2023 Controlled Substances Reporting System Annual Report

NC GS 90-113.75B Amended by Session Law 2017-74, Section 12



Report to the

Joint Legislative Oversight Committee on Health and Human Services

North Carolina Medical Board

North Carolina Board of Podiatry Examiners

North Carolina Board of Nursing

North Carolina Dental Board

North Carolina Veterinary Medical Board

North Carolina Board of Pharmacy

By

North Carolina Department of Health and Human Services

July 19, 2023

INTRODUCTION

G.S. § 90-113.75B Annually on February 1, beginning February 1, 2019, the Department shall report to the Joint Legislative Oversight Committee on Health and Human Services, the North Carolina Medical Board, the North Carolina Board of Podiatry Examiners, the North Carolina Board of Nursing, the North Carolina Dental Board, the North Carolina Veterinary Medical Board, and the North Carolina Board of Pharmacy on data reported to the controlled substances reporting system.

BACKGROUND

G.S. § 90-113.75B requires an annual report to the General Assembly and licensing boards (as specified in the introduction above) to be delivered on February 1st of each year beginning in 2019. The report must include at least all of the following information about targeted controlled substances reported to the system during the preceding calendar year:

- (1) The total number of prescriptions dispensed, broken down by Schedule.
- (2) Demographics about the ultimate users to whom prescriptions were dispensed.
- (3) Statistics regarding the number of pills dispensed per prescription.
- (4) The number of ultimate users who were prescribed a controlled substance by two or more practitioners.
- (5) The number of ultimate users to whom a prescription was dispensed in more than one county.
- (6) The categories of practitioners prescribing controlled substances and the number of prescriptions authorized by each category of practitioner. For the purpose of this subdivision, medical doctors, surgeons, palliative care practitioners, oncologists and other practitioners specializing in oncology, pain management practitioners, practitioners who specialize in hematology, including the treatment of sickle cell disease, and practitioners who specialize in treating substance use disorder shall be treated as distinct categories of practitioners.
- (7) Any other data deemed appropriate and requested by the Joint Legislative Oversight Committee on Health and Human Services, the North Carolina Medical Board, the North Carolina Board of Podiatry Examiners, the North Carolina Board of Nursing, the North Carolina Dental Board, the North Carolina Veterinary Medical Board, or the North Carolina Board of Pharmacy.

DATA COLLECTION AND EXPLANATORY NOTES

Pharmacies in North Carolina are responsible for submitting data on any Schedule II-V controlled substances dispensed no later than the close of the next business day after the prescription is delivered. The data comes in a standard American Society for Automation in Pharmacy (ASAP) format, which includes details on the transaction such as the patient, prescriber, and pharmacy.

The quality of the prescription data is dependent on the accuracy of pharmacist submissions. Prescriptions are constantly being added and modified within the system, so the values in this report will change slightly with time. Prescriber specialty (Exhibit 6) is based on self-reported specialties in the National Plan and Provider Enumeration System (NPPES), the Drug Enforcement Agency (DEA), the North Carolina Medical Board, and the Controlled Substances Reporting System (CSRS).

Exhibit 7, Number of Users of the NC CSRS, was added to this report showing the number of searches and active users by role in 2022.

EXHIBITS AND NOTES

Exhibit 1: Prescriptions by Schedule

In total, 16,153,455 controlled substance prescriptions were dispensed in 2022¹. In 2021, 16,529,272 prescriptions for controlled substances were dispensed. This is a 2% decrease. There has been a decline in the dispensation of all controlled substances for human patients. The largest decline has been seen in the number of Schedule IV controlled substances dispensed. Schedule II controlled substances were the most dispensed in 2022, accounting for 47% of all controlled substance dispensations. Compared to 2021, the number of Schedule II controlled substances dispensed remained similar to the previous year and accounts for a slightly higher percentage of all controlled substances dispensed. This is followed by prescription dispensations in Schedule IV, accounting for 40% of all controlled substance prescriptions dispensed. The most common type of drugs in Schedule II and Schedule IV are opioids and benzodiazepines respectively. See Exhibit 6 for further information.

