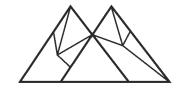


Report on EMS Service & Vehicle License Applications

7.26.2023

Joseph H. Joo, MD Value & Systems Science Lab University of Washington, Department of Medicine jhjoo9@uw.edu



Outline

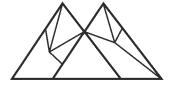


I. Sample of Applications

II. Selected Findings

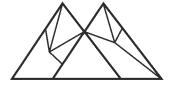
- Primary Responses
- Combined Transports
- Paid Staff
- Ambulances
- Dispatch and Response Plans

III. Conclusions





Sample of Applications



Sample of Applications



GA provider organization types with highest number of transports (7)

Private for profit

Fire districts

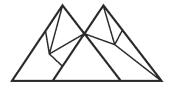
City fire department

City/fire district combination

Hospital district

EMS district

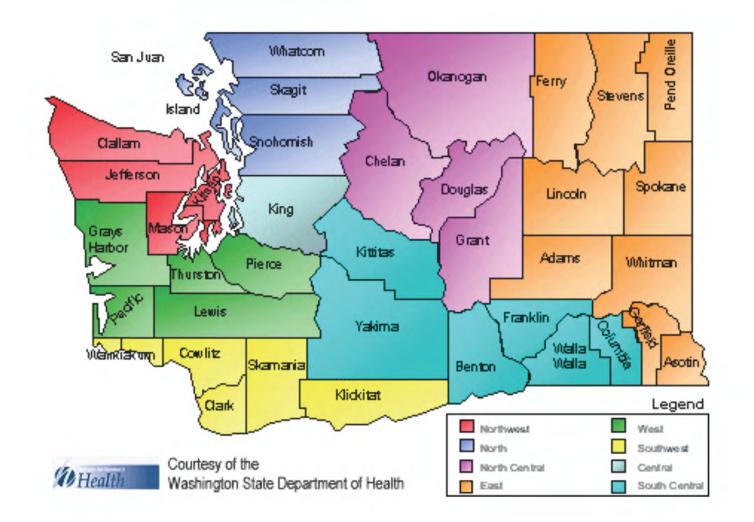
Municipality



Sample of Applications



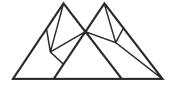
GA provider organizations from different regions in WA (8)







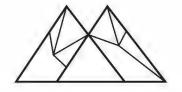
Selected Findings





Primary Responses

Table 2. Primary Response Counts				
Minimum	Maximum	25 th Percentile	50 th Percentile	75 th Percentile
0	110,000	3,600	9,725	14,480



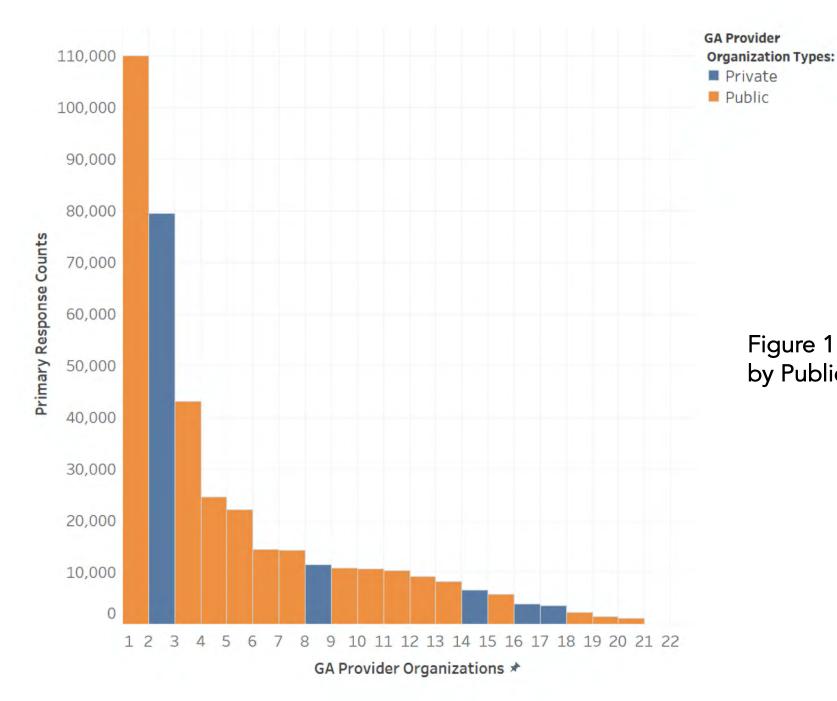
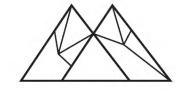




