THE CHALLENGE OF FREQUENT USERS TO ATLANTA EMS

Arthur H. Yancey II, MD, MPH Associate Professor of Emergency Medicine Emory University School of Medicine Medical Director of Grady EMS Atlanta, Georgia

THE CHALLENGE OF FREQUENT USERS TO ATLANTA EMS

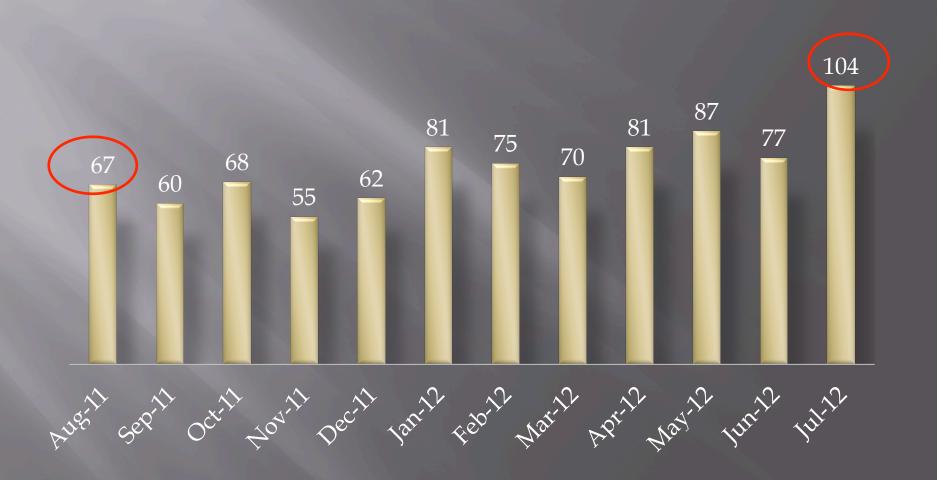
■ THE SETTING

- Popul., City of Atlanta (COA) in Fulton Co.: 600,000
- COA 9-1-1 Medical Calls
 - August, 2011- July, 2012: 100,875
 - Monthly average: 8,406 calls
- COA 9-1-1 EMS Transports
 - August, 2011- July, 2012: 73,799
 - Monthly average: 6,150 transports