In 2022, the proportion of human prescriptions listed as uncategorized was 0.8% the same as the previous year. The proportion of veterinary prescriptions listed as uncategorized was 14%, almost the same rate reported in 2021. This can be attributed to a variety of systemic factors such as the formal classification of new products and improved data systems to capture information.

| Table 1.1 - Total Prescriptions by Schedule in 2022 | | | | | |
|---|------------|------------------|------------|--|--|
| Schedule | Human Rx | Veterinary Rx | Total | | |
| II | 7,496,694 | 19,141 | 7,515,835 | | |
| III | 1,291,017 | 1,944 | 1,292,961 | | |
| IV | 6,337,350 | 95,318 | 6,432,668 | | |
| V | 757,495 | 2,723 | 760,218 | | |
| Data | | | | | |
| Missing | 132,994 | 18,779 | 151,773 | | |
| Total | 16,015,550 | 137,905 | 16,153,455 | | |

Schedule II substances are currently recognized for medical use but have a high potential for abuse, which may lead to severe psychological or physical dependence. Examples include Hydrocodone, Oxycodone, Fentanyl, Amphetamine Salts and Cocaine.

Schedule III substances have a potential for abuse that is less than schedule II and may lead to moderate dependence. Examples include Buprenorphine, Ketamine, Tylenol with codeine, Testosterone, and Anabolic Steroids.

Schedule IV substances have a lower potential for abuse compared to schedule III. Examples include benzodiazepines such as alprazolam (Xanax®), carisoprodol (Soma®), clonazepam (Klonopin®), clorazepate (Tranxene®), diazepam (Valium®).

¹ This data is accurate as of 15 January 2023. Some variation may occur due to late submissions.

Schedule V substances have lower potential for abuse than Schedule IV and consist of preparations containing limited quantities of certain narcotics and are generally used for antidiarrheal, antitussive, and analgesic (pain relief) purposes. Examples include Robitussin AC, Lomotil, and Lyrica.

Exhibit 2: Demographics

The data has been aggregated by two demographic categories: Counties (Table 2.1) and Age Group and Gender (Table 2.3). These tables contain a combination of human and veterinary prescriptions due to the small numbers in the veterinary category. This count of unique patients may differ from the sum of all categories because patients may have moved between counties during the reporting period causing them to be indicated in more than one county.

It is noted that Mecklenburg and Chowan have the smallest controlled substance prescription per patient ratio of all North Carolina counties (4.94 and 4.96 prescriptions per patient respectively) and Richmond and Rutherford have the highest (7.05 prescriptions per patient respectively). See Table 2.1 below. Swain has the highest rate of prescriptions per 1,000 residents (2,743.07 per 1,000).

| NC County | Prescriptions | Patients | Rx per Patient | Rx per 1,000 population |
|-----------|---------------|----------|-------------------|----------------------------|
| Alamance | 226,779 | 41,947 | 5.41 | 1,269.79 |
| Alexander | 75,903 | 10,852 | 6.99 | 1,935.86 |
| Alleghany | 19,712 | 3,517 | 5.60 | 1,699.60 |
| Anson | 31,384 | 6,032 | 5.20 | 1,241.01 |
| Ashe | 51,945 | 7,784 | 6.67 | 1,809.93 |
| Avery | 30,059 | 5,045 | 5.96 | 1,667.17 |
| Beaufort | 101,202 | 14,725 | 6.87 | 2,130.34 |
| Bertie | 28,595 | 5,243 | 5.45 | 1,458.85 |
| Bladen | 55,845 | 8,490 | 6.58 | 1,626.28 |
| Brunswick | 254,585 | 43,603 | 5.84 | 1,665.25 |
| Buncombe | 403,213 | 66,629 | 6.05 | 1,476.80 |
| Burke | 157,641 | 23,493 | 6.71 | 1,702.39 |
| Cabarrus | 319,733 | 53,696 | 5.95 | 1,423.40 |
| Caldwell | 173,671 | 25,461 | 6.82 | 2,053.50 |
| Camden | 12,495 | 2,274 | 5.49 | 1,147.38 |
| Carteret | 138,575 | 20,785 | 6.67 | 1,908.51 |
| Caswell | 19,237 | 2,921 | 6.59 | 812.85 |
| Catawba | 317,150 | 50,130 | 6.33 | 1,951.38 |
| Chatham | 65,482 | 11,516 | 5.69 | 806.87 |
| Cherokee | 63,492 | 9,144 | 6.94 | 2,074.29 |

