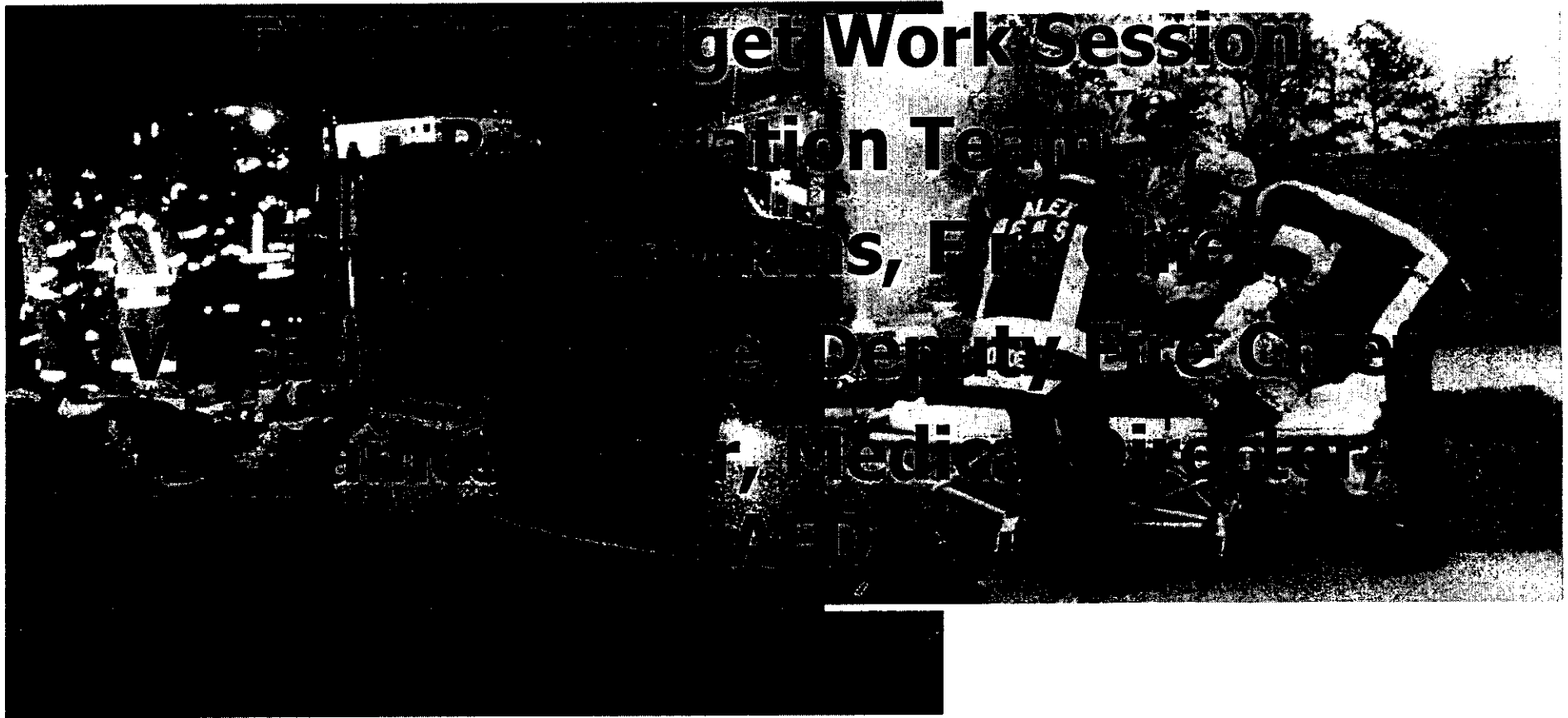


II
4-19-01



5th Medic Proposal

ALEXANDRIA FIRE DEPARTMENT



*City of Alexandria Fire
Department
Emergency Medical Service*



Alexandria Fire Department Mission Statement

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The people of the Alexandria Fire Department are dedicated to those who visit, live or work in the City of Alexandria

We strive to:

Enhance the quality of life ...

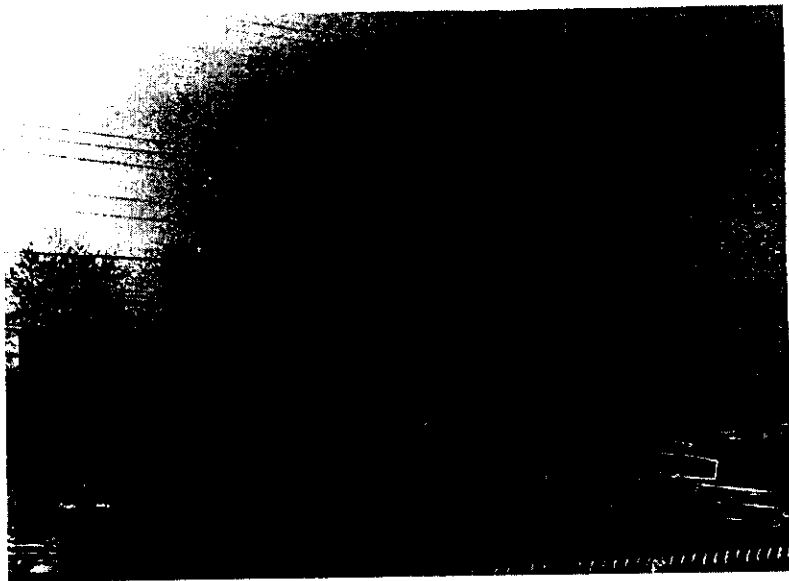
Deliver responsive and caring emergency service ...

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Overview of EMS



- First Aid trained fire fighters provided basic life support and transportation to hospital.
- Emergency call volume 1966 – 6,229
- Emergency call volume 1977 – 8,755

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1976 – 1978



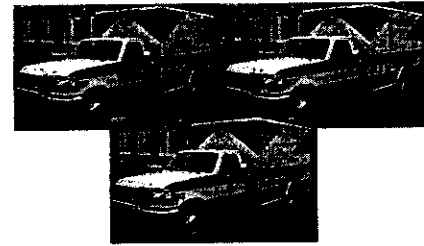
- Hired the first Paramedics
- Two Medic units staffed
- Advanced cardiac care provided outside the hospital
- 1977 – Third Medic Unit staffed

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Key Events



- EMS call volume continues to increase
 - 1966 >6,229 (2 non-ALS units)
 - 1977 >8,755 (3 ALS UNITS)
 - 1988 >9,518 (4 ALS units)
- 1988 - Fourth Medic Unit staffed

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Increasing complexity of Pre-hospital care 1977 - present

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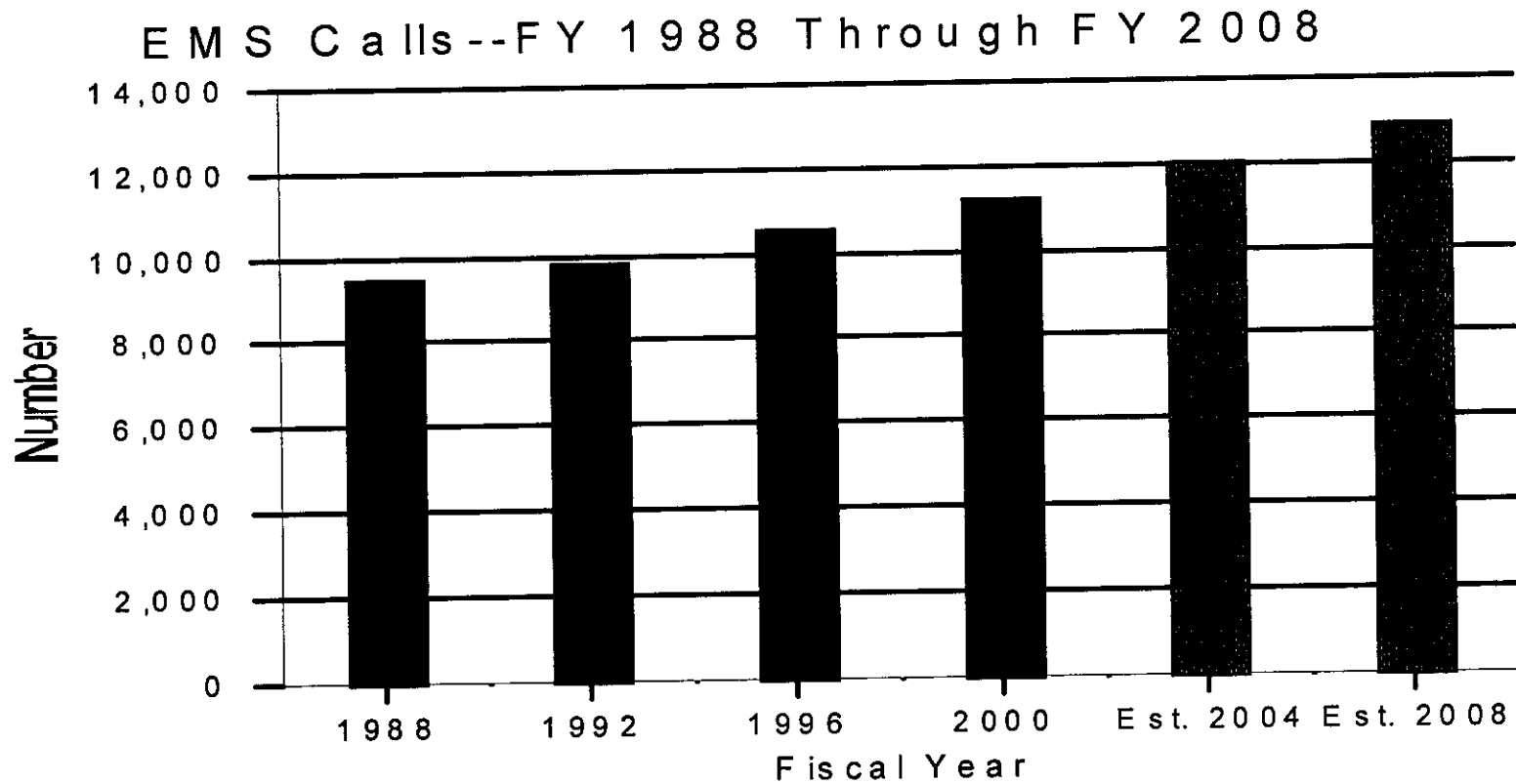
- **Advanced Airway Control Procedures**
 - (Esophageal Airway 1978 > Endotracheal Intubation 1985> Cricothyroidotomy 1995 > Rapid Sequence Intubation 1999)
- **Advanced Electrocardiograms**
 - (Three Lead 1976 > Twelve Lead 1992 > Twelve Lead Diagnostic Quality 1998)
- **Numerous Medications**
 - (Originally carried only about one dozen medications 1976 > Now carrying More than 40 different medications [2000])
- **Expanded Medical Protocols**
 - (Basic Cardiac protocols 1976 > New and expanded treatment protocols to include use of all listed above; most without radio contact with the Emergency Department physician [2000])

