: $124.50), the average chain store price ($114.48) was $35 lower than the average non-chain pharmacy price ($149.55) (See Table 2).

Contrary to current legislation and Georgia’s standing order, representatives from nearly one-half of pharmacies contacted stated that a physician’s prescription was a requirement for purchasing Narcan® (53/120). Of the remainder, representatives from 57 pharmacies stated that a prescription was not required, and those from 10 non-chain pharmacies either refused or were unable to answer the question. Representatives from chain pharmacies more often stated correctly that a prescription was not required to purchase Narcan® (58.9 % vs. 30%).
DISCUSSION

Although drug poisoning deaths in Georgia are generally lower than in the rest of the U.S. (2016: 13.28 versus 19.73/100,000), they are not distributed evenly within the state (Centers for Disease Control and Prevention & National Center for Injury Prevention and Control, Statistics, Programming and Economics Branch, 2013). In 2016, for instance, Georgia’s metropolitan areas, which contain 83% of the state’s population, suffered higher drug poisoning death rates than non-metropolitan areas (13.48 versus 12.32/100,000) (Georgia Department of Public Health, 2017). Drug overdose death rates in Georgia have also increased in recent years. From 2010 to 2017, Georgia’s overall drug poisoning deaths rose by 52%, while the population increased by 7.6% (United States Census Bureau, 2018). The percentage of opioid-related deaths among all drug overdose deaths increased from 40.1% in 2010 to 64.4% in 2017 (Georgia Department of Public Health, 2017).

This study sought to examine potential barriers that may hinder laypersons from purchasing Narcan® from pharmacies in Georgia. Analyzing how these barriers may differ among counties with higher rates or volumes of poisoning deaths and among chain and non-chain pharmacies may help policy makers facilitate the widest possible availability of naloxone among the residents of Georgia, which is the stated goal of the standing order.

As noted, pharmacies in different county categories had similar stocking rates of Narcan® (50 – 66%). This finding is consistent with studies that demonstrate that fewer than 67% of pharmacies in other states stock naloxone. However, Georgia chain store pharmacies had much higher stock rates of Narcan® than non-chain pharmacies (76.7% vs. 34.0%). Further, the mean price in chain store pharmacies was almost $30 lower than in non-chain pharmacies ($120.91 vs. 149.72), while prices for Narcan® among high rate counties, high volume counties, or comparison counties were more similar (within approximately $10). Greater stocking rates and lower prices may reflect greater purchasing power, efficiencies in distribution, or shelf space constraints within retail pharmacies.

The mean price of Narcan® statewide ($129.82) is concerning, because it may be too expensive for many potential purchasers to keep on hand in case of overdose. The lack of differences in price among county categories and relatively low stocking rates for such a potentially important product may indicate that high prices, especially in absence of health insurance, have suppressed demand. Further research may focus on Dual Qualifying counties,
where prices were highest, stock rates were lowest, and representatives most often stated that a prescription was not a requirement to purchase Narcan®.

Further research may determine whether naloxone sales differ among county categories in Georgia and whether demand for Narcan® or other naloxone products outpaces supply. Determining how often pharmacies reorder Narcan® may suggest actual distribution to potential overdose victims and witnesses to overdose. Also, many consumers may not be aware of the existence or efficacy of Narcan®, and thus may not order it from pharmacies. How commercial marketing influences prices and its consequent effects on access to life-saving prevention measures is not well understood and additional investigation may reveal effective ways to address barriers associated with the price of Narcan® (Gupta et al., 2016).

Some differences existed among pharmacy representatives questioned across county type in stating that a physician’s prescription was not required for purchasing Narcan®. However, chain store representatives were overwhelmingly more likely than non-chain store representatives to state that a physician’s prescription was not required to purchase Narcan® (58.9% vs. 30%). Further research may explore whether different training or levels of experience with Narcan® account for these dissimilarities.

Despite current legal measures designed to increase the availability of naloxone products by obviating the requirement for a doctor’s prescription, less than half those contacted stated that a physician’s prescription was not required for purchase of Narcan®. Among those who accurately stated that a prescription was not required, some mentioned other requirements for purchasing Narcan®, such as: verification that opioid medication was prescribed for the potential overdose victim, proof of identification (i.e. driver’s license), or the name and address of the purchaser. Some of those who accurately stated that a prescription was not required did not know or were unsure whether such additional requirements were necessary to purchase Narcan®. This may reflect a lack of confidence in knowledge of the current state of Georgia law, or it may relate more to pharmacy policies. Pharmacies may have certain restrictions and policies governing drug dispensation, even with a prescription, and pharmacists may even refuse to fill a prescription on moral grounds. Pharmacy policies may exist that will impose burdens on the purchase of naloxone, such as requiring a prescription despite the current state of the law or requiring a purchaser to fill out a form that requests personal information. Whether or not non-chain pharmacy policies differ from chain store pharmacy policies surrounding dispensation of Narcan® may be the subject of further research.