 Table 2.1 - Number of Controlled Substance Prescriptions Dispensed by County of Patient Residence
 in 2022

| NC County | Prescriptions | Patients | Rx per Patient | Rx per 1,000 population |
|------------|---------------|----------|-------------------|----------------------------|
| Chowan | 19,055 | 3,841 | 4.96 | 1,363.31 |
| Clay | 24,490 | 3,754 | 6.52 | 1,969.28 |
| Cleveland | 207,993 | 31,361 | 6.63 | 2,058.66 |
| Columbus | 117,222 | 17,197 | 6.82 | 2,085.06 |
| Craven | 182,139 | 29,056 | 6.27 | 1,746.37 |
| Cumberland | 440,375 | 76,318 | 5.77 | 1,317.92 |
| Currituck | 24,285 | 4,200 | 5.78 | 843.00 |
| Dare | 58,897 | 10,451 | 5.64 | 1,548.37 |
| Davidson | 254,950 | 39,751 | 6.41 | 1,467.71 |
| Davie | 85,367 | 13,457 | 6.34 | 1,893.01 |
| Duplin | 67,179 | 12,057 | 5.57 | 1,123.41 |
| Durham | 318,866 | 62,524 | 5.10 | 967.79 |
| Edgecombe | 71,488 | 12,899 | 5.54 | 1,370.26 |
| Forsyth | 570,038 | 100,550 | 5.67 | 1,461.39 |
| Franklin | 88,816 | 15,736 | 5.64 | 1,226.59 |
| Gaston | 468,541 | 67,570 | 6.93 | 2,075.29 |
| Gates | 9,329 | 1,714 | 5.44 | 764.42 |
| Graham | 16,930 | 2,523 | 6.71 | 1,949.11 |
| Granville | 66,360 | 11,726 | 5.66 | 1,042.99 |
| Greene | 17,771 | 3,355 | 5.30 | 844.27 |
| Guilford | 737,862 | 133,541 | 5.53 | 1,323.17 |
| Halifax | 78,398 | 13,069 | 6.00 | 1,564.17 |
| Harnett | 172,890 | 27,409 | 6.31 | 1,220.98 |
| Haywood | 119,274 | 17,984 | 6.63 | 1,841.05 |
| Henderson | 186,390 | 31,944 | 5.83 | 1,522.12 |
| Hertford | 28,212 | 5,042 | 5.60 | 1,175.11 |
| Hoke | 56,354 | 9,836 | 5.73 | 973.67 |
| Hyde | 7,265 | 1,217 | 5.97 | 1,421.72 |
| Iredell | 346,426 | 55,474 | 6.24 | 1,829.96 |
| Jackson | 59,439 | 9,439 | 6.30 | 1,295.59 |
| Johnston | 258,999 | 44,010 | 5.89 | 1,153.21 |
| Jones | 20,352 | 3,110 | 6.54 | 1,996.08 |
| Lee | 116,219 | 18,732 | 6.20 | 1,827.11 |
| Lenoir | 77,233 | 14,435 | 5.35 | 1,400.47 |
| Lincoln | 163,197 | 25,769 | 6.33 | 1,799.17 |
| Macon | 56,126 | 10,090 | 5.56 | 1,489.23 |

