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Alexandria Fire Department Annual Medication Cost Estimate

Prepared by the Office of Performance Analytics

This analysis is an estimate of what it may cost the City of Alexandria Fire Department, annually, to pay for the medications used in responding to emergency incidents.

To determine this, we took the following steps:

- Compiled 2023 YTD usage for all medications the department uses.
- Prorated those usage amounts to a full calendar year.
- Compiled medication prices and units from 2 sources:
 - o A contract that Fairfax County Fire department provided to Assistant Chief Andrew Duke.
 - o Prices that weren't available from that contract were pulled from Boundtree.com, a supplier that AFD currently has a contract with.
- Made any necessary conversions between usage units and price units.
- Multiplied annual usage by price.
- Accounted for expiration replacement by increasing total by 10% (recommendation by Chief Duke), apart from EpiPens which were based on the amount the department keeps on all units and a shelf life of 12-18 months, we estimate replacing 35 per year.

Detailed breakdown:

| Name | Annual Estimate | Unit | Cost Per Unit | Annual Cost Estimate | Price source |
|--------------------------------|-----------------|-------------------------------|---------------|----------------------|------------------|
| Adenosine | 25.16 | 6mg/2ml vial | \$2.36 | \$59.38 | Fairfax Contract |
| Albuterol / Ipratropium DuoNeb | 291.227 | 2.5 mg/3cc bullet | \$0.10 | \$29.12 | Fairfax Contract |
| Amiodarone | 49.062 | 150mg/3ml vial | \$2.00 | \$98.12 | Fairfax Contract |
| Aspirin | 598.808 | 81mg tablet | \$0.03 | \$17.96 | Fairfax Contract |
| Atropine | 13.838 | 1mg/10ml PFS | \$8.58 | \$118.73 | Fairfax Contract |
| D10 | 75.48 | Dextrose 10% (D10W) 250mL bag | \$10.69 | \$806.88 | Boundtree.com |
| D50 | 10.064 | Dextrose 50%-25g/50ml PFS | \$26.40 | \$265.69 | Boundtree.com |
| Dexamethasone (Decadron) | 86.802 | 10ml vial | \$1.63 | \$141.49 | Fairfax Contract |
| Diltiazem (Cardizem) | 1.258 | 100/bottle, 120mg | \$0.31 | \$0.39 | Fairfax Contract |
| Diphenhydramine (Benadryl) | 69.19 | 50mg vial | \$0.56 | \$38.75 | Fairfax Contract |
| Epi 1 mg/mL CODE | 349.724 | 30 mg/30ml vial | \$24.97 | \$8,732.61 | Boundtree.com |

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|---|-----------|-------------------------|----------|--------------------|------------------|
| Epi 1 mg/mL | 37.74 | 1mg/1ml amp | \$28.79 | \$1,086.53 | Boundtree.com |
| Epi 10 mcg/mL Push Dose | 18.87 | 1mg/10ml PFS | \$16.80 | \$317.02 | Boundtree.com |
| Epipen1.5 MG Auto-Injector | 0 | Injector Pen | \$305.00 | \$0.00 | Boundtree.com |
| EpiPen 0.3 MG Auto-Injector | 35 | Injector Pen | \$305.00 | \$10,675.00 | Boundtree.com |
| Etomidate | 38.998 | 40mg/2ml | \$5.74 | \$223.85 | Fairfax Contract |
| Fentanyl | 403.818 | 0.1mg/2ml | \$0.63 | \$254.41 | Fairfax Contract |
| Glucagon | 11.322 | 1mg kit | \$161.22 | \$1,825.33 | Fairfax Contract |
| Haloperidol (Haldol) | 1.258 | 5mg/1ml vial | \$5.28 | \$6.64 | Fairfax Contract |
| Ketamine | 86.802 | 5ml vial | \$7.79 | \$676.19 | Fairfax Contract |
| Lidocaine | 20.128 | 20ml vial | \$1.61 | \$32.41 | Fairfax Contract |
| Lorazepam (Ativan) | 172.346 | vial | \$13.60 | \$2,343.91 | Boundtree.com |
| Magnesium Sulfate | 8.806 | 1g/2ml vial | \$1.30 | \$11.45 | Fairfax Contract |
| Metoprolol | 15.096 | 5ml vial | \$1.03 | \$15.55 | Fairfax Contract |
| Midazolam (Versed) | 50.32 | 1mg/2ml PFS | \$1.12 | \$56.36 | Fairfax Contract |
| Morphine | 3.774 | 10mg carpujet | \$1.65 | \$6.23 | Fairfax Contract |
| Naloxone (Narcan) | 124.542 | 4mg/10cc vial | \$110.17 | \$13,720.79 | Fairfax Contract |
| Nitroglycerin | 139.638 | bottle 25 0.4mg tabs | \$0.89 | \$124.28 | Fairfax Contract |
| Ondansetron (Zofran) IV | 588.58675 | 2mg/ml vial | \$1.06 | \$623.90 | Fairfax Contract |
| Ondansetron (Zofran) Oral | 65.7305 | 4mg ODT | \$1.06 | \$69.67 | Fairfax Contract |
| Oral Glucose | 62.9 | 30 Grams | \$6.39 | \$401.93 | Boundtree.com |
| Racemic Epinephrine | 10.064 | 11.25mg/0.5ml | \$1.42 | \$14.29 | Fairfax Contract |
| Rocuronium | 30.192 | 50mg/5ml | \$26.00 | \$784.99 | Boundtree.com |
| Sodium Bicarbonate | 6.29 | 8.4% 50ml PFS | \$7.81 | \$49.12 | Fairfax Contract |
| Toradol | 1 | 60mg/1cc vial 2ml | \$2.22 | \$2.22 | Fairfax Contract |
| Tranexamic Acid | 3.774 | 1000mg/10ml | \$8.99 | \$33.93 | Boundtree.com |
| Sub Total | | | | \$43,665.12 | |
| Expiration Replacement Estimate of 10% | | | | \$3,299.01 | |
| Grand Total | | | | \$46,964.13 | |