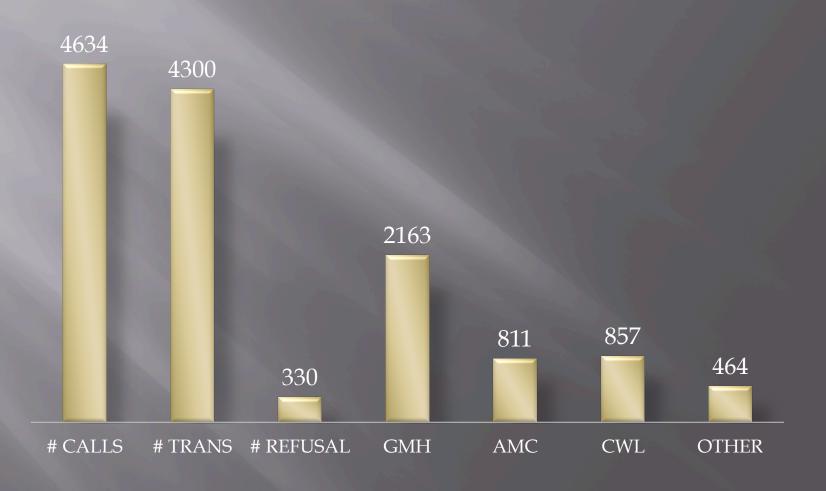
Grady EMS



NUMBER OF FREQUENT CALLERS



Frequent Caller Breakdown

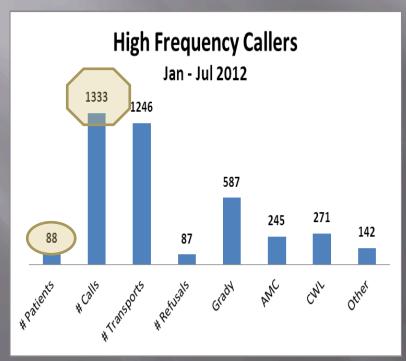


August 2011 - July 2012

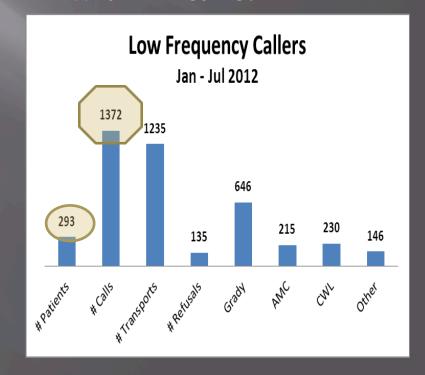
Caller Comparison

HIGH VOLUME CALLERS LOW VOLUME CALLERS

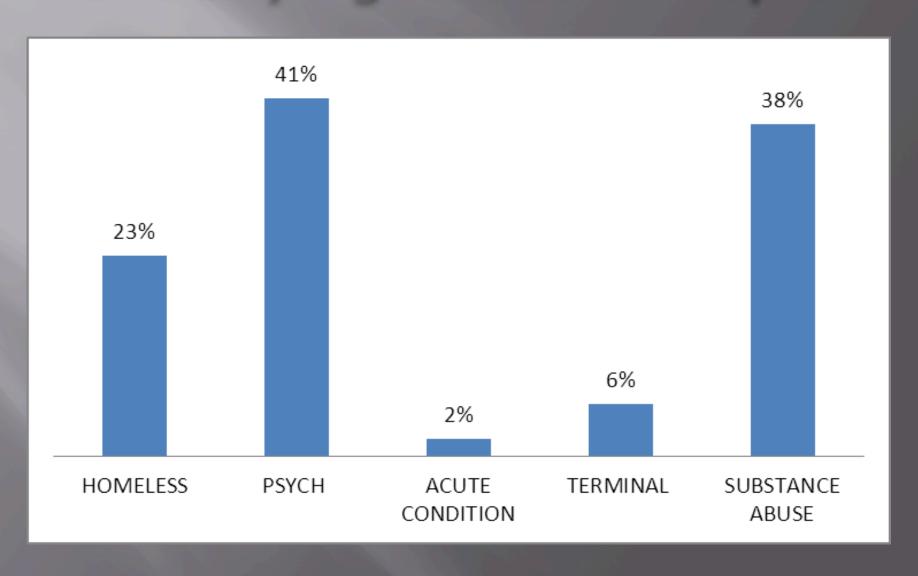
 Appear in 3 or more months with 4+ calls.



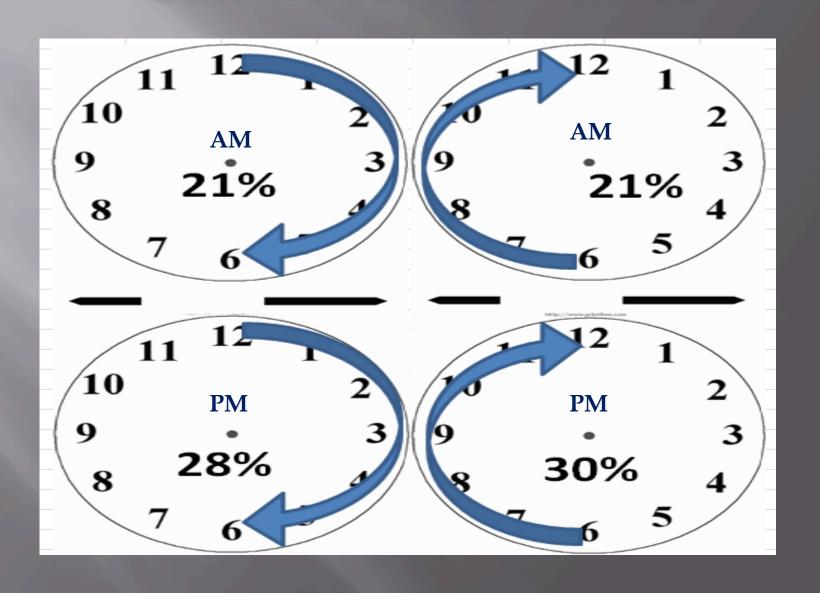
 Appear in only 1 month with 4+ calls.



Underlying Issues of Top 88



Call Received Times



Financial Impact to GEMS

- Sum of Current Charges
- Sum of All Payments
- Sum of Adjustments
- Balance

- **\$12,979,136.10**
- **\$1,592,103.36**
- **57,084,234.50**
- \$4,302,797.24

RELEVANT PUBLICATIONS

- 1. Pearson DA, Bruggman AR, Haukoos JS. Out-of-Hospital and Emergency Department Utilization by Adult Homeless Patients. Annals of Emergency Medicine 2007; 50(6): 646-652
- 2. Brokaw J, Olson L, Fullerton L, etc. Repeated Ambulance Use by Patients with Acute Alcohol Intoxication, Seizure Disorder, and Respiratory Illness. American Journal of Emergency Medicine 1998; 16(2): 141-144

RELEVANT PUBLICATIONS

- 3. Weiss SJ, Ernst AA, Ong M, etc. Effect of a Social Services Intervention Among 911 Repeat Users. The American Journal of Emergency Medicine 2005; 23: 492-496
- 4. Rinke ML, Dietrich E, Kodeck T, etc. Operation Care: A Pilot Case Management Intervention for Frequent Emergency Medical System Users. The American Journal of Emergency Medicine 2012; 30: 352-357

THE INTERVENTION

Goals:

- Recruit expertise in psychiatric/substance abuse
- Apply targeted expert eval at point-of-patient contact (value of addressing patient needs at point of maximum need: "the front end of EMS")
- Direct/transport patient to definitive care resources (medical screening/clearance on-scene)

Assessment Measures

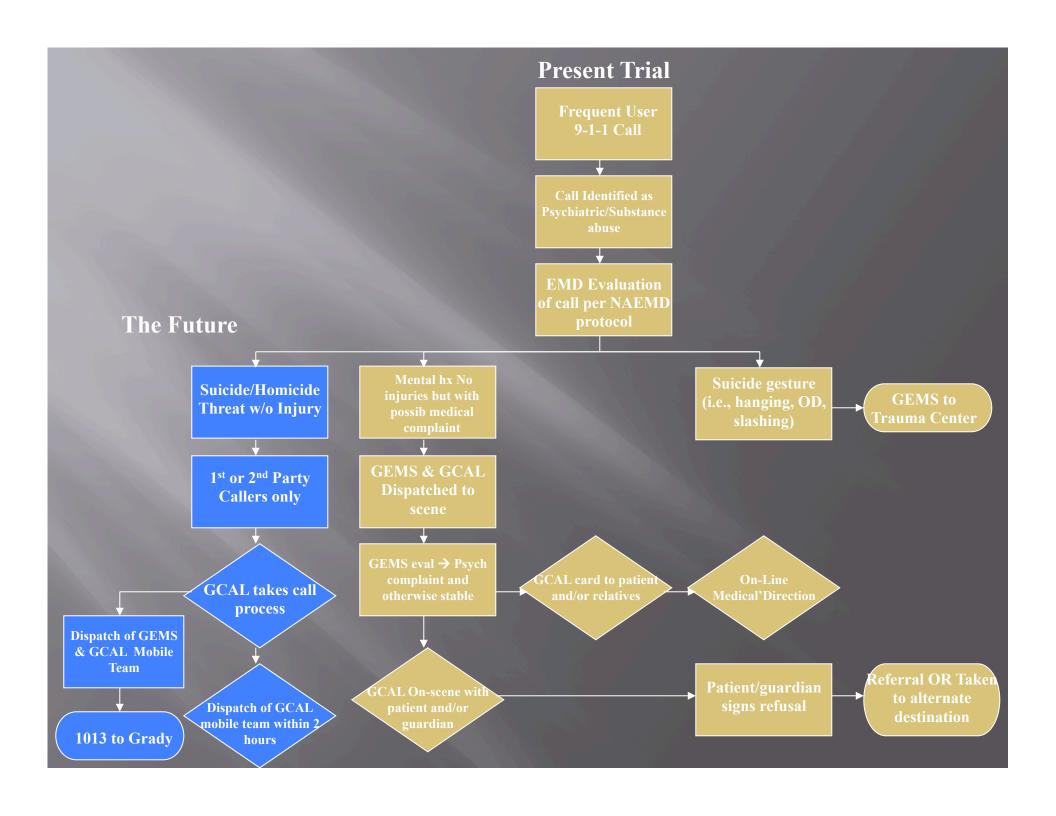
- Transports to emergency departments
- Patient need resolution on-scene
- Patient medical complication rate

PILOT TEAM DESIGN

- Grady EMS transport medics
- Grady EMS Behavioral Health Liaison (supervisor & GCAL personnel)
- Georgia Crisis Access Line (GCAL) coresponders
 - Operated by Behavioral Health Link
 - Funded by the Georgia Department of Behavioral Health and Developmental Disabilities (DBHDD)
 - Staffed with Licensed Psychiatric Counselors & Licensed Clinical Social Workers

PILOT PROCESS

- MPDS Determinate Code 25 (psychiatric) calls monitored by GEMS supervisor
- GEMS supervisor/GCAL personnel respond
- 9-1-1 GEMS transport unit co-responds
- Grady EMS medical evaluation per Fulton
 County EMS Clinical Care Guidelines
- Behavioral evaluation per GCAL protocols
- Patient disposition as per diagram



TRIAL (3 WKS) RESULTS

- Determinate Code 25 Calls/dispatches: 82
- On-scene patient interfaces: 59
- Mandatory Psych. Transports: 26
- Medical-trauma transports 4
- Non-transports: 29 (50%)
 - Outpatient appointments: 12
 - Referral to prev. case management: 4
 - GCAL mobile crisis team eval/management: 4
 - Refusal of care & GCAL referral card provision: 9



STRATEGY FOR THE FUTURE

- What patient problems generate the largest population proportions of demand for service?
- What EMS links can be developed to services that provide definitive care for these populations
- How can EMS systems engineering engage those services for co-response on the front end of demand for service (EMD, response levels)
- What resolutions can be attained at point-ofcall or point-of-patient contact (UPSTREAM!)