| NC County | Prescriptions | Patients | Rx per Patient | Rx per 1,000 population |
|--------------|---------------|----------|-------------------|----------------------------|
| Madison | 33,624 | 5,351 | 6.28 | 1,441.48 |
| Martin | 41,243 | 6,594 | 6.25 | 1,807.63 |
| McDowell | 79,210 | 12,445 | 6.36 | 1,670.25 |
| Mecklenburg | 1,206,702 | 244,278 | 4.94 | 1,023.92 |
| Mitchell | 30,829 | 4,514 | 6.83 | 2,017.34 |
| Montgomery | 33,916 | 6,083 | 5.58 | 1,220.00 |
| Moore | 144,472 | 25,718 | 5.62 | 1,357.32 |
| Nash | 139,387 | 23,901 | 5.83 | 1,446.40 |
| New Hanover | 399,558 | 65,749 | 6.08 | 1,619.60 |
| Northampton | 23,769 | 4,352 | 5.46 | 1,195.02 |
| Onslow | 268,840 | 41,966 | 6.41 | 1,284.23 |
| Orange | 188,419 | 34,277 | 5.50 | 1,242.54 |
| Pamlico | 16,339 | 2,810 | 5.81 | 1,227.02 |
| Pasquotank | 50,712 | 9,829 | 5.16 | 1,279.57 |
| Pender | 106,637 | 17,048 | 6.26 | 1,594.38 |
| Perquimans | 18,531 | 3,466 | 5.35 | 1,356.69 |
| Person | 58,964 | 9,941 | 5.93 | 1,444.35 |
| Pitt | 273,432 | 44,358 | 6.16 | 1,489.67 |
| Polk | 26,627 | 4,437 | 6.00 | 1,201.58 |
| Randolph | 195,560 | 32,273 | 6.06 | 1,325.00 |
| Richmond | 92,950 | 13,182 | 7.05 | 2,073.90 |
| Robeson | 255,228 | 37,192 | 6.86 | 1,971.24 |
| Rockingham | 187,886 | 27,368 | 6.87 | 2,045.42 |
| Rowan | 238,599 | 36,388 | 6.56 | 1,656.57 |
| Rutherford | 134,120 | 19,037 | 7.05 | 1,922.62 |
| Sampson | 94,899 | 15,940 | 5.95 | 1,465.92 |
| Scotland | 64,420 | 9,472 | 6.80 | 1,808.13 |
| Stanly | 113,846 | 18,016 | 6.32 | 1,744.77 |
| Stokes | 96,711 | 14,073 | 6.87 | 2,090.33 |
| Surry | 151,096 | 22,881 | 6.60 | 2,063.25 |
| Swain | 37,997 | 5,433 | 6.99 | 2,743.07 |
| Transylvania | 60,974 | 9,613 | 6.34 | 1,675.16 |
| Tyrrell | 4,524 | 824 | 5.49 | 1,062.22 |
| Union | 313,989 | 58,493 | 5.37 | 1,234.10 |
| Vance | 64,174 | 11,038 | 5.81 | 1,382.52 |
| Wake | 1,452,939 | 278,231 | 5.22 | 1,261.05 |

| NC County | Prescriptions | Patients | Rx per Patient | Rx per 1,000 population |
|--------------|---------------|-----------|-------------------|----------------------------|
| Warren | 16,528 | 3,108 | 5.32 | 840.65 |
| Washington | 19,168 | 3,222 | 5.95 | 1,621.66 |
| Watauga | 51,938 | 9,238 | 5.62 | 860.00 |
| Wayne | 159,513 | 28,817 | 5.54 | 1,244.56 |
| Wilkes | 122,744 | 19,020 | 6.45 | 1,727.16 |
| Wilson | 116,594 | 19,405 | 6.01 | 1,394.90 |
| Yadkin | 78,262 | 11,505 | 6.80 | 2,043.45 |
| Yancey | 34,719 | 5,157 | 6.73 | 1,814.71 |
| Out of State | 703,184 | 157,619 | 4.46 | |
| Unspecified | 8,257 | 1,397 | 5.91 | |
| Total | 16,153,455 | 2,789,395 | 5.79 | 1,485.56 |

