

TPP Alberta

**Annual Report
2019-2020**



TPP Alberta

Partners

Alberta College of Pharmacy
Alberta Veterinary Medical Association
Alberta Dental Association and College
Alberta Health
Alberta Health Services
Alberta Medical Association
Alberta Pharmacists' Association
College and Association of Registered Nurses of Alberta
College of Physicians & Surgeons of Alberta
College of Podiatric Physicians of Alberta
Yukon Medical Council

TPP Alberta: About the Program

TPP Alberta was established in 1986, to monitor the use of certain medications prone to misuse and abuse.

TPP Alberta's mandate is to:

- Monitor prescribing, dispensing and utilization practices of targeted medications.
- Improve patient care by providing relevant information and feedback on targeted medications to prescribers and pharmacists.
- Provide timely and relevant information on targeted medications to consumers, regulatory bodies and stakeholders.
- Work with stakeholders to enable system-level change that ensures appropriate use of targeted medications.
- Ensure efficient and effective functioning of the TPP program.

TPP Alberta: 2019-2020 Highlights

| TPP Alberta | | List of Monitored Medications |
|---|--|-------------------------------|
| Please refer to the Veterinary Specific Medications List for Veterinary prescription requirements. | | |
| Type 1 Medications <i>(Secure prescription form required)</i> | Type 2 Medications <i>(Secure prescription form not required except for veterinary prescriptions)</i> | |
| Buprenorphine <ul style="list-style-type: none">- BuTrans- Vetergesic | Methadone Only authorized physicians may prescribe methadone for opioid use disorder. Visit the CGSA GAT Program page for more information. Authorization of physicians is not required when methadone is prescribed for pain. <ul style="list-style-type: none">- Metadol- Methadose | |
| Butalbital Preparations <ul style="list-style-type: none">- Fiorinal- Fiorinal C % & C %- Teva-Tecnal C % & C % | Methylphenidate Exceptions: Biphentin, Concerta and Foquest brands of methylphenidate are Type 2 TPP Alberta drugs and do not require use of a TPP prescription form. <ul style="list-style-type: none">- PMS Methylphenidate/ER- Ritalin | |
| Butorphanol <ul style="list-style-type: none">- Apo-Butorphanol- Dolorex- Stadol- Torbutrol- Torbugesic | Morphine <ul style="list-style-type: none">- Doloral- Kadion- M-Elon- Morphine Epidural- Morphine Sulfate SR- M.O.S.- MS Contin- Stalex | |
| Dextropropoxyphene | Normethadone <ul style="list-style-type: none">- Cophylac | |
| Fentanyl/Sufentanil/Alfentanil <ul style="list-style-type: none">- Alfentanil Injection- Duragesic Patches- Sufentanil Citrate Injection | Oxycodone <ul style="list-style-type: none">- Oxy-IR- OxyNEO- Supseudol- Targin- Teva-Oxycocet/Oxycodan | |
| Hydrocodone - Dihydrocodeinone <ul style="list-style-type: none">- Novahistex-DH- Novahistine-DH- PDP Hydrocodone- Tussionex | Pentazocine <ul style="list-style-type: none">- Talwin | |
| Hydromorphone - Dihydromorphonone <ul style="list-style-type: none">- Dilaudid- Hydromorph Contin | Tapentadol <ul style="list-style-type: none">- Nucynta IR/Extended Release | |
| Ketamine* <ul style="list-style-type: none">- Ketalar- Ketalean- Ketaset- Narketan | | |
| Meperidine - Pethidine <ul style="list-style-type: none">- Demerol- Meperidine HCl Injection | | |

Note: Trade names are included as examples only. This list is not exhaustive for all marketed products containing a monitored drug.
* Drugs in this category cannot be dispensed from veterinary clinics. This includes Alpha-2-Agonists, Pentobarbital, Euthanasia Solutions and General Anesthetic.

July 2019

TPP Medication List Change

In July 2019, buprenorphine/naloxone products moved from Type 1 to Type 2 status, to facilitate prescribing for Albertans with Opioid Use Disorder (OUD). This change contributed to better access to these medications, with the number of patients prescribed them increasing by over 25% and savings of almost \$18,000 on printing costs in nine months.

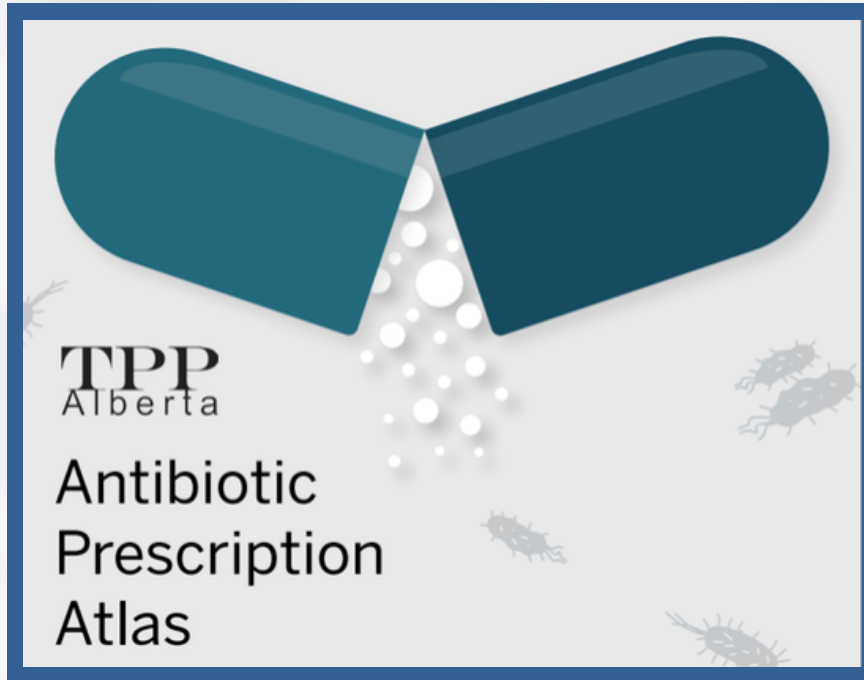
Two-Part Form

TPP Alberta continues to use a two-part secure prescription form. This has streamlined our processes and saved significant operational costs, estimated at \$25,000 per year.