Pharmacy policies that require a physician’s prescription run counter to the stated goal of Georgia’s Standing Order for Prescription of Naloxone for Overdose Prevention, and also the current policy goals of the Georgia General Assembly and of the United States Surgeon General. Existing barriers to the purchase of naloxone products like Narcan® reduce the likelihood that those who may need a safe, easily administered form of naloxone will seek to obtain the product.

Limitations

This study has several limitations worth noting. The cross-sectional survey design limits conclusions that can be drawn regarding ongoing access, pharmacy representative knowledge, and prices of Narcan®. We made several efforts to mimic the process that a layperson might use in contacting a pharmacy for naloxone, which may limit the generalizability of the results. The lead author made all phone calls anonymously, following the same script. Other callers could receive different responses. We used an online telephone number service to obtain a list of pharmacies for random selection rather than seek a list of pharmacies from the Georgia Board of Pharmacy, which may have omitted some Georgia pharmacies from inclusion. We began the call sequence with whomever answered the phone rather than initially requesting a pharmacist or supervisor. Often our calls were passed to a pharmacist or person more familiar with Narcan®, but it is unknown whether any survey respondent possessed greater or lesser knowledge than others working at each pharmacy contacted. We also must assume that pharmacy representatives honestly and accurately reported information regarding price and availability of Narcan®. Despite these shortcomings, we believe that the information gathered would reflect the experience that a layperson would have in seeking information directly from local pharmacies in Georgia.

We assumed that Narcan® would serve as a suitable proxy for other naloxone products referenced in Georgia’s Standing Order and in recent legislation. Narcan® is a form of naloxone that is intra-nasally administered, requires little training for its use, and is preferable to laypersons over injectable forms of naloxone (Dunn et al., 2018; Freeman et al., 2018). The lower price of Narcan® also makes it a more realistic product for the study of barriers to laypersons in purchasing naloxone. At the time of this study, Evzio®, a competing, auto-injectable brand, cost several thousand dollars without a coupon (goodrx.com, 2019). Further, the Georgia Department of Public Health encourages the distribution and use of Narcan® (Georgia Department of Public Health, 2018).

Information on prices obtained does not account for insurance reimbursement. While health insurance may cover all or part of the cost of Narcan®, we believe that some purchasers may prefer not to file a claim for insurance reimbursement because of the stigma associated with drug overdose or because of fears that such a claim may result in increased health insurance premiums.

The study design relied in part upon data from the CDC covering 2008-2014. Because this dataset lacked data for drug poisoning deaths, we used poisoning deaths as a proxy for drug poisoning deaths. Further, the background dataset only provided data for 76 out of Georgia’s 159 counties. Counties with unreported or suppressed data may differ
null
APPENDIX

Figure 1
Georgia Counties Categorized by Poisoning Deaths: 2008 - 2014

[Diagram showing Georgia counties categorized by poisoning deaths from 2008 to 2014]
Figure 2
Distribution of Pharmacies Contacted
### Georgia counties by county type


*Dual qualifying counties +++ (n=6): Bartow, Carroll, Floyd, Paulding, Richmond, Whitfield

#### Comparison counties++++ (n=20): Baldwin, Bulloch, Camden, Clarke, Colquitt, Columbia, Dougherty, Effingham, Fayette, Habersham, Harris, Houston, Jones, Laurens, Liberty, Lowndes, Newton, Oconee, Rockdale, Toombs


+High death rate counties (>14.45/100,000 poisoning deaths for 2008-2014). Dual qualifying counties included in analyses.
++ High death volume counties (>100 poisoning deaths for 2008-2014). Dual qualifying counties not included in analyses.
+++ Dual qualifying counties appear in both high rate and high volume counties because they qualify for inclusion in either category, but are included in high rate county category for analyses.
++++ Comparison counties: 20 remaining counties that reported the number of poisoning deaths but did not meet either high death rate or high death volume county characteristics.

All data downloaded from cdc.com WISQARS 6/28/18
Age-adjusted Death Rates per 100,000 Population; Standard Year = 2000.

Poisoning, All Intents, All Races, All Ethnicities, Both Sexes, All Ages, Reports include unknown ages.

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