 Table 2.2- Summary of North Carolina Dispensing Metrics in 2021 and 2022

| | 2021 | | | | 2022 | |
|-------------------------|-----------------|------------------|------------|-----------------|------------------|------------|
| Dispensing Metrics | Lowest Value | Highest Value | Total | Lowest Value | Highest Value | Total |
| Prescriptions | 4,851 | 1,431,992 | 15,850,314 | 4,524 | 1,452,939 | 15,450,271 |
| Patients | 877 | 273,442 | 2,666,607 | 824 | 278,231 | 2,631,776 |
| Rx per patient | 4.92 | 7.40 | 5.94 | 4.94 | 7.06 | 5.79 |
| Rx per 1,000 population | 784.05 | 2,841.36 | 1,537.11 | 764.42 | 2,743.07 | 1,486.56 |

There is a decrease in the total number of prescriptions, prescriptions per patient and the prescriptions per 1,000 population from 2021 to 2022. The information in Table 2.2 excludes Out of State prescriptions and patients.

| Age Range | Male | Female | Unknown | Total |
|-----------|-----------|-----------|---------|------------|
| 0-9 | 243,609 | 118,897 | 6,208 | 368,714 |
| 10-19 | 526,963 | 376,873 | 5,442 | 909,278 |
| 20-29 | 408,878 | 660,254 | 3,800 | 1,072,932 |
| 30-39 | 784,660 | 1,294,972 | 6,061 | 2,085,693 |
| 40-49 | 905,620 | 1,588,231 | 6,976 | 2,500,827 |
| 50-59 | 1,207,182 | 1,953,648 | 8,679 | 3,169,509 |
| 60-69 | 1,297,431 | 1,896,734 | 5,985 | 3,200,150 |
| 70-79 | 804,928 | 1,196,759 | 2,916 | 2,004,603 |
| 80+ | 276,261 | 564,339 | 1,130 | 841,730 |
| Unknown | 0 | 2 | 17 | 19 |
| Total | 6,455,532 | 9,650,709 | 47,214 | 16,153,455 |

Table 2.3- Number of Prescriptions Dispensed by Age and Gender in 2022

The highest volume of controlled substance prescriptions dispensed occur from age 30 to 69. The steepest increase occurs between the age groups 20-29 and 30-39, with an approximate 96% increase for females and 92% increase for males. The number of controlled substance prescriptions dispensed continues to increase from that point up until 60-69, after which the numbers significantly decline, approximately 37% for males and females. Compared to 2021, the number of controlled substance prescriptions dispensed in these age ranges decreased significantly, except for the 70-79 age group which had a slight increase of 1%. By gender, females consistently have a higher number of dispensed prescriptions for controlled substances than males beginning at the 20-29 age group continuing through the 80+ age group. Approximately 60% of controlled substance prescriptions are dispensed to females.

Exhibit 3: Pill Statistics

The classification of controlled substance with the highest number of prescriptions dispensed in 2022 was Opioids, then the category No CDC Class (e.g., Phentermine, Pregabalin, Testosterone), and then Benzodiazepines. (Table 3.1 below). No CDC Class denotes that the Center for Disease Control does not have a classification on file for the drug in question. Most controlled substance prescriptions (48%) are dispensed in quantities of 30 pills or less. The category No CDC Class was the most dispensed controlled substance in a 1-30 and 31-60 day quantity. Opioids were the most dispensed controlled substance for quantities greater than 60 days.