Data Quality

TPP Alberta worked with pharmacies and Alberta Health to help reduce data errors and enhance PIN data.

TPP Alberta: 2019-2020 Highlights



Program Evolution: Antibiotic Data

Antibiotic data engineering and analyses were completed, with input from the Antimicrobial Working Group. Additionally, the first Antibiotic Atlas was released in 2020.

Communication

Prescribing knowledge and information were shared regularly with prescribers, dispensers and stakeholders through emails, newsletters and online resources.

Collaboration

Worked with CARNA to produce two prescribing reports for Nurse Practitioners, and with the Alberta Veterinary Medical Association (ABVMA) on an antimicrobial stewardship initiative.

Data Utilization

Contributed to efforts to help address the opioid crisis, opioid and benzodiazepine prescribing and antimicrobial stewardship in Alberta.

TPP Alberta: Resources

TPP Alberta Website
TPP Alberta Medication List
TPP Alberta Guide
2018 TPP Alberta Atlas
2018 TPP Alberta Antibiotic Atlas



The screenshot shows the TPP Alberta website homepage. At the top center is the logo "TPP Alberta". Below the logo is a navigation bar with the following links: PROGRAM GUIDE, FOR PRESCRIBERS, FOR PHARMACISTS, FAQs, RESOURCES, NEWS, and OUR PARTNERS. The main content area features a large heading "NOW AVAILABLE: ANTIBIOTIC PRESCRIBING DATA". Below this heading is a paragraph: "Since 1986, TPP Alberta has monitored the use of prescription drugs prone to misuse or abuse, using data to help prescribers and dispensers optimize patient care." Another paragraph follows: "Now, to help combat the risk of antimicrobial resistance, we have added a new report to our resources with data on antibiotic prescribing." At the bottom of this section, it says "To find out more, review our first-ever TPP Alberta Antibiotic Prescriptions Atlas." To the right of the main text is a white box titled "Drugs We Are Monitoring" which includes the text "Includes Type 1 and Type 2 medications." and a button labeled "TPP Alberta Medications List". The background of the website features a blurred image of a pill bottle.

TPP Alberta: Data Utilization

MD snapshot

NP Snapshot

MD & NP Snapshot: Prescribing Reports

Personalized reports based on TPP data and focusing on evidence-informed thresholds were produced and updated for more than 8,000 physicians and over 350 nurse practitioners who prescribe opioids and benzodiazepines.



High-Risk Alert Letters

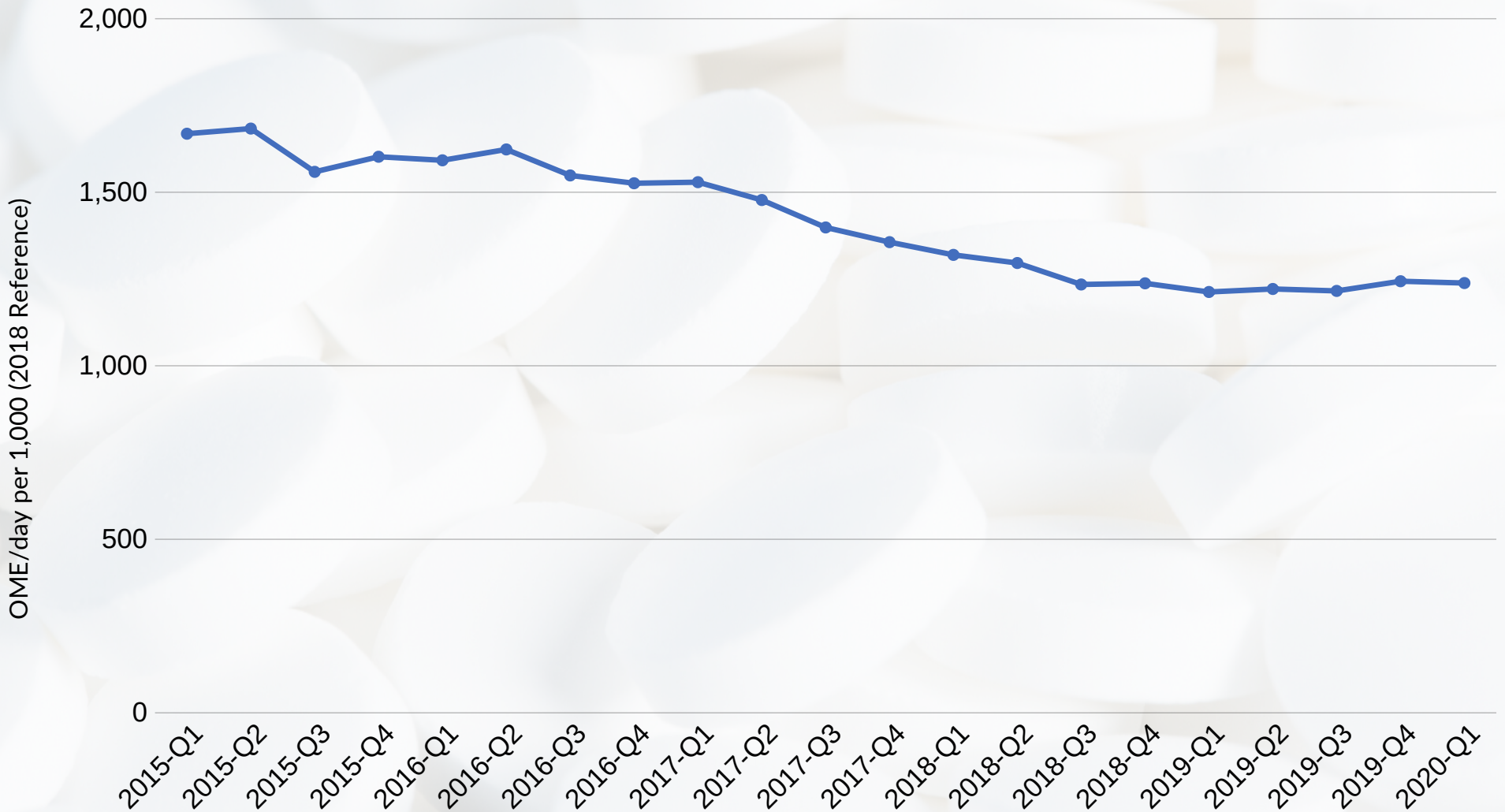
Up to 200 alert letters per month were sent to prescribers identified as high-risk, based on thresholds related to high OME, multiple providers and multiple pharmacies in a three-month period.