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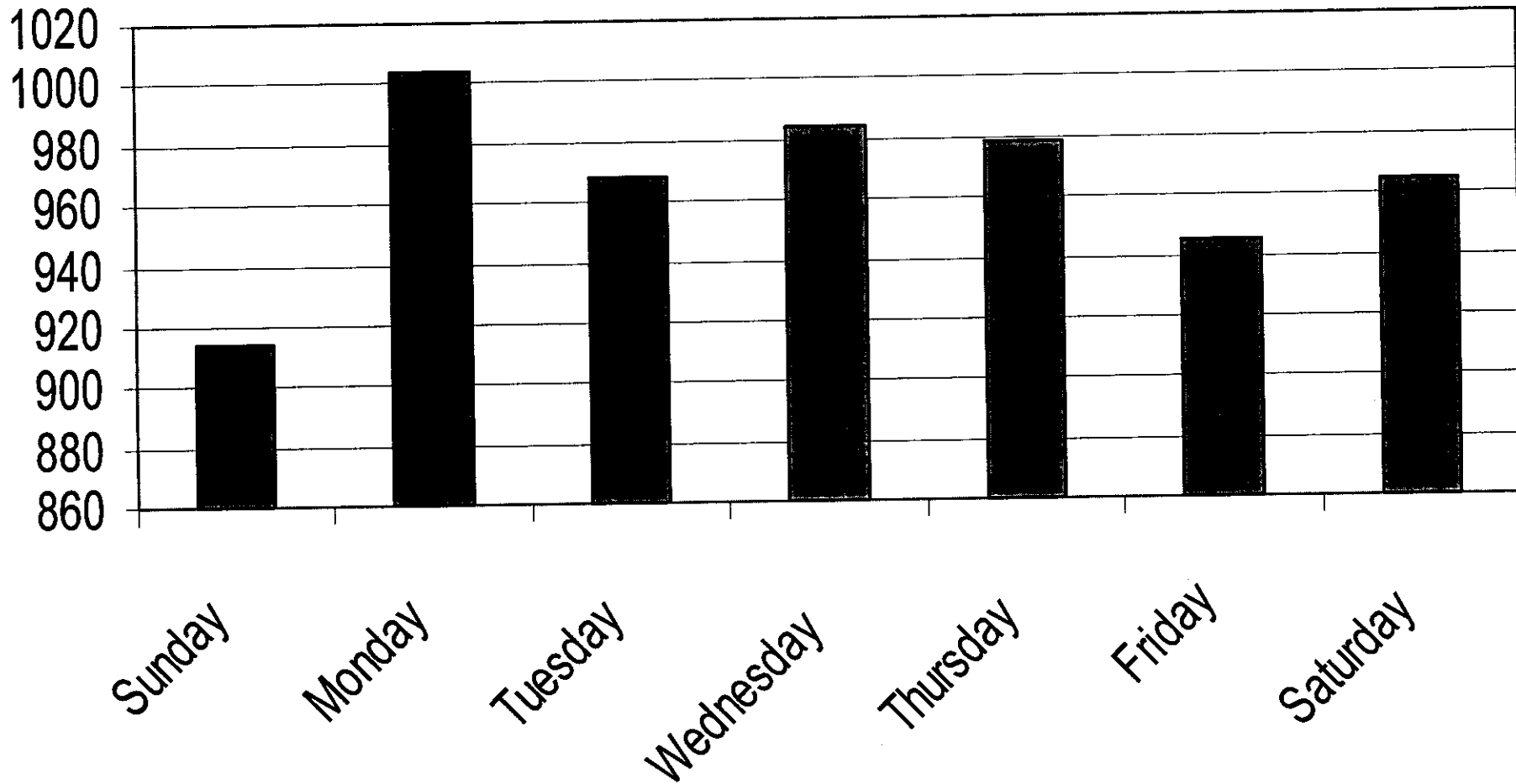
Emergency Medical incident volume increases

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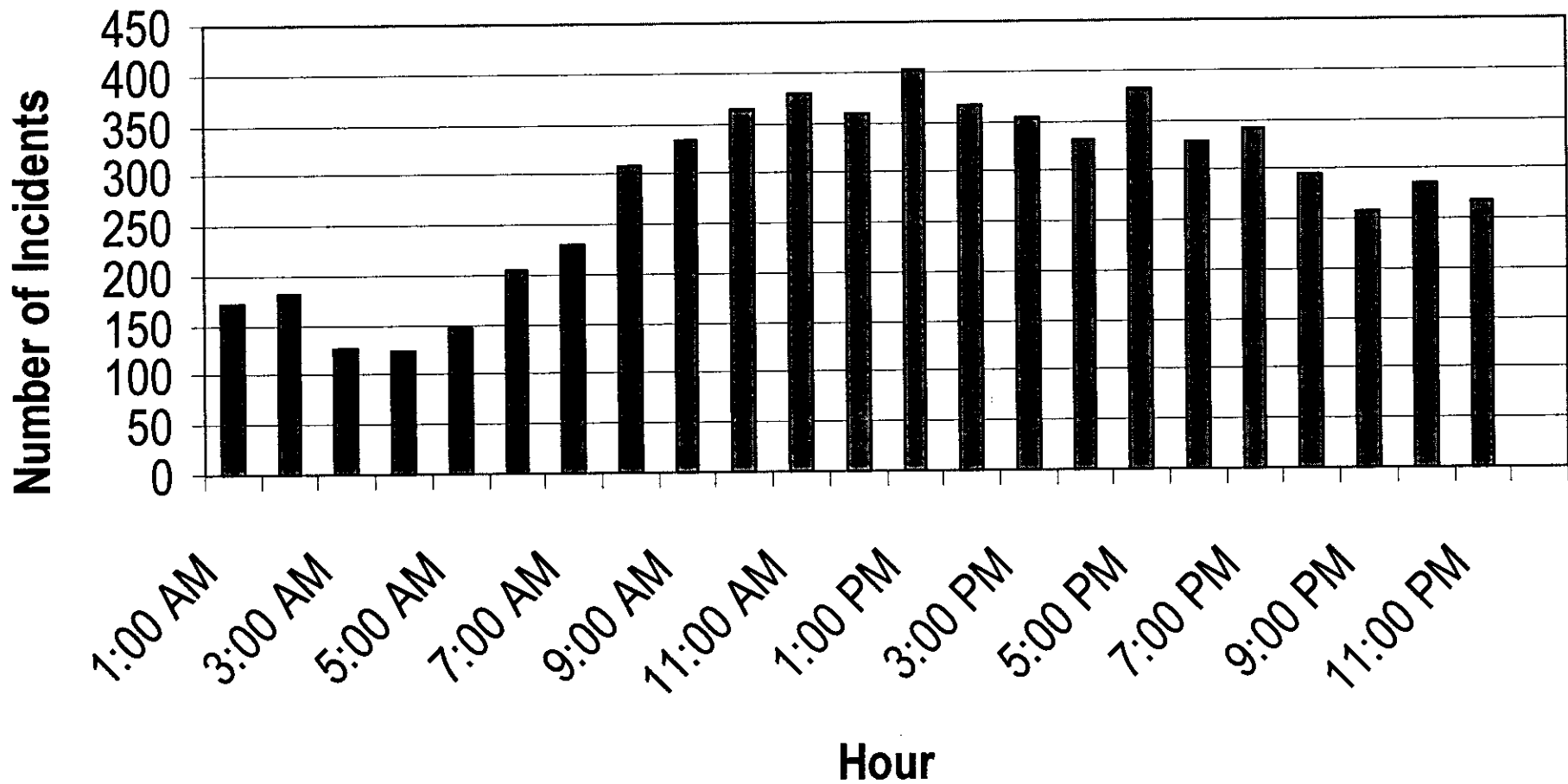
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Number of Incidents by Day of the Week 2000