| Quantity Range | Benzo | Muscle Relaxant | Opioid | Sedative | Stimulant | No CDC Class | Total |
|-------------------|-----------|--------------------|-----------|----------|-----------|-----------------|------------|
| 1-30 | 1,129,821 | 809 | 2,094,666 | 763,646 | 1,577,332 | 2,241,721 | 7,807,995 |
| 31-60 | 665,150 | 697 | 1,034,901 | 24,461 | 356,648 | 1,154,804 | 3,236,661 |
| 61-90 | 376,137 | 735 | 823,369 | 77,461 | 123,371 | 633,453 | 2,034,526 |
| 91-120 | 73,590 | 253 | 852,216 | 208 | 17,487 | 162,881 | 1,106,635 |
| 121-150 | 9,712 | 20 | 116,939 | 634 | 3,565 | 20,608 | 151,478 |
| 151-180 | 24,341 | 63 | 152,881 | 652 | 9,769 | 85,421 | 273,127 |
| 181+ | 12,230 | 59 | 59,405 | 26 | 2,865 | 43,894 | 118,479 |
| Not Pills | 19,509 | 0 | 553,425 | 195 | 14,298 | 837,057 | 1,424,484 |
| Data Missing | 9 | 0 | 24 | 2 | 0 | 35 | 70 |
| | 2,310,499 | 2,636 | 5,687,826 | 867,285 | 2,105,335 | 5,179,874 | 16,153,455 |

Table 3.1 – Pill Quantity by Classification

No CDC Class - The Center for Disease Control (CDC) does not have a classification on file for the drug

Exhibit 4: Patients with Multiple Prescribers

The data indicates that 56.83% of patients saw one prescriber for their dispensed controlled substances. This is similar to the percentage noted in the 2021 data (57.11%). Pet and animal owners were more likely to receive controlled substance prescriptions for their animals from one veterinarian.

| Prescribers | Patients | Percentage |
|-------------|-----------|------------|
| 1 | 1,552,050 | 56.83% |
| 2 | 631,785 | 23.13% |
| 3 | 286,074 | 10.47% |
| 4 | 133,924 | 4.90% |
| 5 | 63,589 | 2.33% |
| 6 | 31,184 | 1.14% |
| 7 | 15,203 | 0.56% |
| 8 | 8,011 | 0.29% |
| 9 | 4,168 | 0.15% |
| 10+ | 5,196 | 0.19% |
| Total | 2,731,184 | |

Table 4.1 Prescriber counts (human patients)

| Prescribers | Patients | Percentage |
|-------------|----------|------------|
| 1 | 50,533 | 85.18% |
| 2 | 6,686 | 11.27% |
| 3 | 1,601 | 2.70% |
| 4 | 398 | 0.67% |
| 5 | 82 | 0.14% |
| 6 | 22 | 0.04% |
| 7 | 3 | 0.01% |
| 8 | 1 | 0.00% |
| 9 | 0 | 0.00% |
| 10+ | 1 | 0.00% |
| Total | 59,327 | • |

Table 4.2 Prescriber counts (Veterinary)

Exhibit 5: Patients with Multiple County Dispensing

The largest percentage of patients had controlled substance prescriptions dispensed in only one county (Tables 5.1 and 5.2 below). There was an increase in the percentage of human patients receiving controlled substance prescriptions in one county from 2021 to 2022. The data remained consistent with the patterns observed in 2021, that most patient's controlled substances were dispensed within only one county.

| Table 5.1 - Dispenser Counties |
|--------------------------------|
| (Human nationts) |

| (Human patients) | | | | | |
|------------------|-----------|------------|--|--|--|
| Counties | Patients | Percentage | | | |
| 1 | 2,481,750 | 90.87% | | | |
| 2 | 222,001 | 8.13% | | | |
| 3 | 24,531 | 0.90% | | | |
| 4 | 2,559 | 0.09% | | | |
| 5 | 296 | 0.01% | | | |
| 6 | 40 | 0.00% | | | |
| 7 | 4 | 0.00% | | | |
| 8 | 1 | 0.00% | | | |
| 9 | 1 | 0.00% | | | |
| 10+ | 1 | 0.00% | | | |
| Total | 2,731,184 | • | | | |