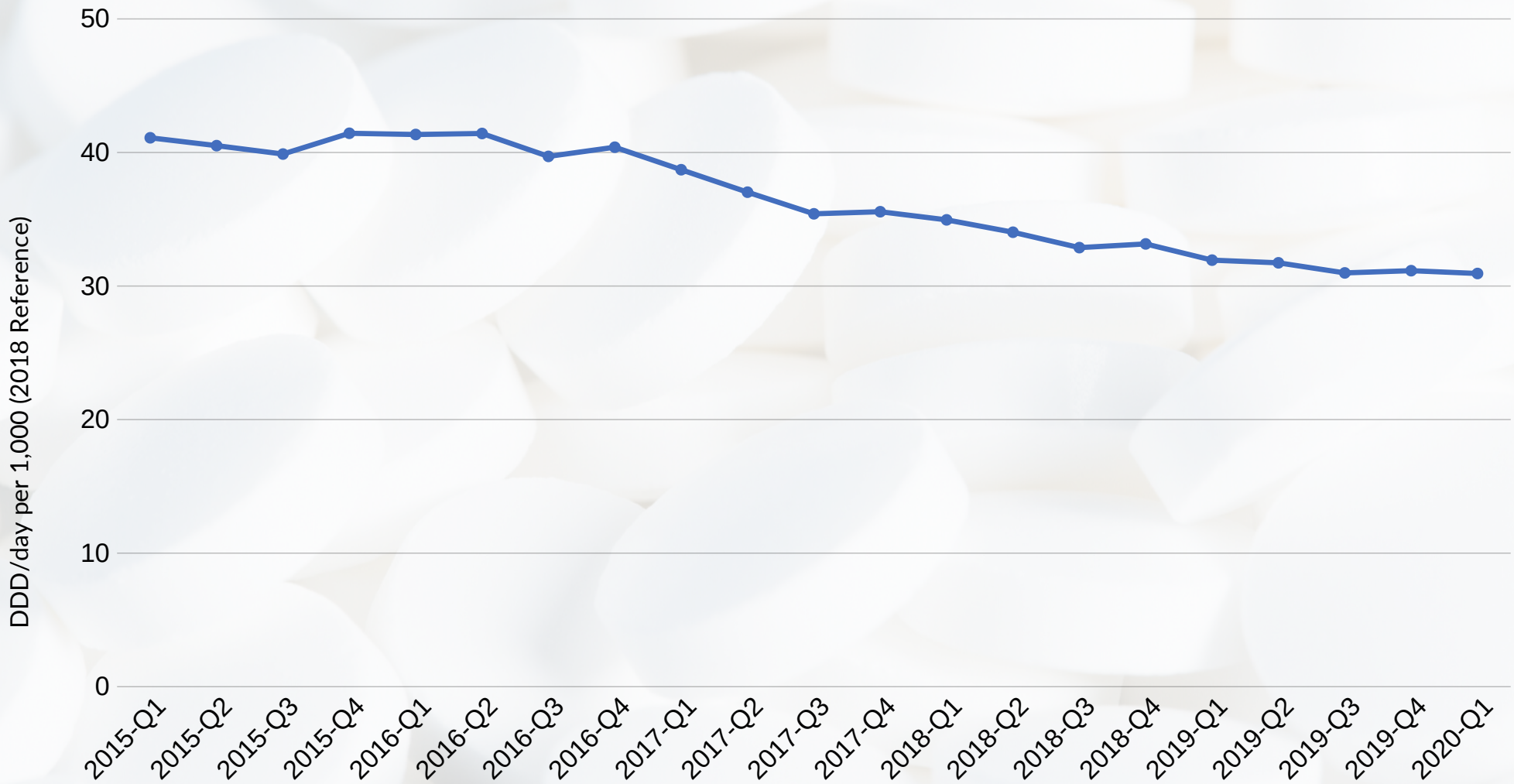
Mentorship & Education

The Daily Oral Morphine Equivalent (DOME) Program identified prescribers who had patients with very high OME values and paired them with an educational mentor.