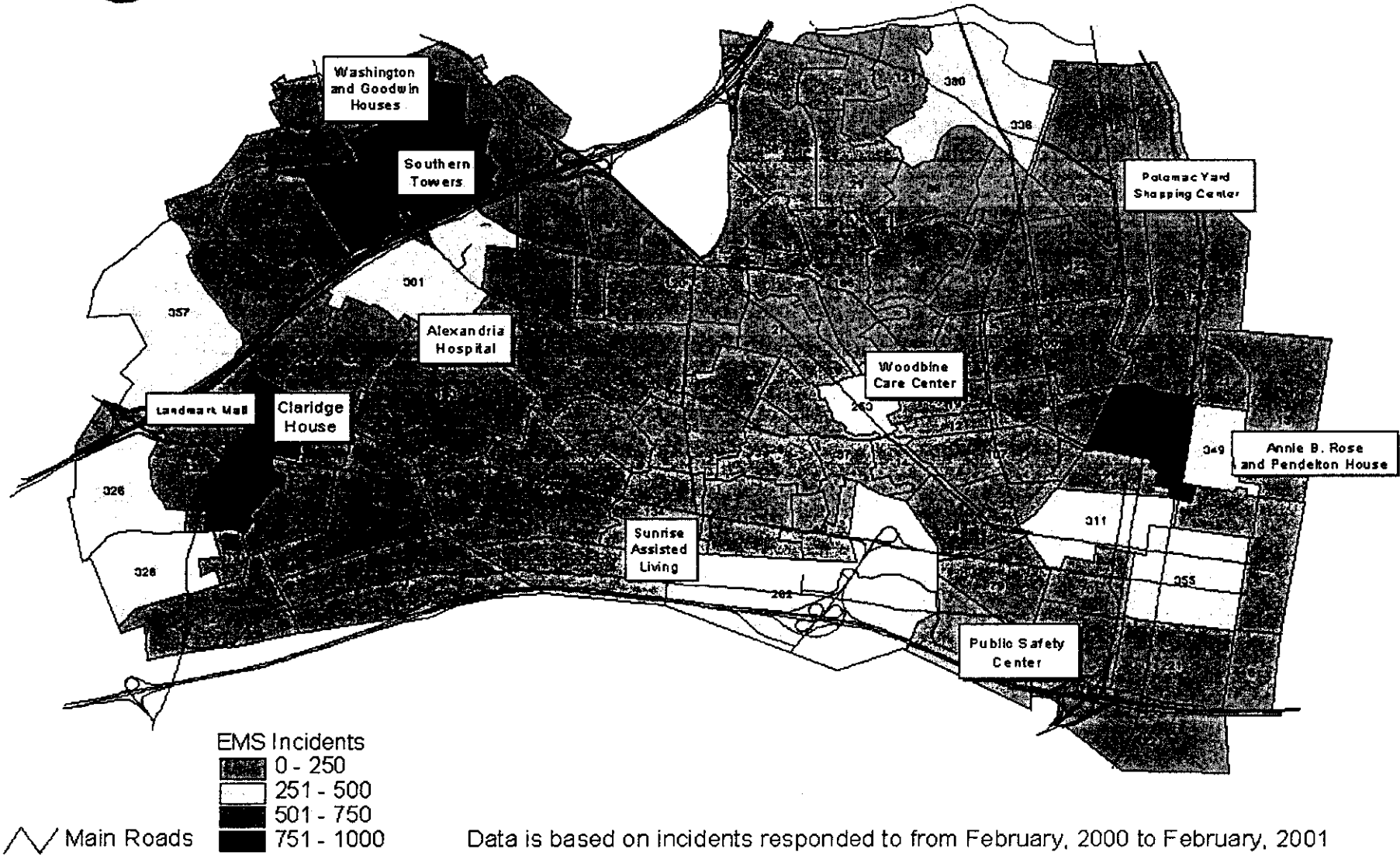
EMS Incidents By Time of Day

Year Ending Nov 2000





EMS Incidents by Zone Box



Emergency Medical Service

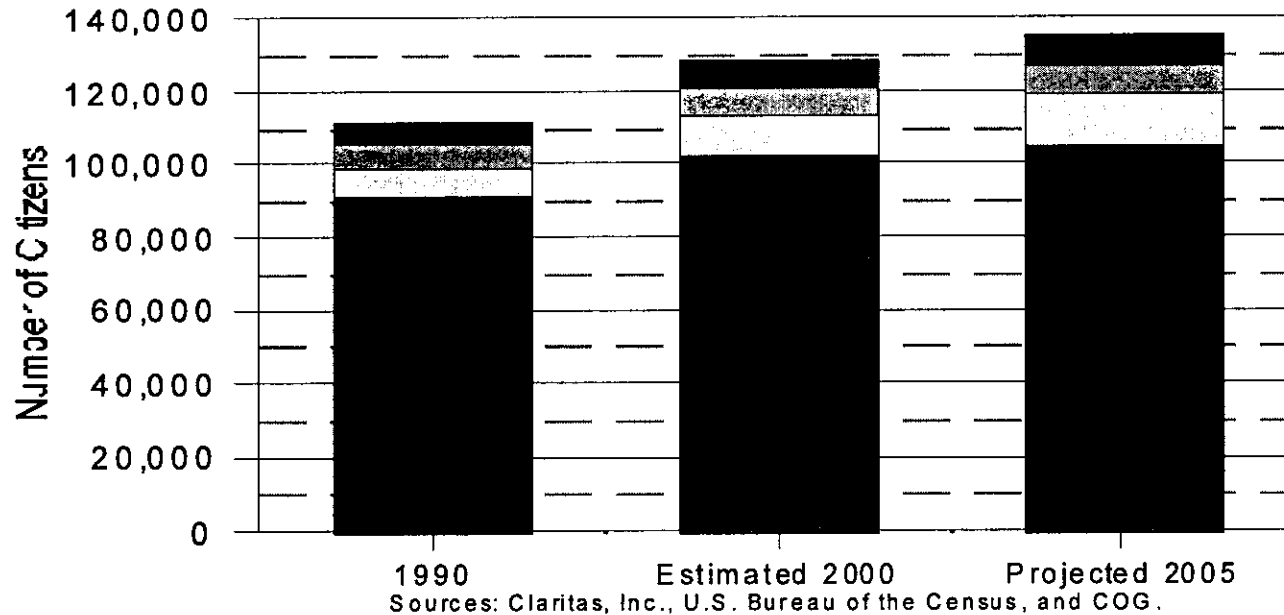


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City population age increases

Alexandria's Population 1990--2005

-- By Age Group--



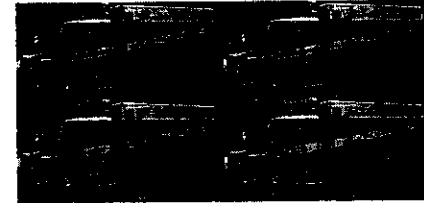
■ Ages 75 and Over ■ Ages 65-74
□ Ages 55-64 ■ Ages 54 and Under

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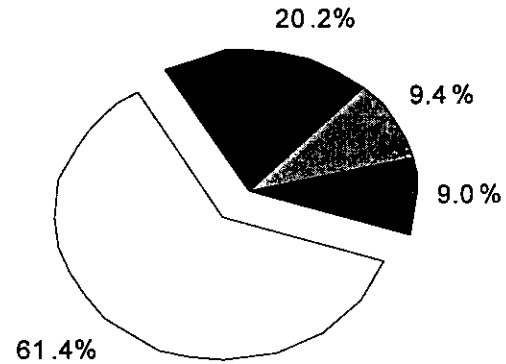
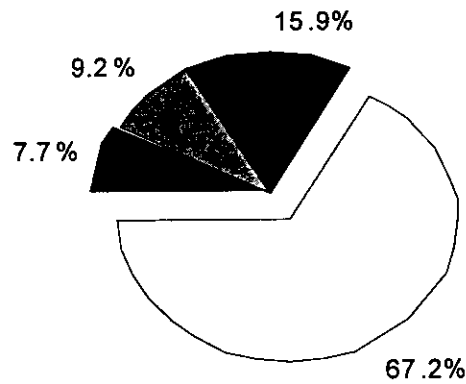
EMS transports by age







Alexandria EMS Patients By Age

FY 1995

FY 2000



-  Ages 54 and Under
-  Ages 65-74
-  Ages 55-64
-  Ages 75 and Over

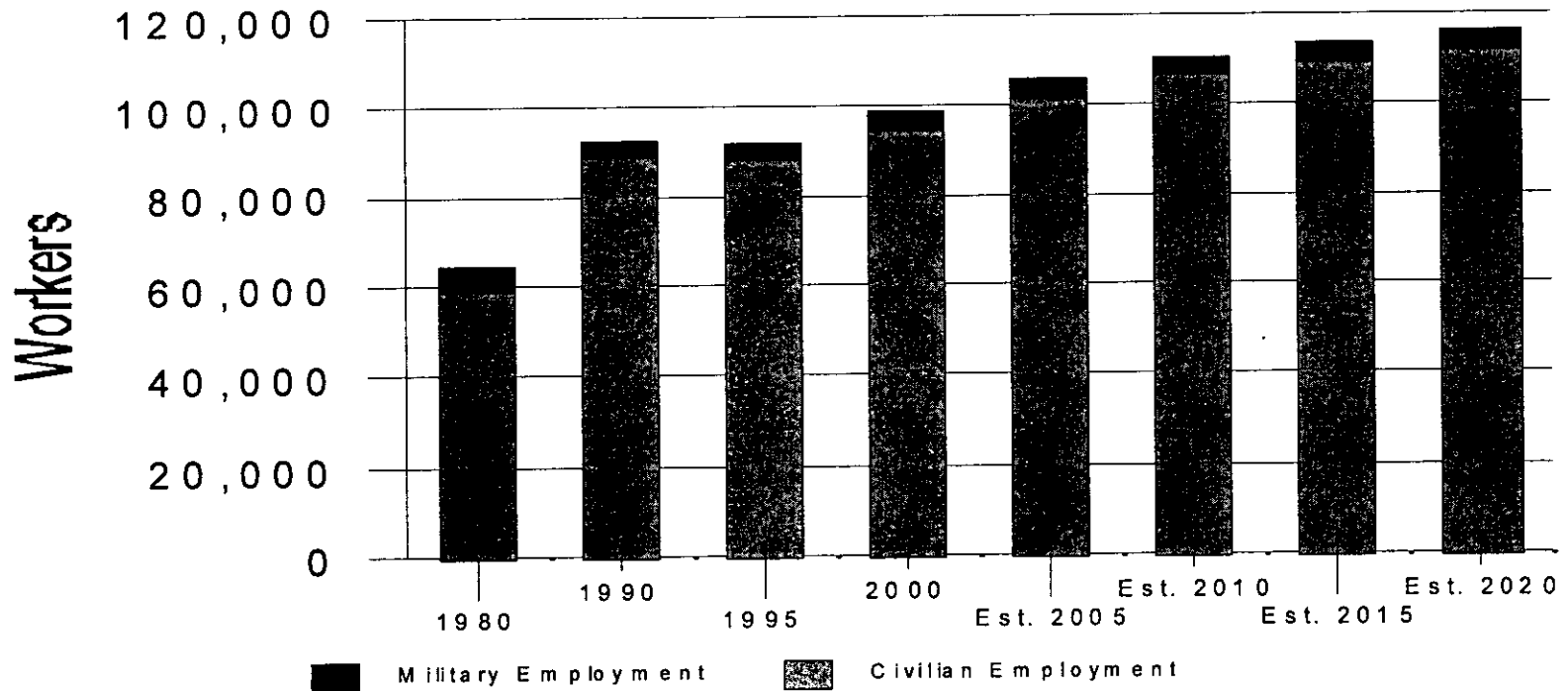
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City employment

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Alexandria's Total Employment
Civilian and Military 1980--2020



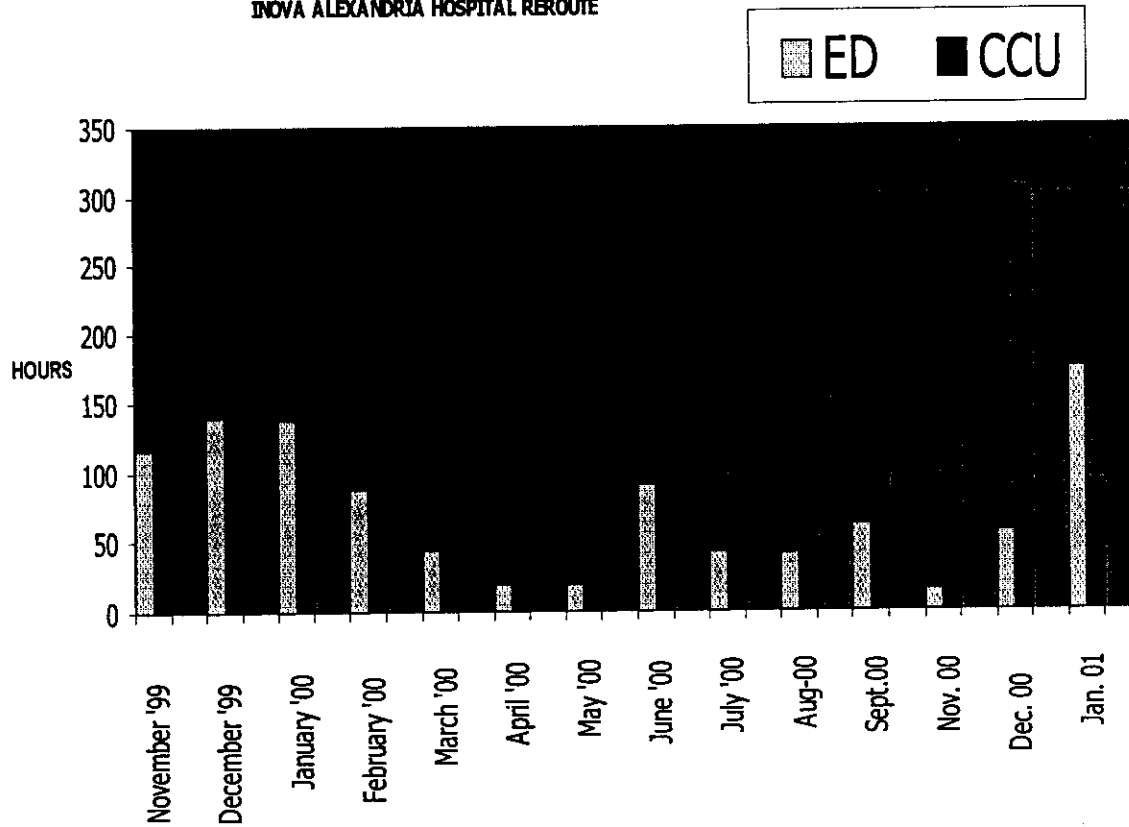
Virginia Employment Commission

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INOVA ALEXANDRIA HOSPITAL REROUTE