| Table 5.2 - Dispenser Counties |
|--------------------------------|
| (Votorinary nationts) |

| (veterinary patients) | | | | | | | |
|-----------------------|----------|------------|--|--|--|--|--|
| Counties | Patients | Percentage | | | | | |
| 1 | 58,983 | 99.42% | | | | | |
| 2 | 340 | 0.57% | | | | | |
| 3 | 2 | 0.00% | | | | | |
| 4 | 2 | 0.00% | | | | | |
| 5 | 0 | 0.00% | | | | | |
| 6 | 0 | 0.00% | | | | | |
| 7 | 0 | 0.00% | | | | | |
| 8 | 0 | 0.00% | | | | | |
| 9 | 0 | 0.00% | | | | | |
| 10+ | 0 | 0.00% | | | | | |
| Total | 59,327 | • | | | | | |

Exhibit 6: The categories of practitioners prescribing controlled substances and the number of prescriptions authorized by each category of practitioner

Of the identified specialties, the largest categories for both controlled substance prescriptions and patients are Other followed by Medical Doctor (Table 6.1 below). These two specialties account for 55% (*Other*) and 39% (*Medical Doctor*) of all controlled substances prescribed and dispensed. Dentists are the third most frequent prescribers of controlled substances.

Of the identified specialties, Substance Use Disorder² and Pain Management provide the highest prescription rate per patient compared to other specialties. Dentists have the lowest rate of prescriptions per patient.

| Specialty | Prescriptions | Prescriptions Patients | |
|------------------------|---------------|------------------------|------|
| Dentist | 290,125 | 223,988 | 1.30 |
| Hematology | 8,117 | 2,478 | 3.28 |
| Medical Doctor | 6,275,791 | 1,326,156 | 4.73 |
| Oncology | 66,317 | 19,961 | 3.32 |
| Pain Management | 241,594 | 45,545 | 5.30 |
| Palliative Care | 22,504 | 6,334 | 3.55 |
| Substance Use Disorder | 28,072 | 4,230 | 6.64 |
| Veterinary | 136,556 | 59,011 | 2.31 |
| Other+ | 8,910,671 | 1,719,828 | 5.18 |
| Unspecified | 173,708 | 51,218 | 3.39 |
| Total* | 16,153,455 | 2,789,395 | 5.79 |

Table 6.1 – Number of controlled substance prescriptions dispensed by prescriber specialty

+Specialty other than those in this list (e.g., Nurse Practitioner, Prescribing Pharmacist, et. al.)

*This is the total of unique patients and differs from the sum of all categories because unique patients may see more than one practitioner specialty.

Opioids, based upon the 2022 data, continue to be the most prescribed and dispensed controlled substance overall and across most specialties. Drugs falling into the No CDC class and Benzodiazepines are the second and third most prescribed and dispensed controlled substances (Table 6.2).

² The classification of Substance Use Disorder specialty contains data from prescriptions dispensed at a pharmacy by a patient and does not include data from Substance Use Treatment services that dispense medications on site or less than 48 hours supply.

| Specialty | Benzo | Opioid | Muscle Relaxant | Stimulant | Sedative | No CDC Class | Total |
|---------------------------|-----------|-----------|--------------------|-----------|----------|-----------------|------------|
| Dentist | 41,847 | 213,038 | 13 | 283 | 329 | 34,615 | 290,125 |
| Hematology | 706 | 5,205 | 0 | 57 | 243 | 1,906 | 8,117 |
| Medical Doctor | 996,526 | 1,901,280 | 1,291 | 762,525 | 470,513 | 2,143,656 | 6,275,791 |
| Oncology | 6,888 | 40,185 | 1 | 582 | 1,866 | 16,795 | 66,317 |
| Pain Management | 7,295 | 191,115 | 116 | 1,868 | 1,718 | 39,482 | 241,594 |
| Palliative Care | 3,953 | 12,764 | 0 | 114 | 160 | 5,513 | 22,504 |
| Substance Use Disorder | 1,326 | 19,874 | 0 | 1,794 | 384 | 4,694 | 28,072 |
| Veterinary | 13,726 | 17,373 | 0 | 111 | 22 | 105,324 | 136,556 |
| Other+ | 1,215,191 | 3,232,333 | 1,190 | 1,318,043 | 382,800 | 2,761,114 | 8,910,671 |
| Unspecified | 23,041 | 54,659 | 25 | 19,958 | 9,250 | 66,775 | 173,708 |
| Total | 2,310,499 | 5,687,826 | 2,636 | 2,105,335 | 867,285 | 5,179,874 | 16,153,455 |