TPP Alberta 2016-2019: OME Rates/1,000

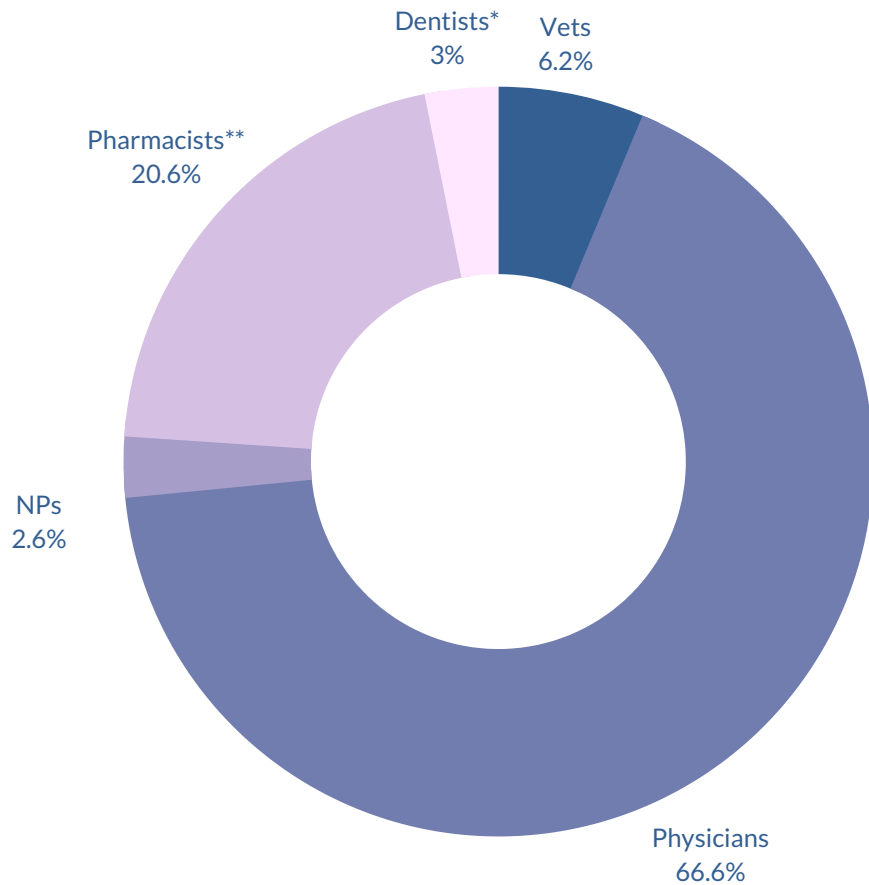


TPP Alberta 2016-2019: DDD Rates/1,000

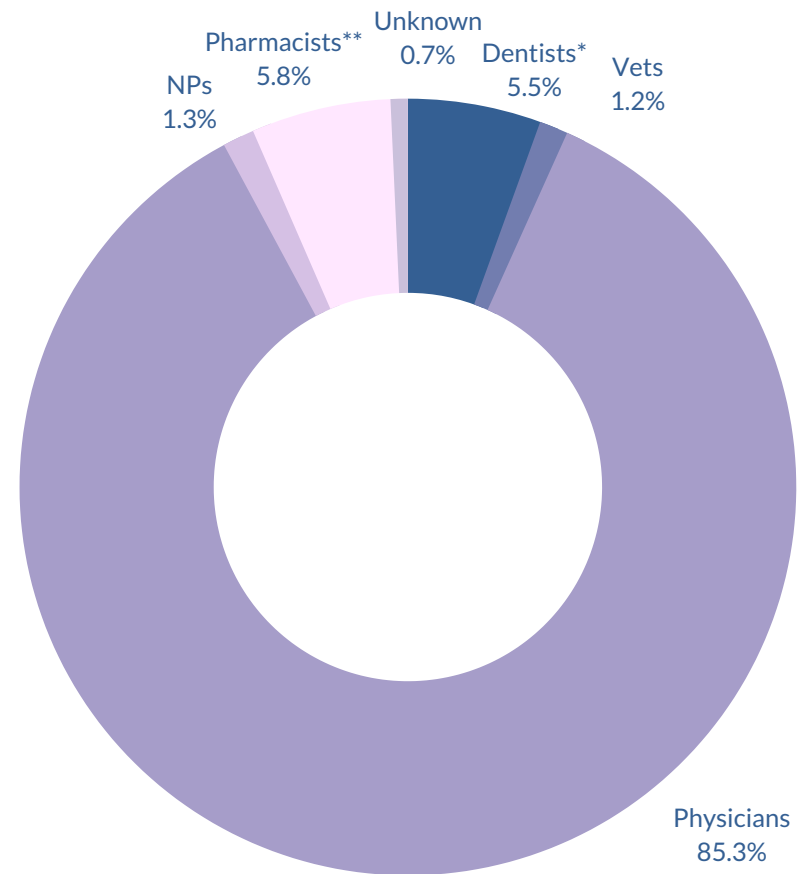


TPP Alberta: Member Prescribing

Opioid Prescribers 2019



Opioid Prescriptions 2019



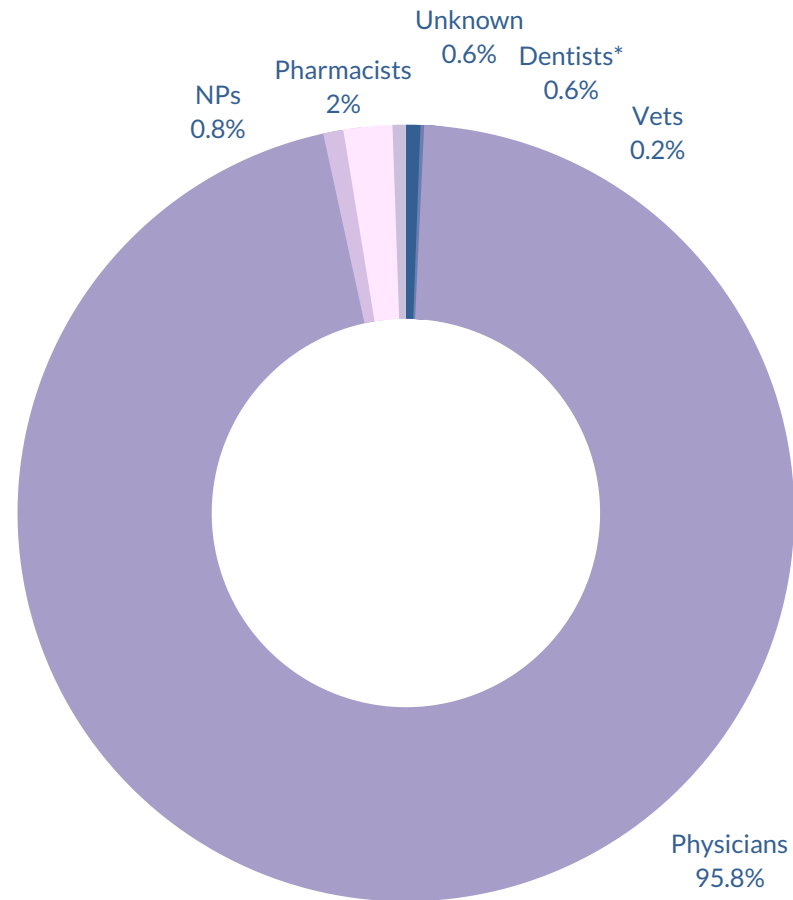
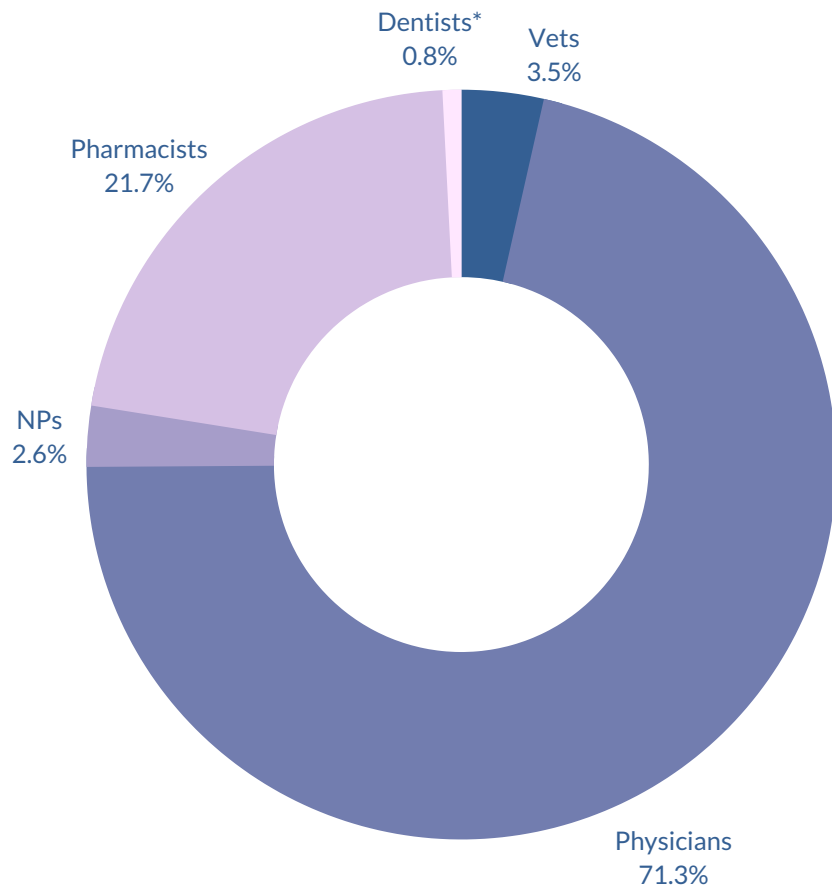
*Mostly attributed to an unknown dentist