November 1999 – February 2001

- Hospital closed
- Area hospitals become saturated
- Hospitals begin “reroute” of patients to distant hospitals

Definitions:

- Ed reroute = Emergency Department normally closed to “stable” patients
- CCU reroute = Emergency department closed to “stable” patients in need of admission to critical care

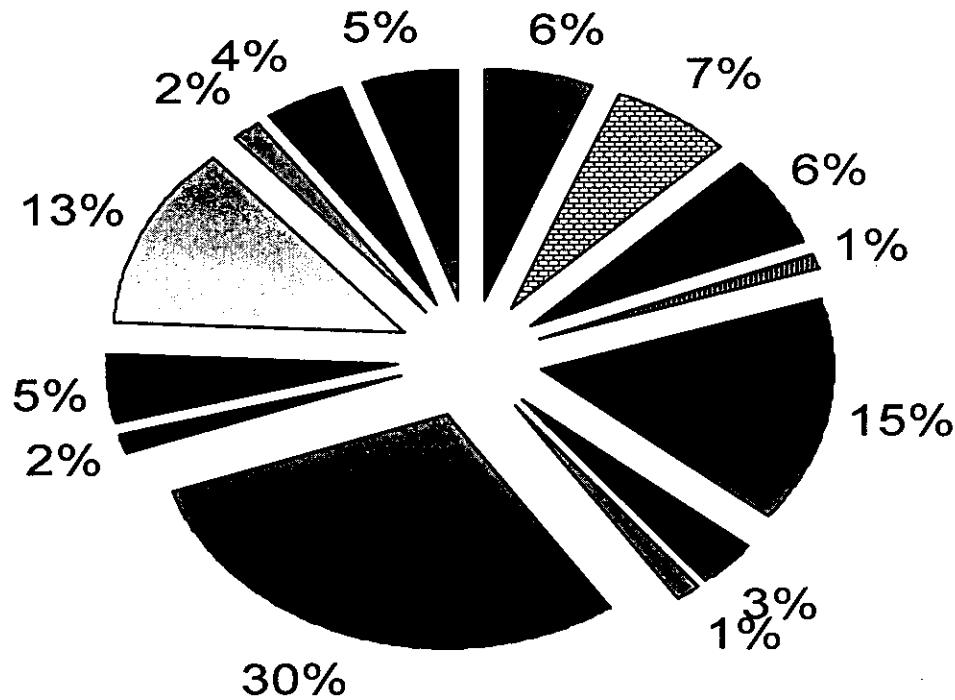
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FY 2000 EMS Transports by diagnosis

Patient's Primary Diagnosis

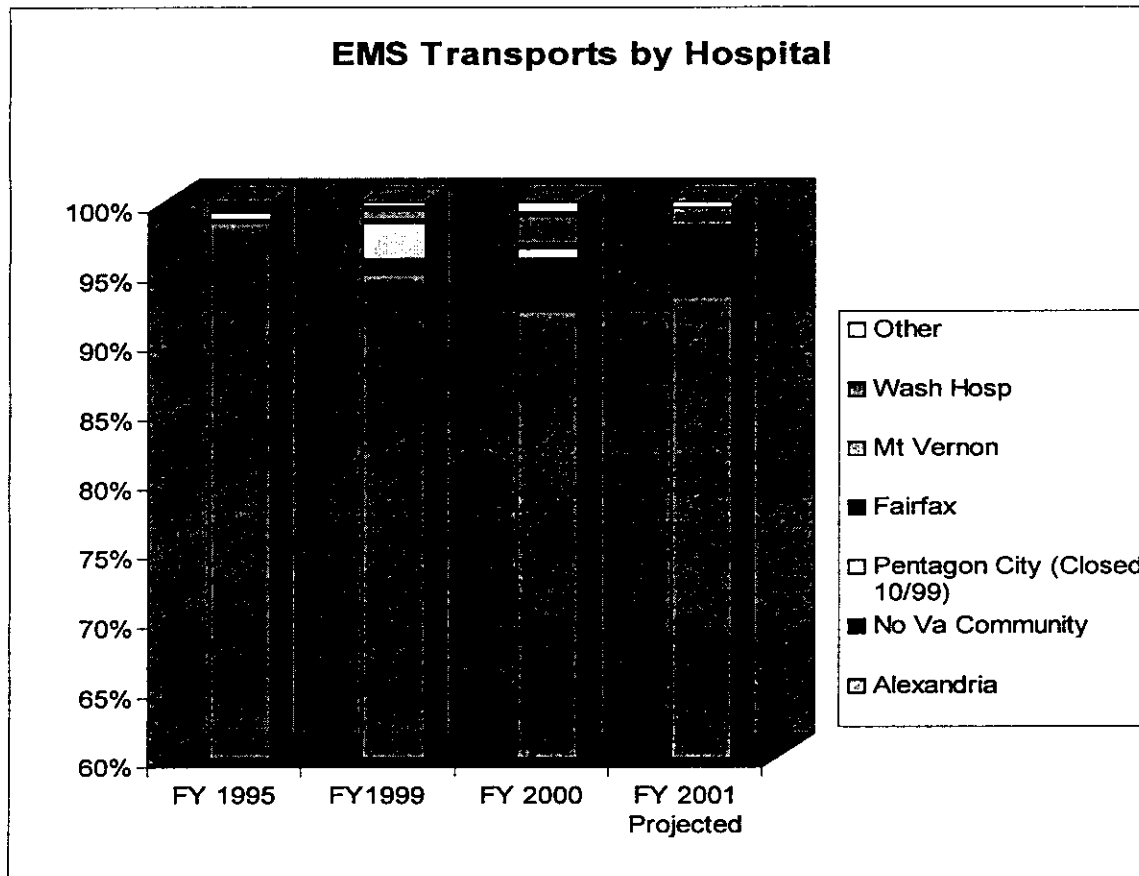


- Abdominal Pain 6%
- ▣ Breathing/Allergic Reaction 7%
- Heart Related 6%
- ▣ Fall Accident 1%
- Other Illness 15%
- Headache/Flu 3%
- ▣ OB 1%
- Injury General 30%
- Joint/Musculo Skeletal 2%
- Mental/Psychological 5%
- Cuts Bumps Bruises 13%
- ▣ Overdose/Poisoning 2%
- Seizure/Unconscious/Stroke 4%
- Strain 5%



Patient Destination

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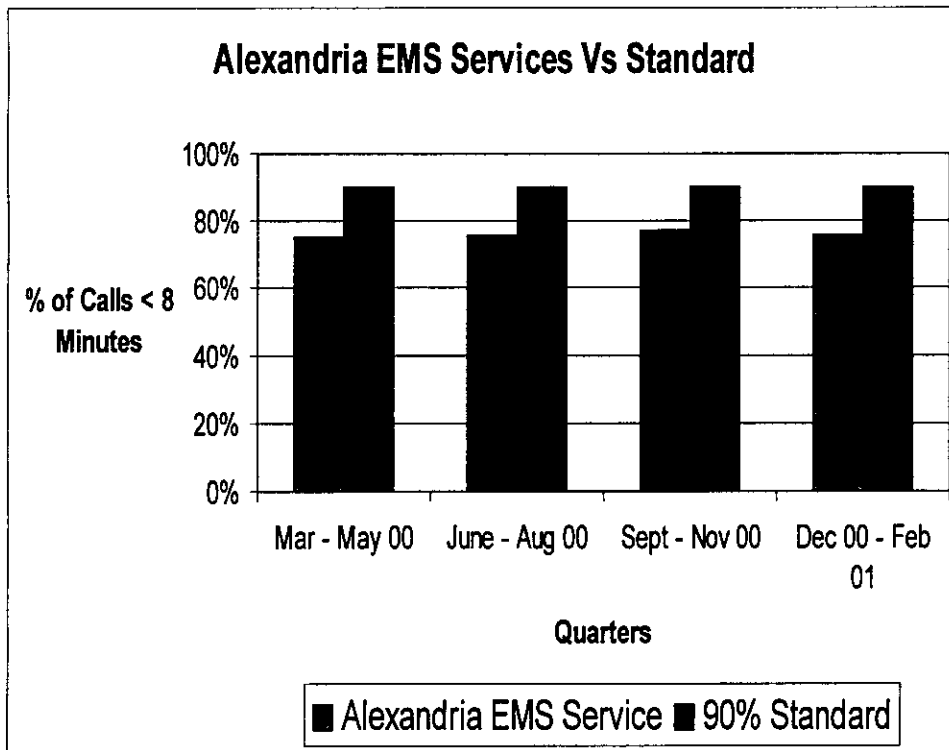
- Alexandria Hospital gives up Trauma status - 1995
- Virginia State requires trauma patients go to a Trauma facility
- Extended transport time and return to City

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Alexandria Response Time Standard



“Citizens of Alexandria deserve the best chance to survive in the event of cardiac or respiratory arrest. Therefore, EMS resources in the City must be provided at a level that places ALS providers at the patient in 8 minutes or less at least 90% of the time.”