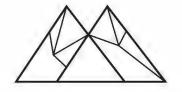
Figure 1. Primary Response Counts by Public vs. Private Organization Status





Combined Transports

Table 4. Combined Transport Counts				
Minimum	Maximum	25 th Percentile	50 th Percentile	75 th Percentile
906	54,038	3,797	5,690.5	10,000



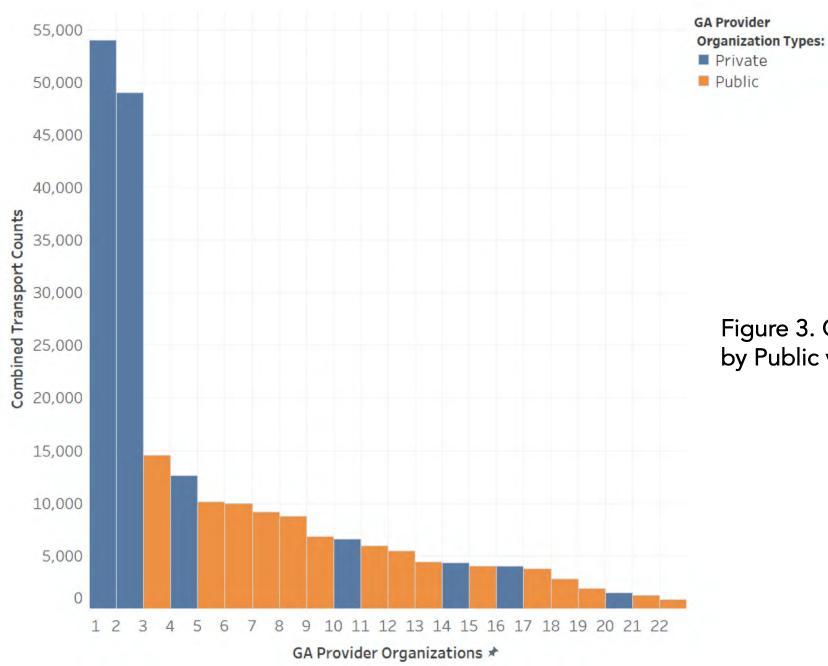
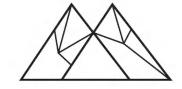




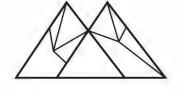
Figure 3. Combined Transport Counts by Public vs. Private Organization Status





Paid Staff

Table 6. Paid Staff Counts				
Minimum	Maximum	25 th Percentile	50 th Percentile	75 th Percentile
20	1,000	39	78.5	205



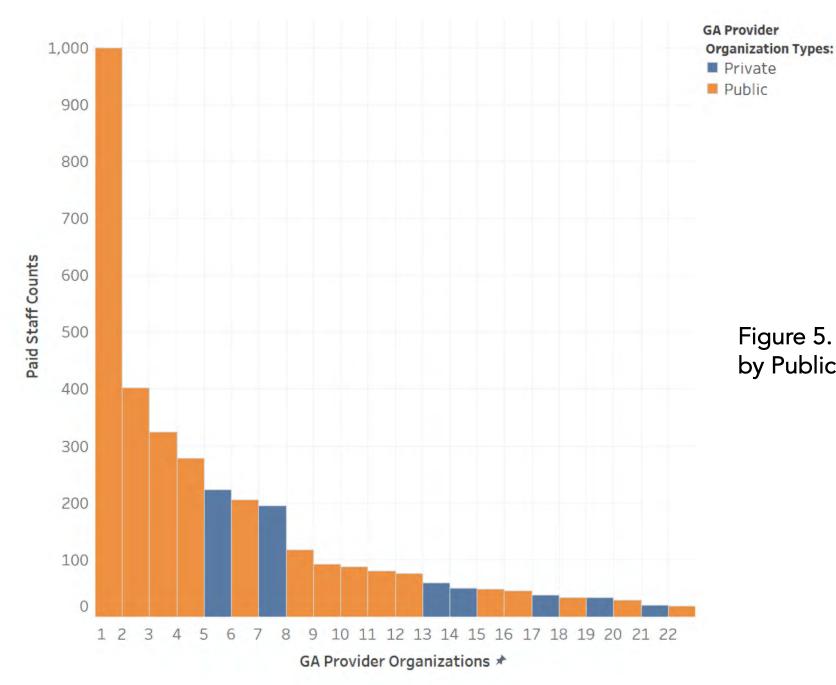
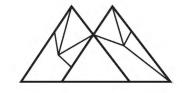