**Reflects sales of over-the-counter codeine products

TPP Alberta: Member Prescribing

Benzo Prescribers 2019

Benzos Prescriptions 2019



*Mostly attributed to an unknown dentist

2018 TPP Atlas Trends: Opioids

| Year | Prescriptions | Patients | Prescribers | Pharmacies | Population | OME per day per 1000 Population | Patients per 1000 Population | Patients ≥90 OME per 1000 Population |
|--------------|---------------|----------|-------------|------------|------------|---------------------------------|------------------------------|--------------------------------------|
| 2014 | 1,746,249 | 562,639 | 12,625 | 1,366 | 4,121,532 | 1,567 | 137.7 | 3.5 |
| 2015 | 1,753,219 | 563,555 | 13,311 | 1,370 | 4,196,192 | 1,532 | 135.3 | 3.5 |
| 2016 | 1,814,765 | 577,905 | 14,170 | 1,413 | 4,252,720 | 1,488 | 136.6 | 3.5 |
| 2017 | 1,702,190 | 547,862 | 14,570 | 1,376 | 4,285,997 | 1,277 | 127.8 | 3.0 |
| 2018 | 1,554,024* | 516,670* | 14,337* | 1,464* | 4,306,822 | 1,119 | 120.0 | 2.6 |
| 5 year trend | | | | | | | | |

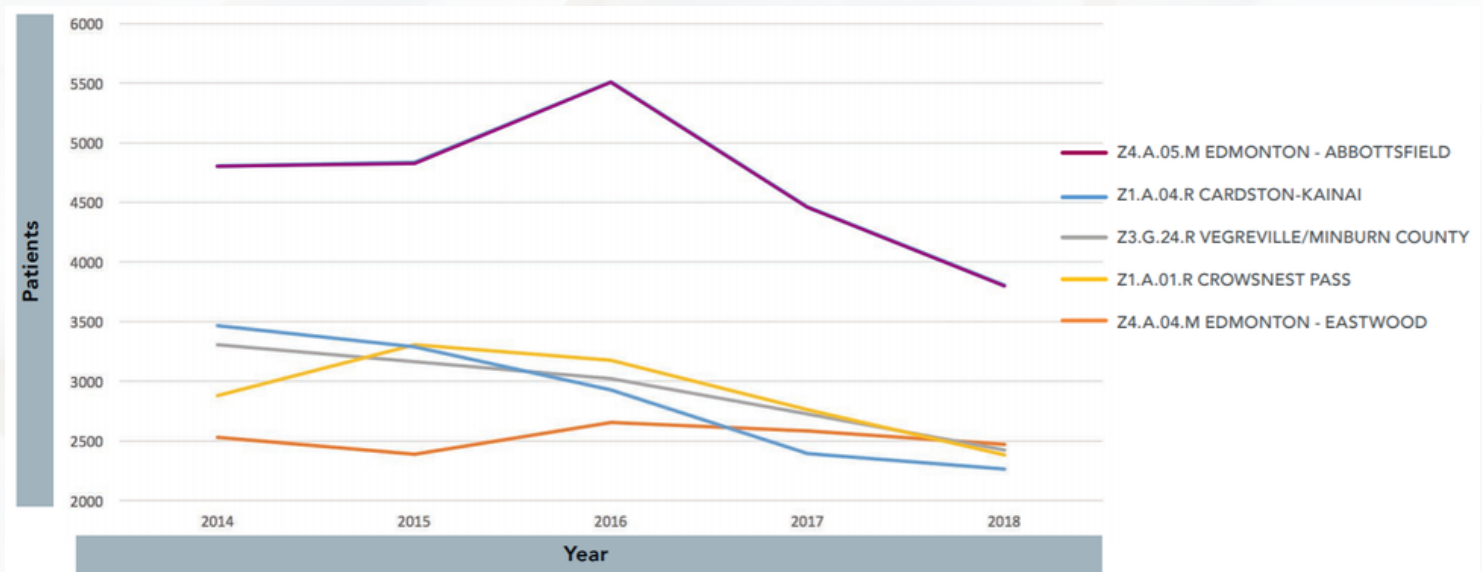
* Tramadol data contribute 24,615 prescriptions, 14,133 patients, 151 prescribers, and 2 pharmacies to the 2018 totals for each category.