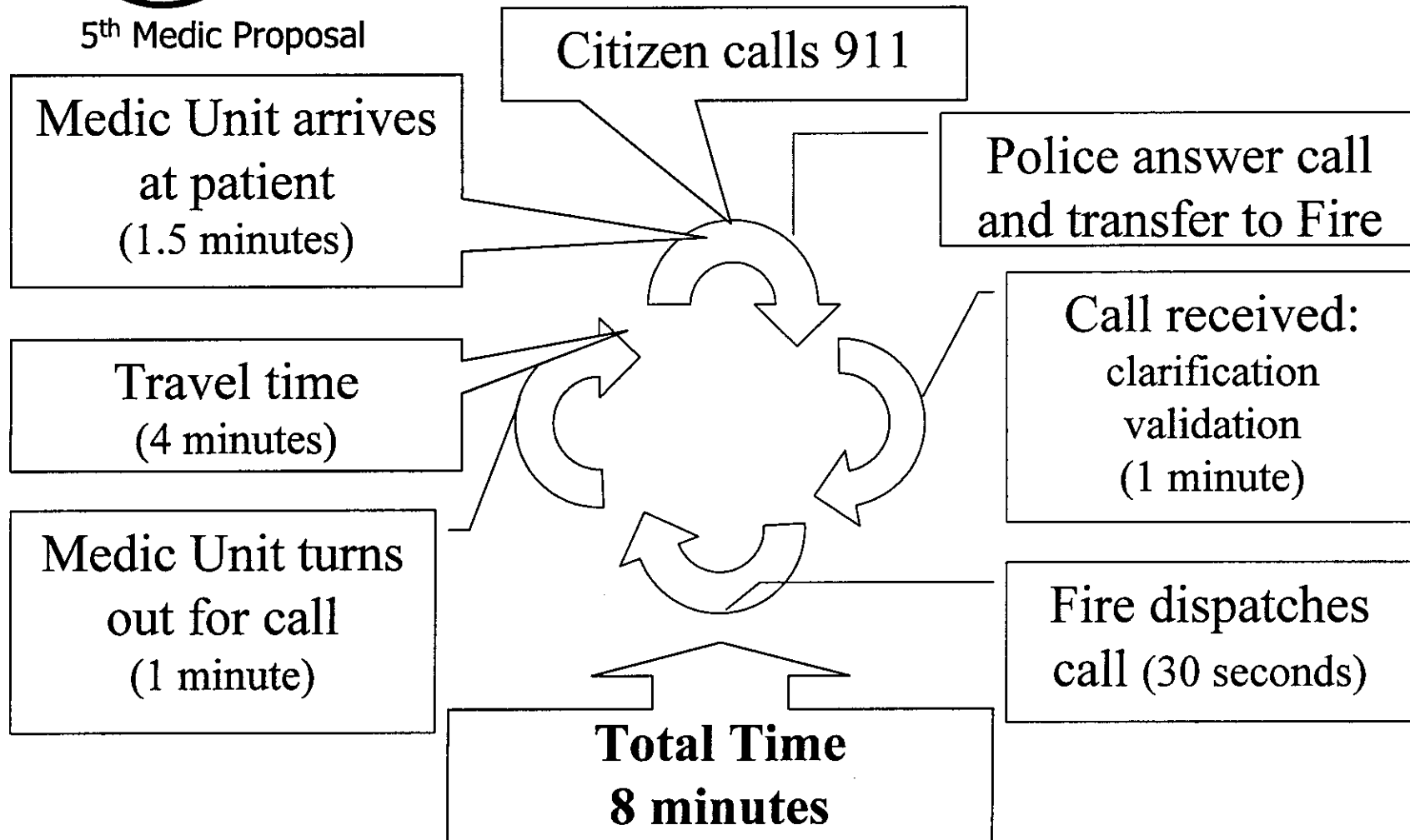
Dr. James Vafier, Operational Medical Director, AFD

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Components of Response Times

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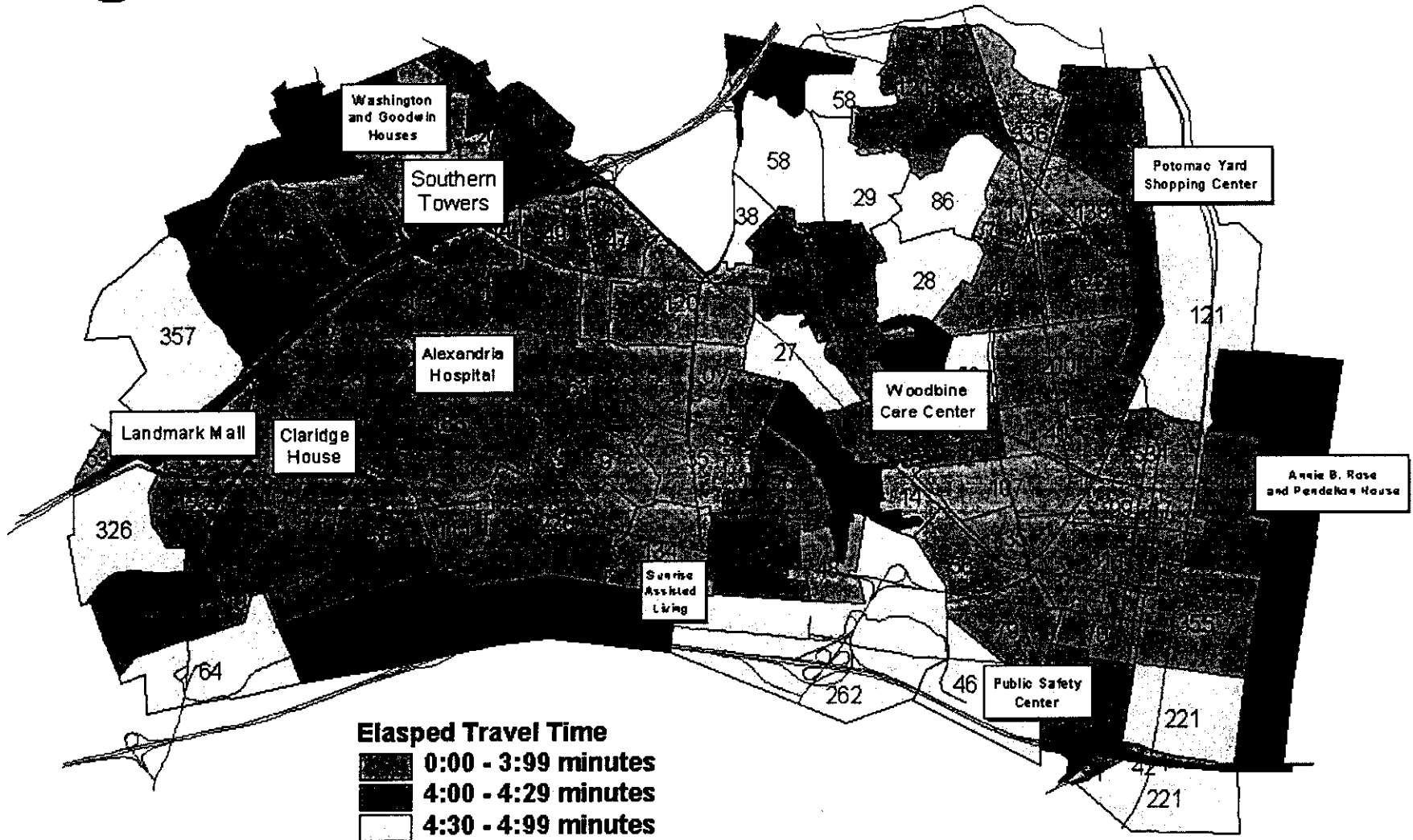