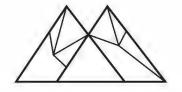
Figure 5. Paid Staff Counts by Public vs. Private Organization Status





Ambulances

Table 9. Ambulance Counts				
Minimum	Maximum	25 th Percentile	50 th Percentile	75 th Percentile
4	53	6	10	19



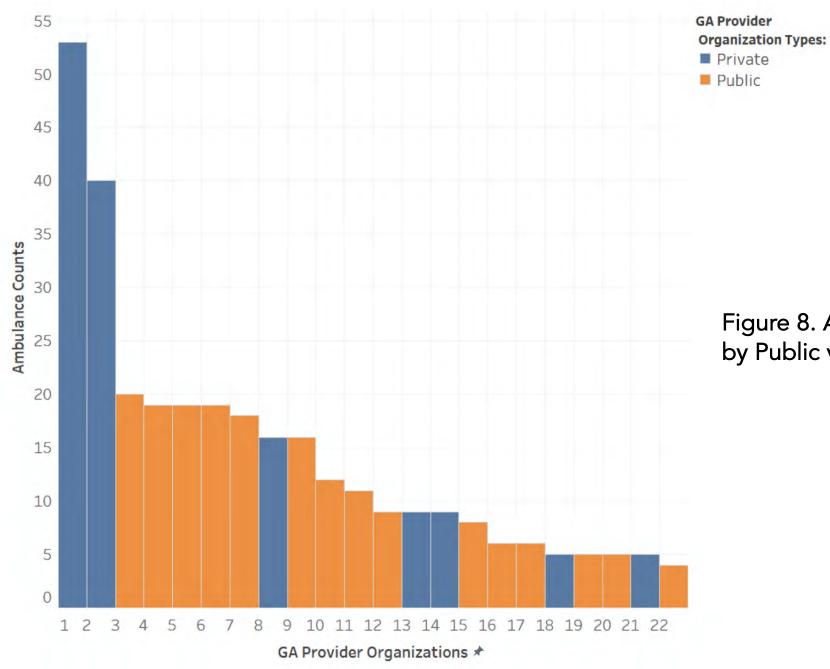
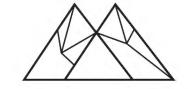




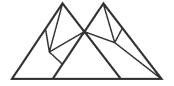
Figure 8. Ambulance Counts by Public vs. Private Organization Status





Dispatch Plans

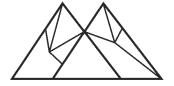
Table 10. Dispatch Plan Content			
Dimension	Greatest Detail	Least Detail	
Communication Systems	"All calls for assistance are placed through the 911 system. The call is answered by the 911 Center in, WA. Once the kind of assistance needed is identified the Dispatcher pages for the units to respond through a paging system, and an App. Units are given the nature of the call, address, and time of page. If units do not respond within 8 min the page is repeated. If the 2nd page goes unanswered the 911 Center will page District, miles to the south of or miles to the south of If Ambulance knows all the Ambulances are busy on other calls, we will instantly call for an agency assist from District or Ambulance with no patient delays 911 Center also paged the local 1st Responders from Districts and in the response area to contact and stabilize the patients before our arrival."	"County 911 system."	





Response Plans

Table 11. Response Plan Content			
Dimension	Dimension Greatest Detail		
Geographic Areas	" has fire stations located strategically within the fire district boundaries (sq miles). Staffed stations are located in the, WA and one at, WA provides 911 emergency response ALS ambulance transport to the one hospital in our jurisdiction, which is Medical Center Medical Center is a Level Trauma hospital, Level for stroke destination and Level for cardiac destination. We transport patients from our local facility to other metropolitan area hospitals (inter-facility) only as a backup to the local private ambulance provider, and"	"Initial 911 response in accordance with regional plan."	





Conclusions



Conclusions



Considerable variation observed in GA provider organizations with respect to responses, transports, staffing, and ambulances.

Few outlier GA provider organizations reporting high counts led to skewed findings.

Dispatch and response plans varied on details to dimensions such as communication systems and geographic areas.