Use of Prescription Opioids in Alberta

.....
2014-2018

Five-Year Trends in Areas with Highest Rates of Total OME per Day

.....
2014-2018

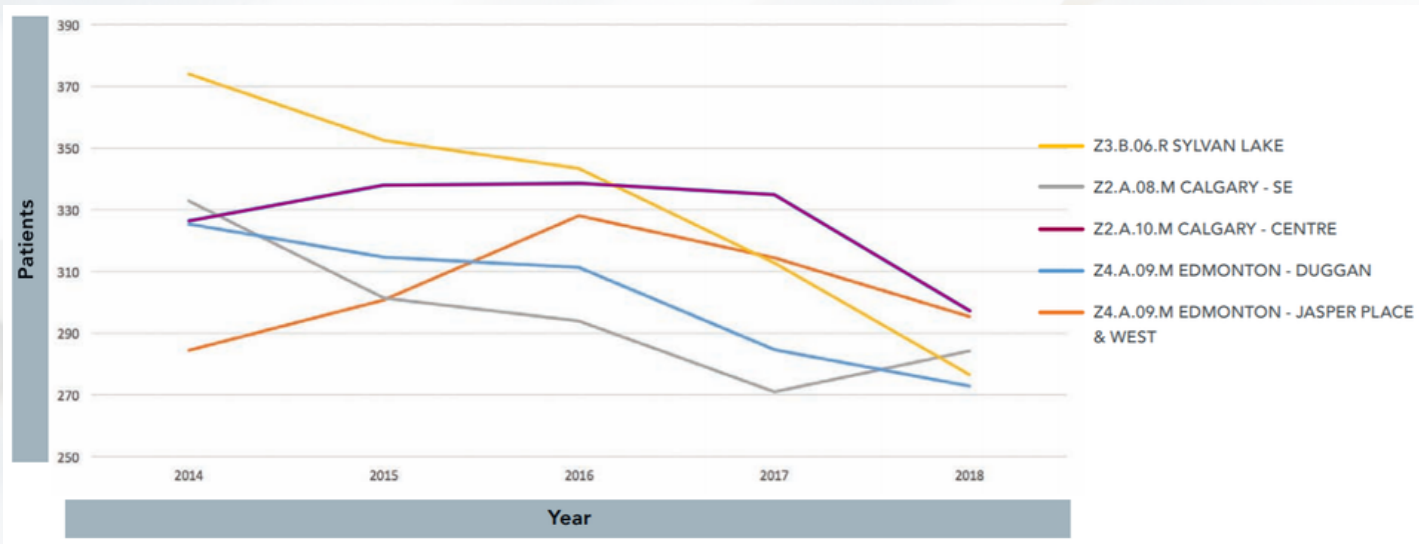


*Decreases in average OME rates/day are also being seen in areas of the province with high opioid prescribing.

2018 TPP Atlas Trends: Benzos

Use of Prescription Benzodiazepines in Alberta 2014-2018

| Year | Prescriptions | Patients | Prescribers | Pharmacies | Population | DDDs per 1000 Population | Patients per 1000 Population | Elderly Patients per 1000 Elderly Population | Patients ≥ 2 DDDs per 1000 Population |
|--------------|---------------|----------|-------------|------------|------------|--------------------------|------------------------------|--|---------------------------------------|
| 2014 | 1,178,216 | 358,752 | 11,369 | 1,332 | 4,121,532 | 43.6 | 88.9 | 232.8 | 3.9 |
| 2015 | 1,220,746 | 373,690 | 12,035 | 1,344 | 4,196,192 | 42.6 | 90.4 | 231.0 | 3.7 |
| 2016 | 1,284,634 | 386,888 | 12,738 | 1,415 | 4,252,720 | 41.6 | 91.9 | 230.2 | 3.5 |
| 2017 | 1,204,353 | 369,834 | 13,150 | 1,381 | 4,285,997 | 36.6 | 86.3 | 215.6 | 2.9 |
| 2018 | 1,128,700 | 356,023 | 13,394 | 1,464 | 4,306,822 | 33.3 | 82.3 | 203.9 | 2.5 |
| 5 year trend | | | | | | | | | |



Five-Year Trends for Five Areas with Highest Rates of Elderly Benzodiazepine Patients 2014-2018

* In addition to a general downward trend in benzodiazepine prescriptions and DDDs in the province, a decrease in the number of elderly patients receiving benzodiazepines is seen in the majority of areas with high prescribing rates.