Total Time
8 minutes

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Emergency Medical Service



Actual Travel Time to Zone Boxes

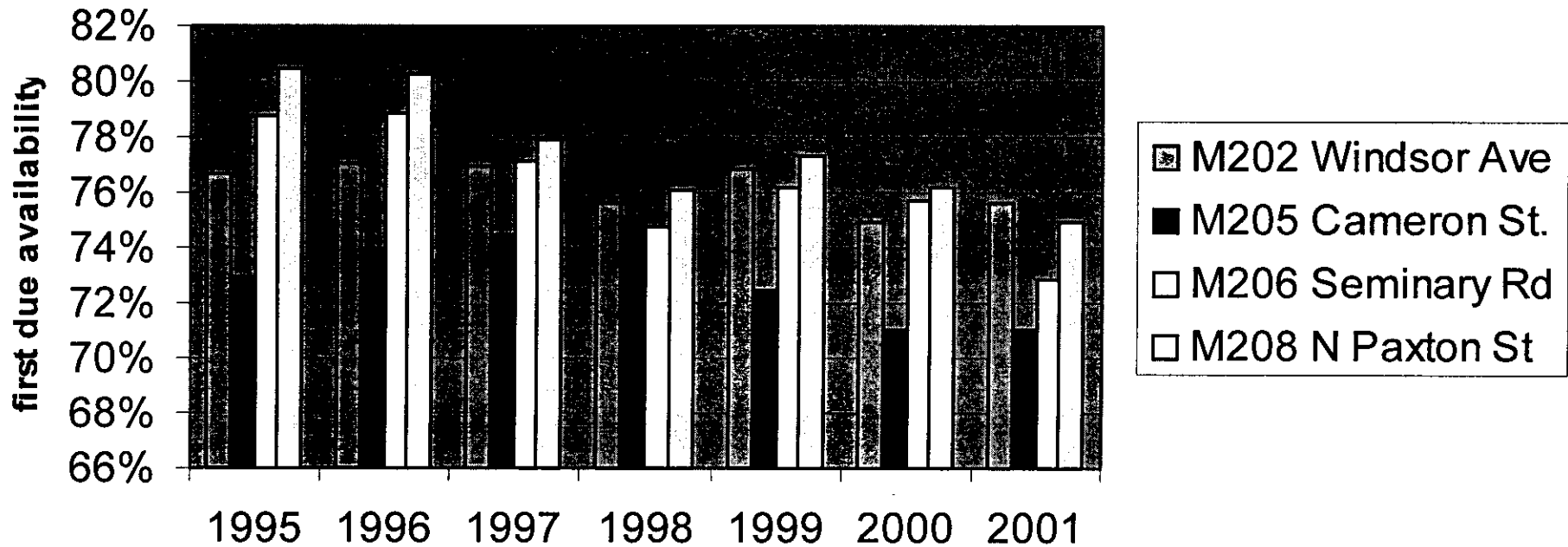




5th Medic Proposal

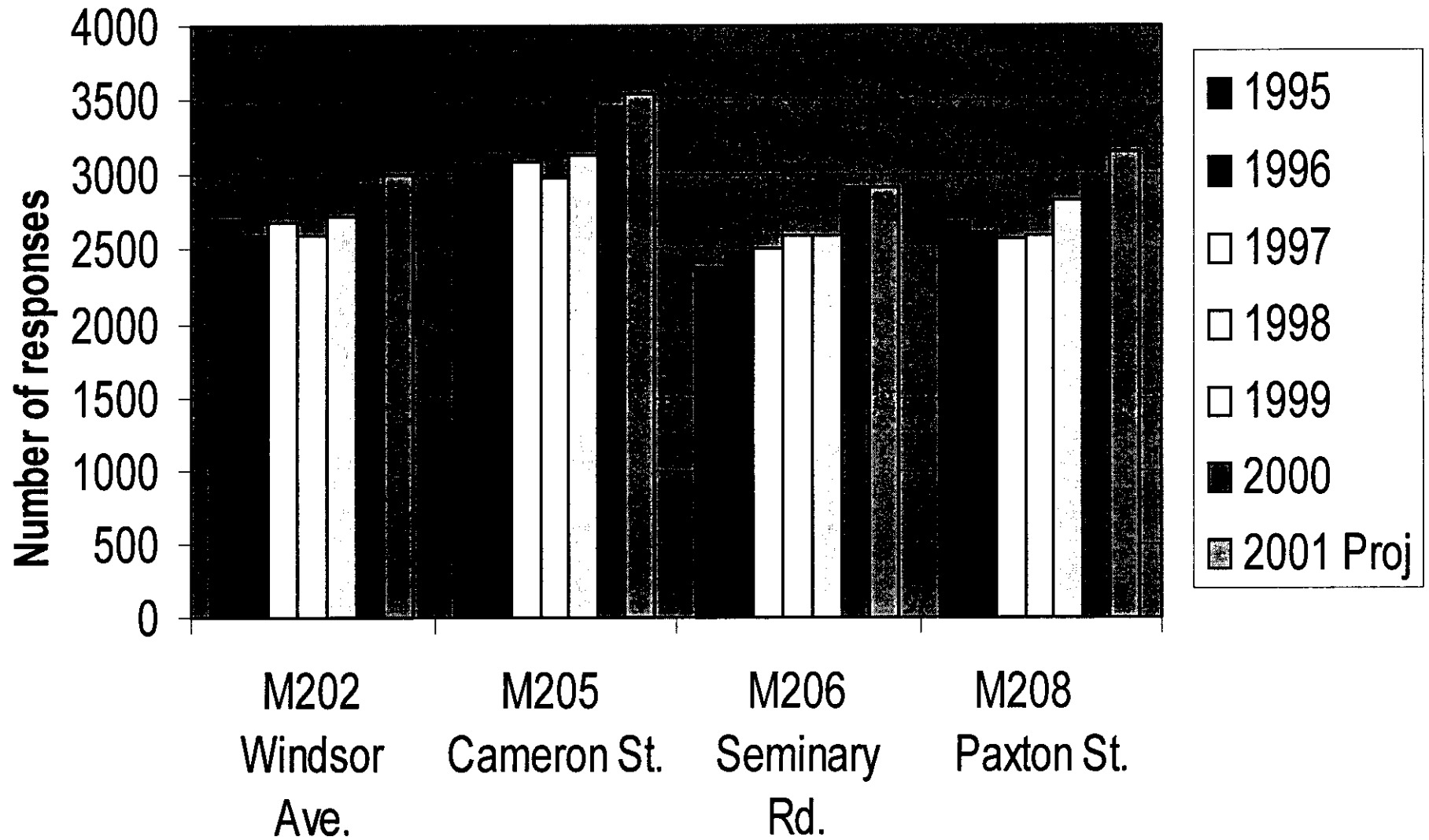
Primary area performance of assigned Medic Unit

% of Calls Responded to by 1st Due Medic Unit



Emergency Medical Service

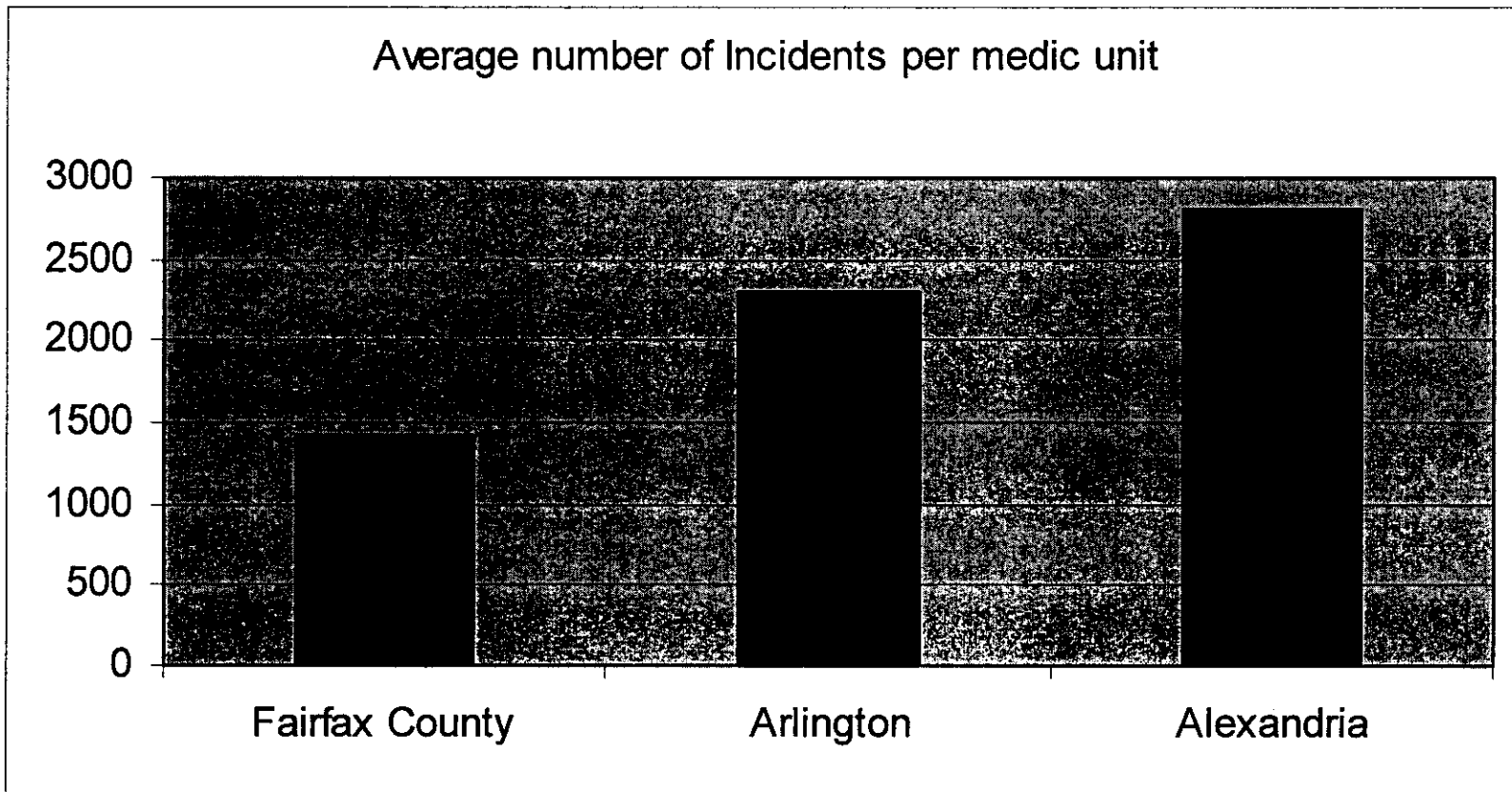
EMS Responses by Medic Unit





Comparison of Jurisdictions FY 2000

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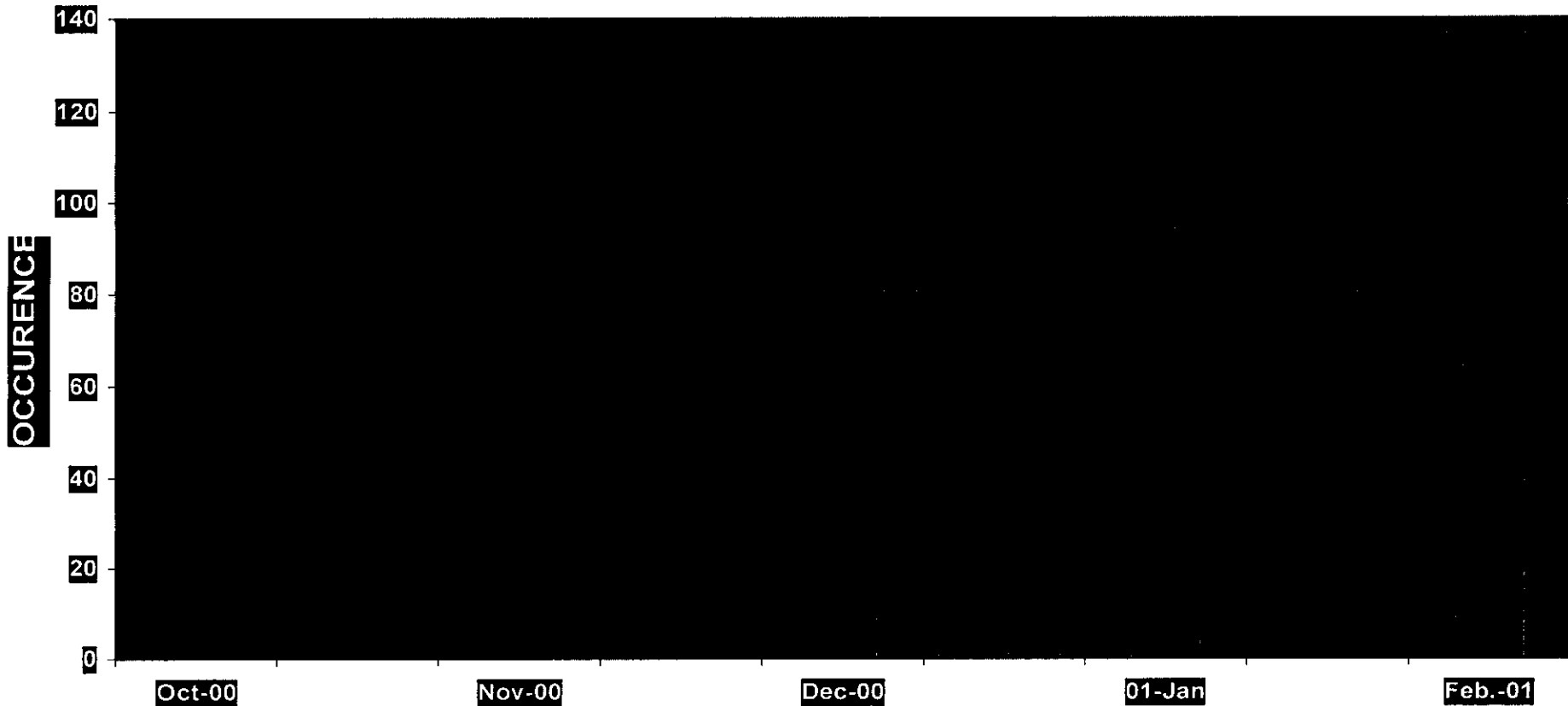