Table 6.2 – Number of prescriptions dispensed by prescriber specialty and drug class

[^]No CDC Class – The Center for Disease Control (CDC) does not have a classification on file for the drug +Specialty other than those in this list (e.g., Nurse Practitioner, Prescribing Pharmacist, et. al.)

Exhibit 7: Number of Users of the NC CSRS

The North Carolina Controlled Substances Reporting system was accessed by 49,307 practitioners and pharmacists in 2022 resulting in over 3 million total searches. This is a slight decrease from 2021 when 52,824 practitioners and pharmacists accessed prescription histories and other clinical diagnosis tools to assist in prescribing and dispensing decisions.

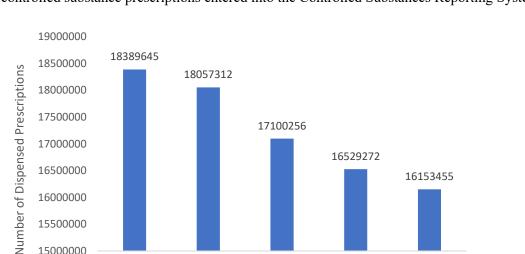
Active Searches per Role **Total Searches** Active User Users Prescriber 39,501 2,176,659 55.10 Pharmacist 9,806 1,132,944 115.54 Other 345 4,389 12.72 Total 49,651 3,313,992 66.75

Table 7.1- Number of Searches and Active Users by Role in 2022

Summary and Discussion

15500000

15000000



2020

In 2022, over 16 million dispensed controlled substance prescriptions were entered into the North Carolina Controlled Substances Reporting System. There has been a significant decline in the number of dispensed controlled substance prescriptions entered into the Controlled Substances Reporting System since 2018.

Figure 1 Annual Trend in Controlled Substances Dispensed

2018

2019

Year

The 2021 annual report reflected the effect of the COVID-19 pandemic upon the controlled substances reporting system data, resulting in fewer controlled substances being prescribed and dispensed due to fewer individuals seeking medical care during this period. The 2022 data shows a continued decline in the overall number of controlled substances being prescribed and dispensed compared to the prior year, even with COVID-19 restrictions lifted.

2021

2022

The data reflected herein is consistent with the trends found in the previous year's report, including opioids being the most prominent controlled substance being dispensed. However, the total number of opioids dispensed decreased 0.7% from the data reported in the 2021 Annual Report. When compared to the total number of dispensed Opioids from the 2019 Annual Report (7,181,632 opioids) the number of dispensed opioids in 2022 have decreased by 21%. This data indicates trends that the overall amount of opioid prescribing is decreasing, future reports will continue to follow these trends carefully.

The continued decline in the total number of prescribed substances dispensed from 2022 to 2023 indicates additional progress in achieving goals established in the NC Department of Health and Human Services 2021-2023 Strategic Plan. Goal #4 Turn the tide on North Carolina's opioid and substance use crisis, measures the number of people receiving prescribed opioids as a metric for success. The 2022 data supports an overall decrease in opioid prescribing and dispensing in North Carolina.

The CSRS plays a key role in providing the medical community with accurate and up to date information on prescribing trends to encourage clinical decision making that will ultimately result in more informed prescribing of controlled substances.