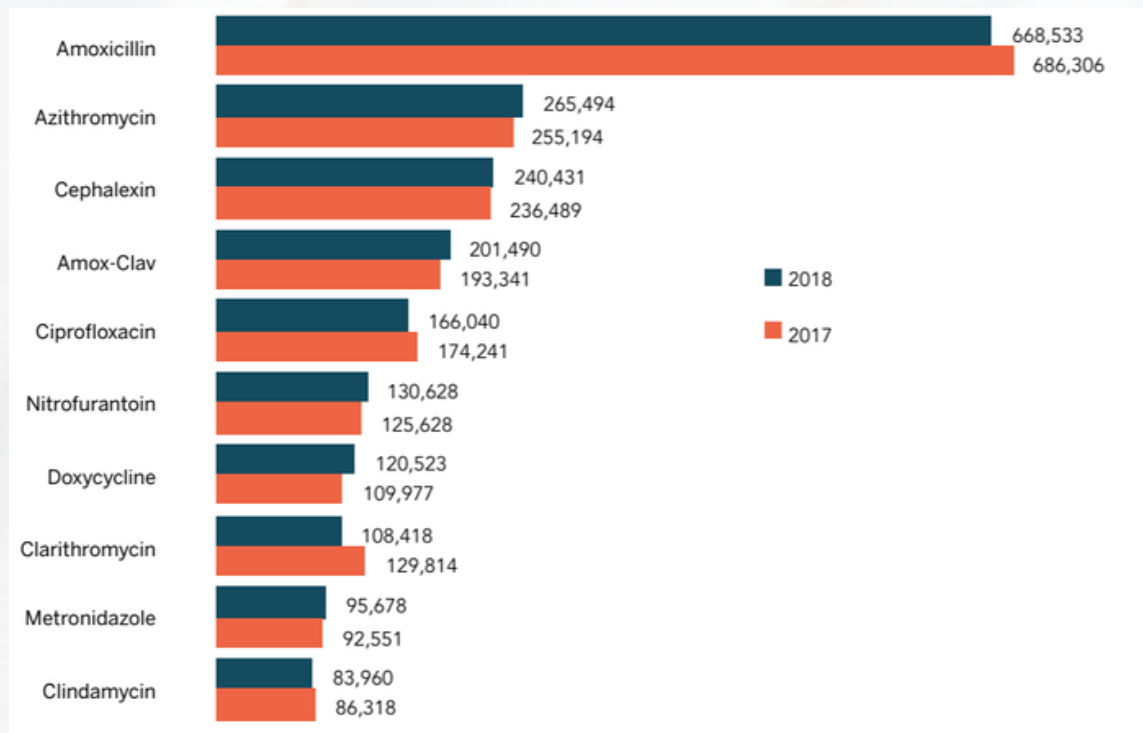
2018 TPP Atlas Trends: Antibiotics

| Prescriber Type | Prescriptions | Patients | Prescribers* | Pharmacies |
|--------------------|---------------|-----------|--------------|------------|
| Physician | 2,048,876 | 1,194,443 | 12,446 | 1,493 |
| Dentist | 281,643 | 215,944 | - | 1,448 |
| Pharmacist | 102,833 | 88,903 | 3,777 | 1,409 |
| Unknown | 20,615 | 16,358 | - | 1,038 |
| Nurse Practitioner | 17,572 | 13,751 | 448 | 925 |
| Optician | 2,054 | 1,813 | - | 448 |
| Dental Hygienist | 343 | 311 | - | 193 |
| Dietician | 121 | 104 | - | 72 |

Patients by Prescriber Type 2018

*12% of prescriptions from a nurse practitioner prescriber type, three percent from a physician prescriber type, and less than one percent from a pharmacist prescriber type do not identify the individual prescribers. Majority of Dentist, Dental Hygienist, Optician and Dietician prescriber types are entered using pseudo IDs in PIN. As such, total numbers cannot be calculated.

Prescriptions by Antibiotic per Year 2017-2018

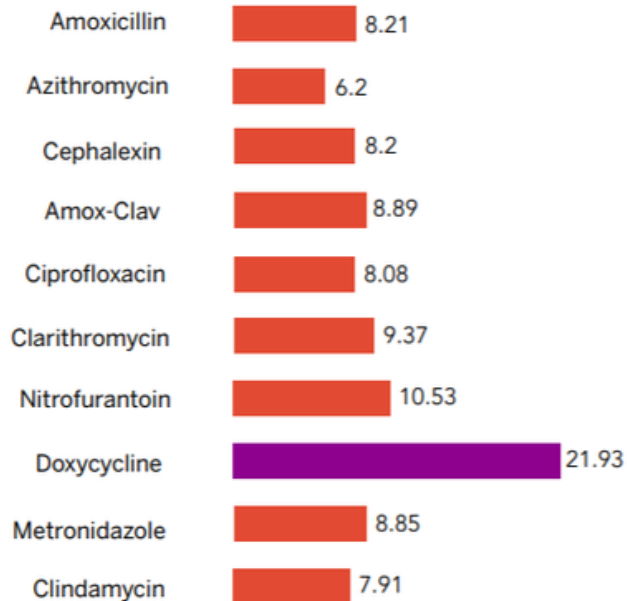
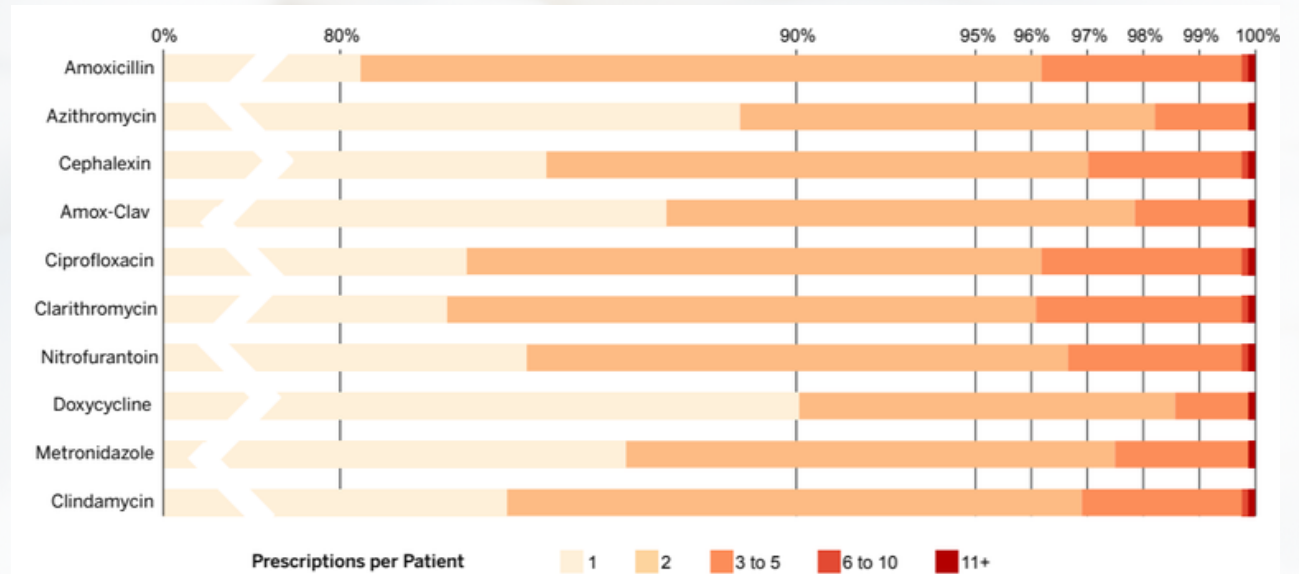


*Only the most commonly-prescribed antibiotics are shown, representing over 84% of all oral antibiotics dispensed.