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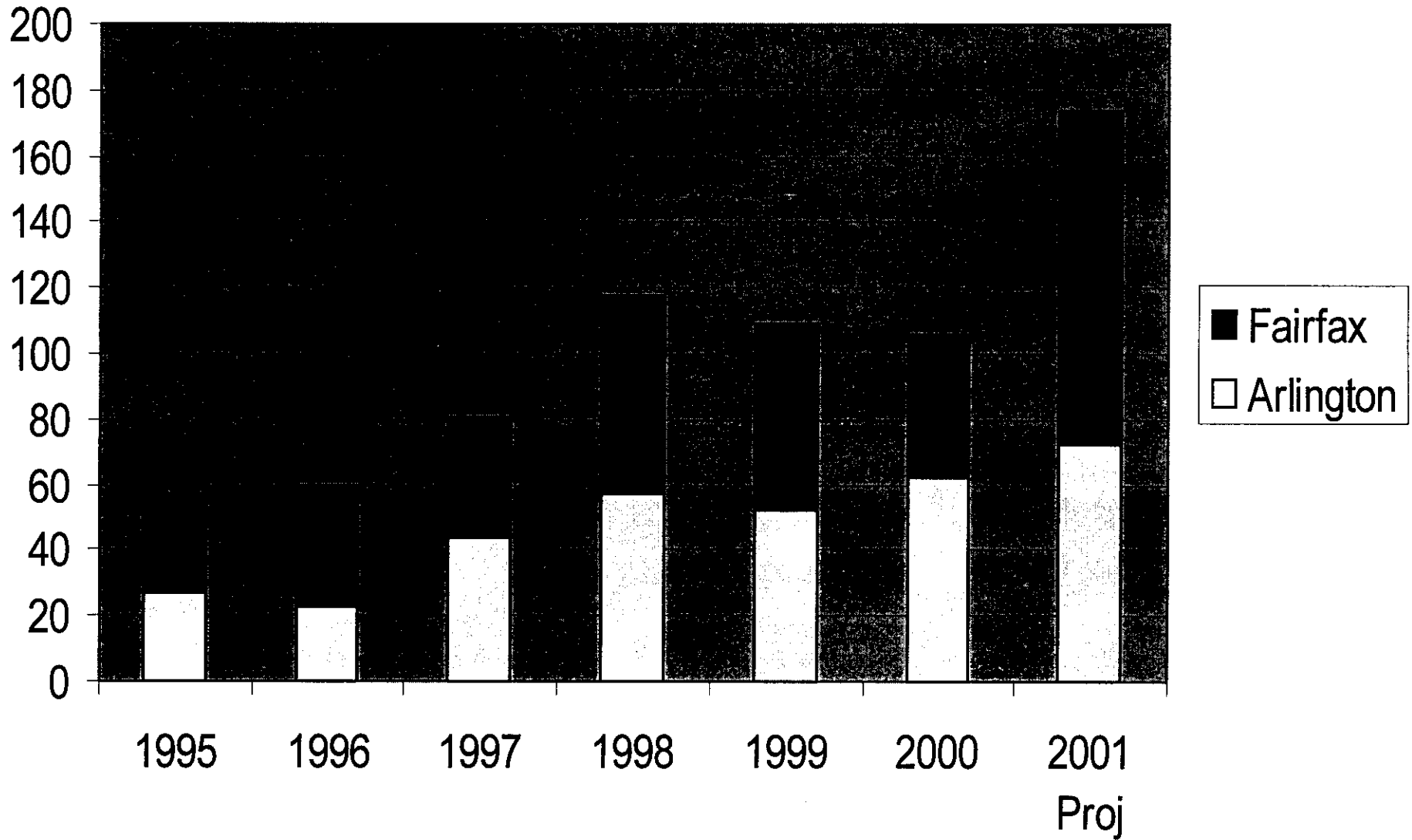
Number of occasions with Zero or only one Medic Unit in City

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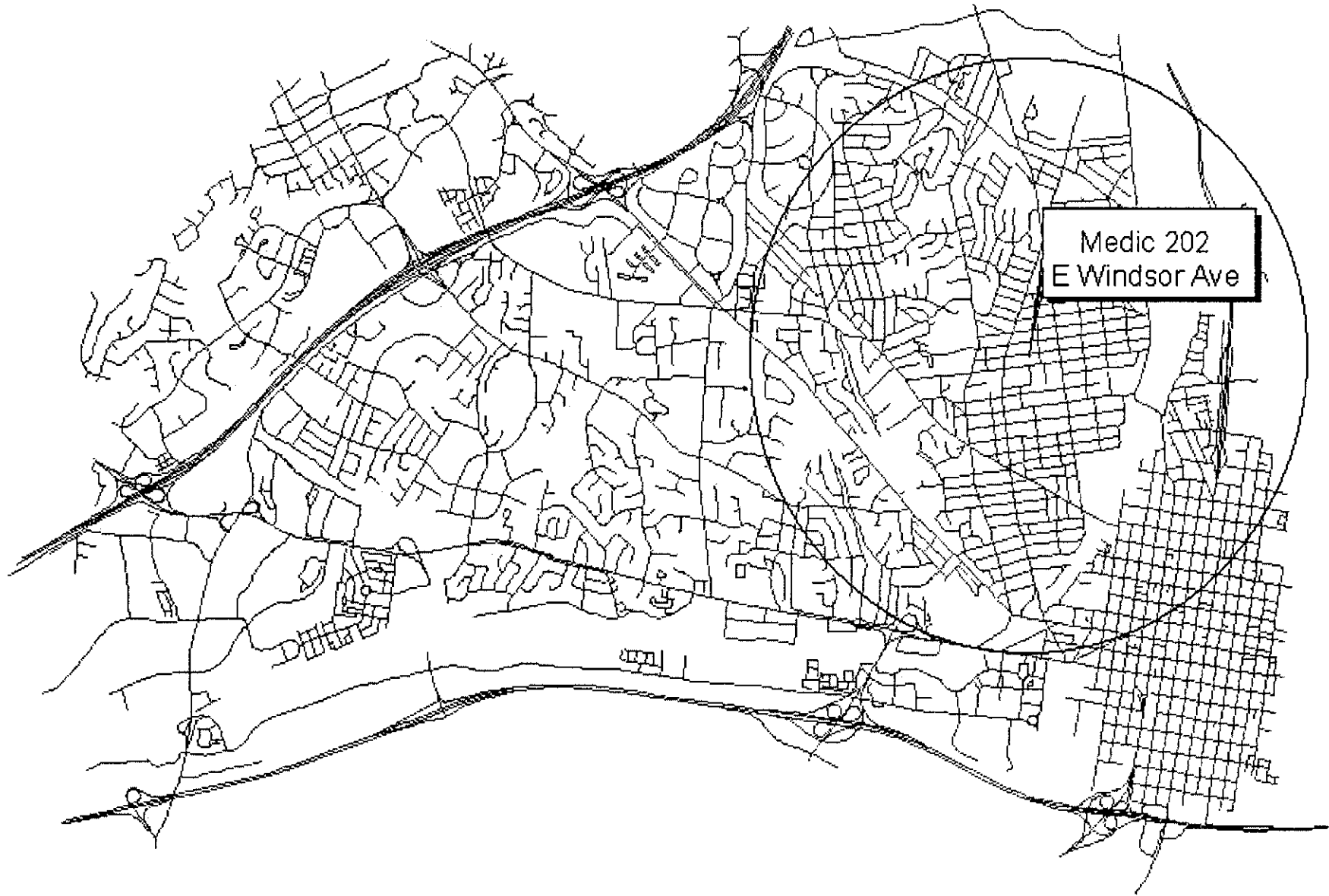


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EMS Responses Provided from Other Jurisdictions



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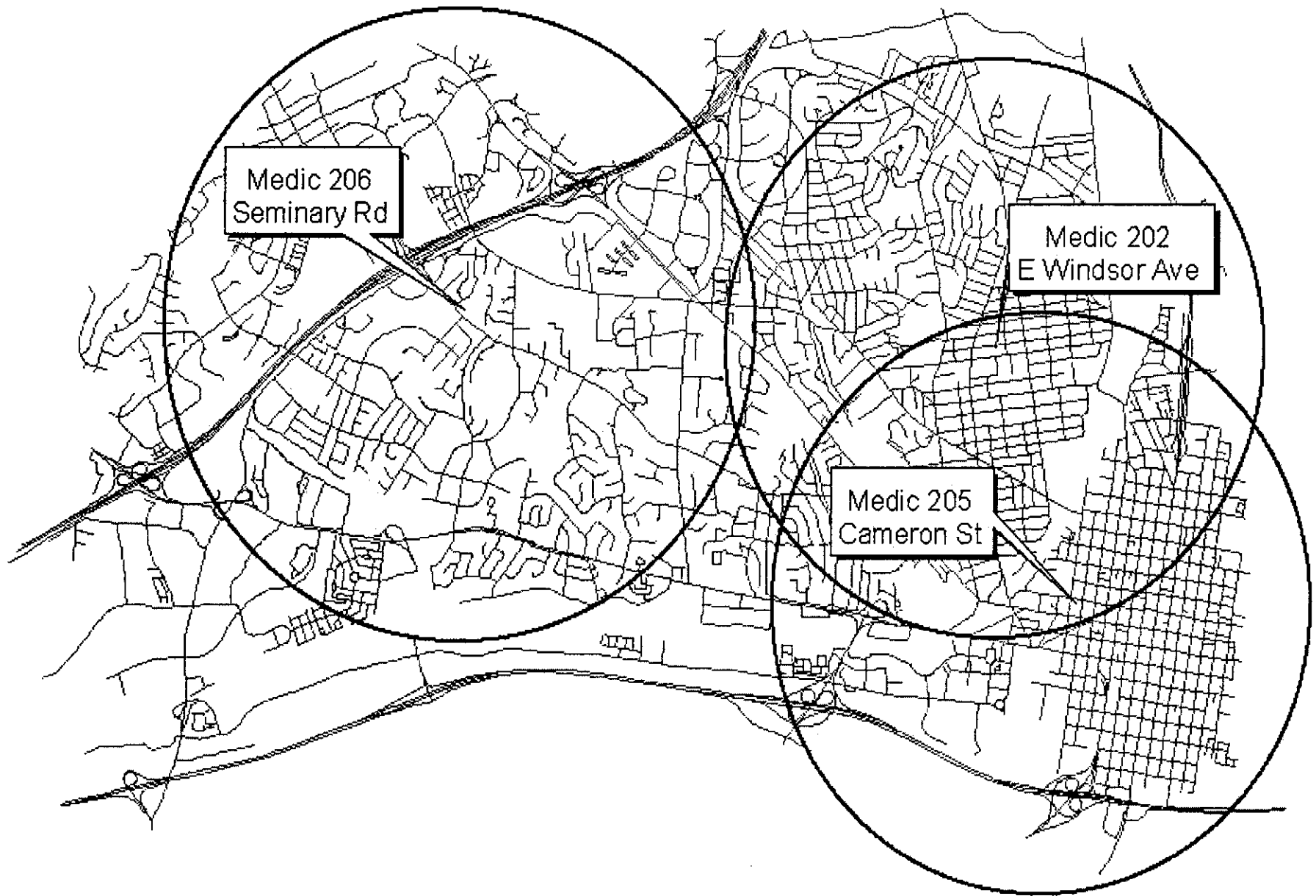