2018 TPP Atlas Trends: Antibiotics

Distribution of Prescriptions per Patient 2018

* 10% or more patients were dispensed two or more prescriptions for the same antibiotic in a year



Average Treatment Days per Prescription 2018

* Treatment days per prescription of more than seven days was common for most antibiotics other than azithromycin.

TPP Alberta Grant Report: Financial Summary

| | | GAMS Grant ID | | Grant-004961 | |
|--|--|--|-----------|--------------|-----------|
| | | UNAUDITED FINANCIAL REPORTING FOR GRANTS | | | |
| | | MULTI-YEAR AGREEMENT | | | |
| | | YEAR 3 of 3 | | | |
| Grant Recipient: | College of Physicians & Surgeons of Alberta | | | | |
| Description of Grant: | Triplicate Prescription Program | | | | |
| Term of Agreement: | 01-Apr-17 | to | 31-Mar-20 | Date: | 21-May-20 |
| Financial Reporting for the Period: | 01-Apr-19 | to | 31-Mar-20 | | |

| | Current Fiscal Period: | | | Full Term of Agreement | | |
|--|------------------------|---------------------|------------------|------------------------|---------------------|----------------------|
| | Year-To-Date | | | Agreement-To-Date | | |
| | Budget | Actuals | Variance | Budget | Actuals | Variance |
| Revenue | | | | | | |
| Contribution from Alberta Health (Surplus) | - | - | - | 23,793.56 | 23,793.56 | - |
| Contribution from Alberta Health | 660,000.00 | 660,000.00 | - | 1,956,206.44 | 1,856,206.44 | (100,000.00) |
| Receivable from Alberta Health - Amendment #2 incorporate antibiotic data | - | 100,000.00 | 100,000.00 | - | 100,000.00 | 100,000.00 |
| Refund to Alberta Health (June 2019) | - | (6,588.00) | (6,588.00) | - | (6,588.00) | (6,588.00) |
| Government Grant - Investment Income | - | 1,939.86 | 1,939.86 | - | 2,609.70 | 2,609.70 |
| Grant - Other Sources | 156,000.00 | 139,400.00 | (16,600.00) | 434,000.00 | 403,425.00 | (30,575.00) |
| CPSA Contribution | 169,700.00 | 171,879.00 | 2,179.00 | 479,000.00 | 480,588.00 | 1,588.00 |
| Total Revenue | 985,700.00 | 1,066,630.86 | 80,930.86 | 2,893,000.00 | 2,860,034.70 | (32,965.30) |
| Expense | | | | | | |
| General Program Expenditures | | | | | | |
| Consulting | 189,900.00 | 262,368.75 | 72,468.75 | 547,500.00 | 647,047.86 | 99,547.86 |
| Legal | 3,000.00 | - | (3,000.00) | 9,000.00 | - | (9,000.00) |
| Occupancy Costs | 59,000.00 | 19,551.00 | (39,449.00) | 163,300.00 | 109,575.01 | (53,724.99) |
| Operating Costs | 64,000.00 | 65,426.01 | 1,426.01 | 189,700.00 | 187,226.00 | (2,474.00) |
| Printing, Supplies & Courier | 23,500.00 | 7,607.74 | (15,892.26) | 68,400.00 | 58,457.82 | (9,942.18) |
| Special printing | 340,000.00 | 421,574.60 | 81,574.60 | 1,005,500.00 | 1,030,089.90 | 24,589.90 |
| Travel, Meals & Accommodation | - | - | - | - | 45.60 | 45.60 |
| Sub-total | 679,400.00 | 776,528.10 | 97,128.10 | 1,983,400.00 | 2,032,442.19 | 49,042.19 |

TPP Alberta Grant Report: Financial Summary

| | | | | | | |
|--|-------------------|---------------------|------------------|---------------------|---------------------|----------------------|
| Staffing Costs | | | | | | |
| Salaries & Benefits | 303,300.00 | 268,314.74 | (34,985.26) | 899,700.00 | 793,257.66 | (106,442.34) |
| Professional Development | 3,000.00 | 1,685.89 | (1,314.11) | 9,900.00 | 3,695.21 | (6,204.79) |
| Sub-total | 306,300.00 | 270,000.63 | (36,299.37) | 909,600.00 | 796,952.87 | (112,647.13) |
| Committee Expenses | | | | | | |
| Travel, Meals & Accommodation, Sundry | - | 26.44 | 26.44 | - | 222.25 | 222.25 |
| Sub-total | - | 26.44 | 26.44 | - | 222.25 | (222.25) |
| Total Expenses | 985,700.00 | 1,046,555.17 | 60,855.17 | 2,893,000.00 | 2,829,617.31 | (63,382.69) |
| Surplus < Deficit > | - | 20,075.69 | 20,075.69 | - | 30,417.39 | 30,417.39 |

Unexpended Funding

| | | | |
|-------------------------------------|--|--|-----------|
| <input type="checkbox"/> | Opening Balance: Prior Year's <Deficit> | Year 2 Cumulative | 10,341.70 |
| <input checked="" type="checkbox"/> | Attached Request(s) for Retention of Unexpended Funding Form (FINAL YEAR ONLY) | Add (Subtract) Current Surplus/ (Deficit): Year 3 | 20,075.69 |
| | Less: Approved Request(s) for Retention of Unexpended Funding (FINAL YEAR ONLY) | | 30,417.39 |
| | Closing Balance: <Deficit> | | - |

Finance Contact:

Tracy Simons
Name Phone # 780-969-4983

Program Contact:

Ed Jess
Name Phone # (780) 969-4946

2020-05-21

Finance Approval:

Tracy Simons
Name Position / Phone # Chief Financial Officer (780) 969-4983

21-May-20
Date

X 
Tracy Simons, CPA, CA
Chief Financial Officer
Signed by: Tracy Simons