Medic 202
E Windsor Ave



Medic 202
E Windsor Ave

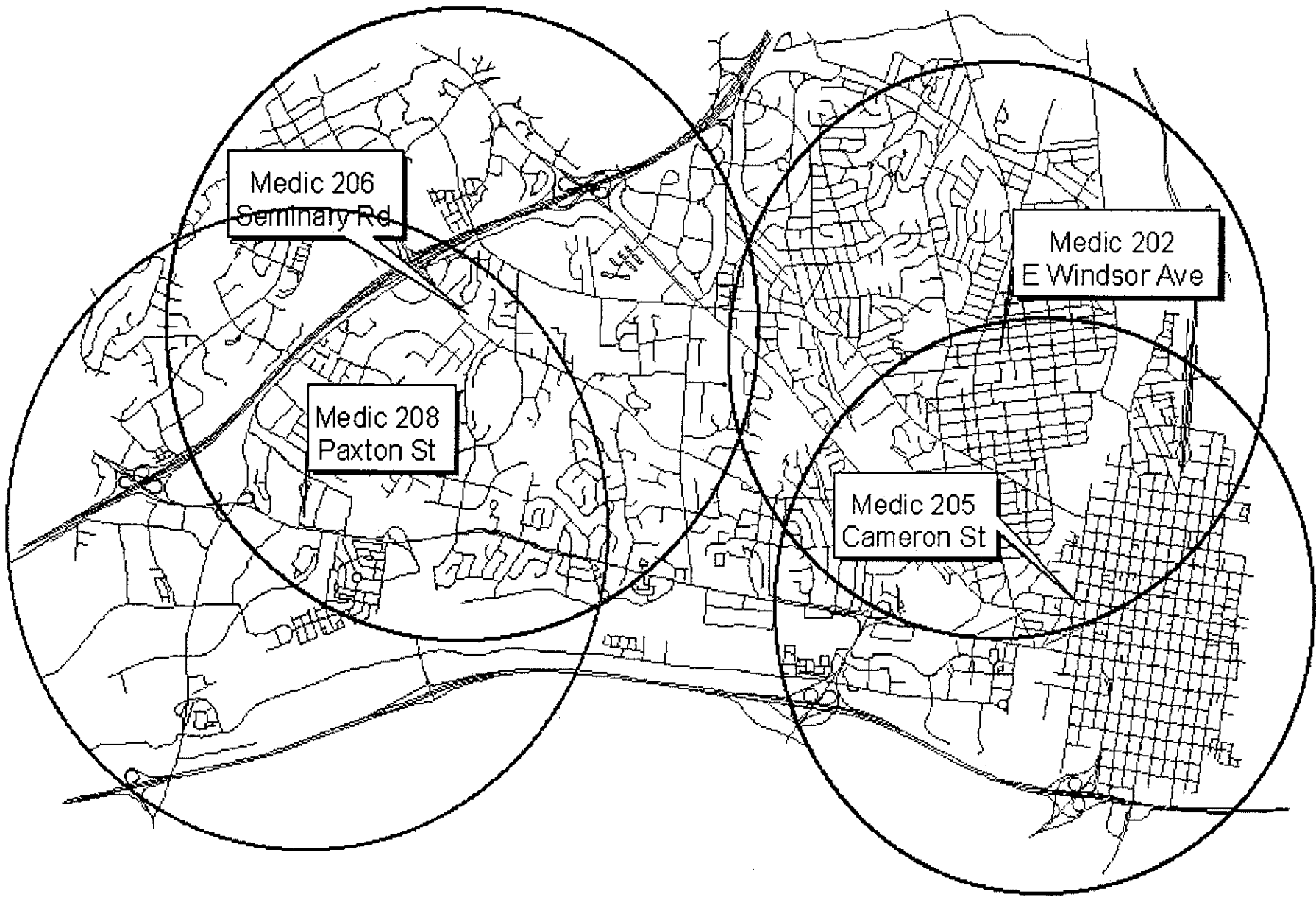
Medic 205
Cameron St



Medic 206
Seminary Rd

Medic 202
E Windsor Ave

Medic 205
Cameron St

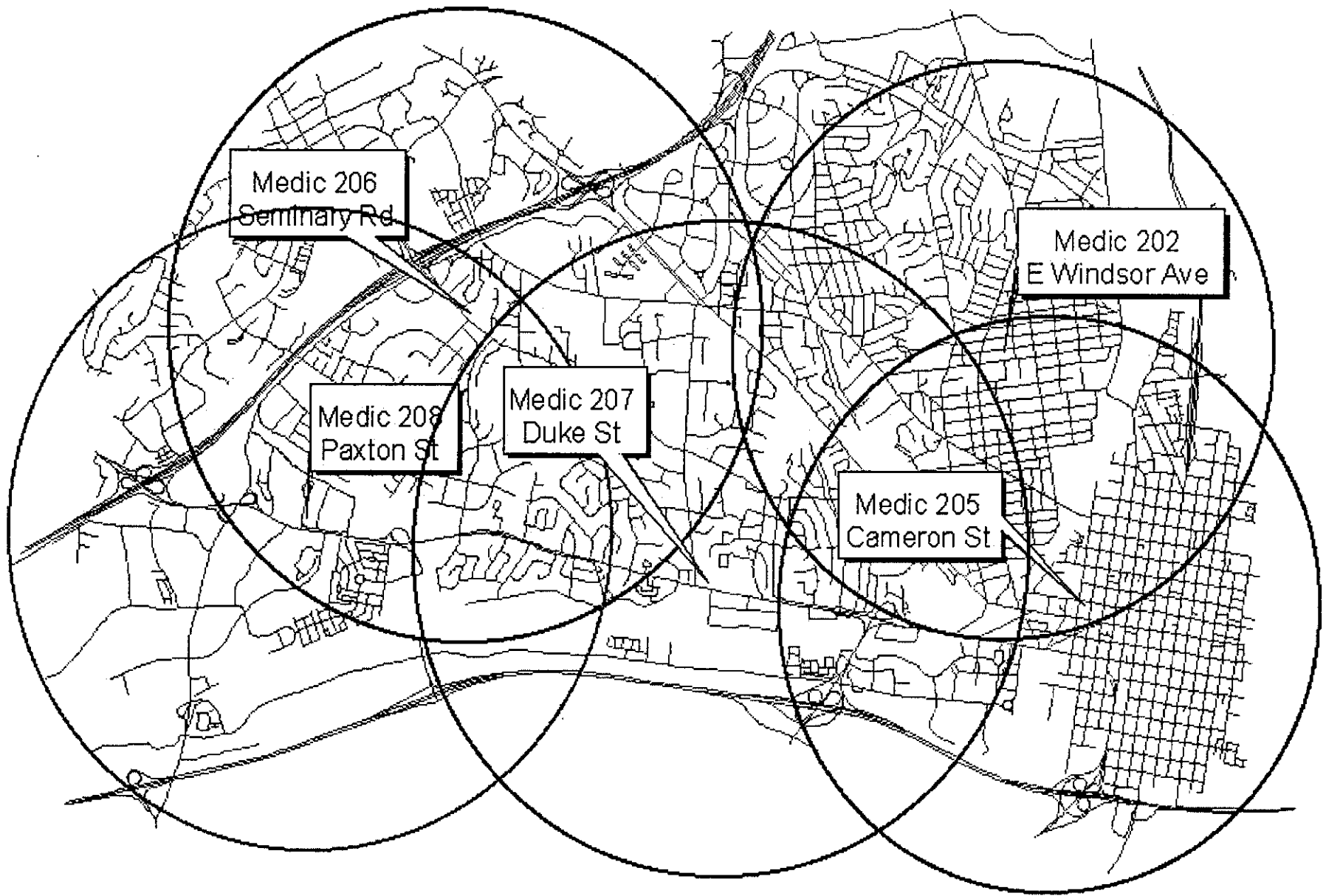


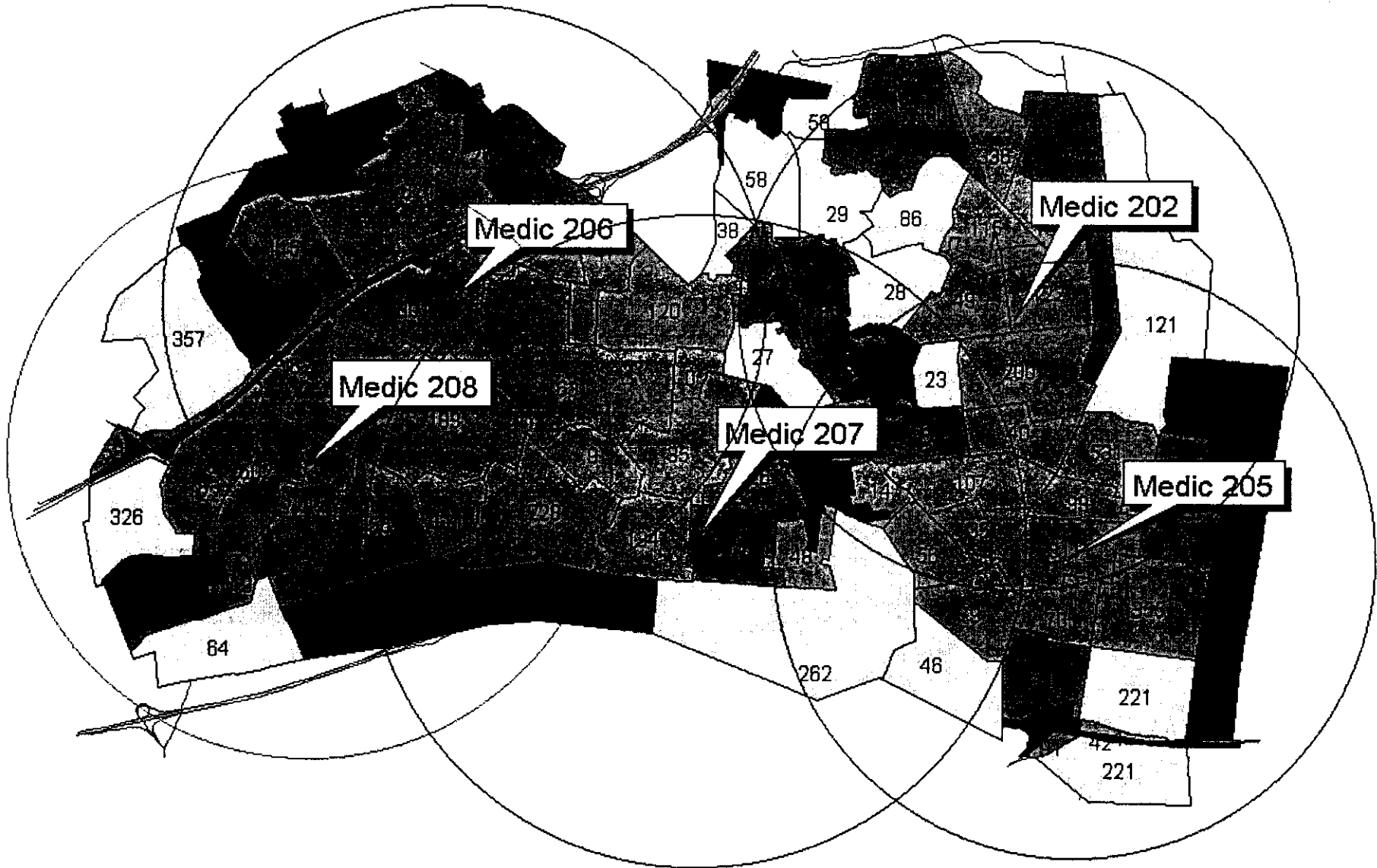
Medic 206
Seminary Rd

Medic 208
Paxton St

Medic 205
Cameron St

Medic 202
E Windsor Ave







Benefits of 5th Medic Unit

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- Increased ability to meet the response time standard
- Mitigates delay due to reroute and trauma transports
- Improves opportunity to save the lives of cardiac and respiratory arrest victims
- Reduces reliance on outside jurisdictions
- Reduces prime unit response delays

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5th Medic Proposal

THANK YOU



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