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MedEdPrep & GTC Insights: EMS Training Across Georgia

MedEdPrep has partnered with the Georgia Trauma Commission to support EMS education statewide. This is a snapshot of statewide and regional trends as measured through MedEdPrep analytics.

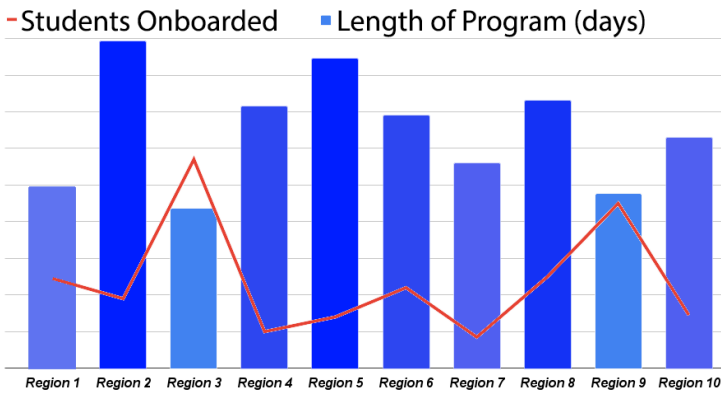
Data presented is from:

- 31 Schools
- All 10 EMS Regions
- 70,000+ Questions Seen
- 1,800+ Communication Points
- 479 Students
- 6 Standard Exams
- 300+ Topics
- 60+ Hours Supplemental Support
- 6 Months
- 1,000+ Total Exams Taken
- 385,000+ Data Points

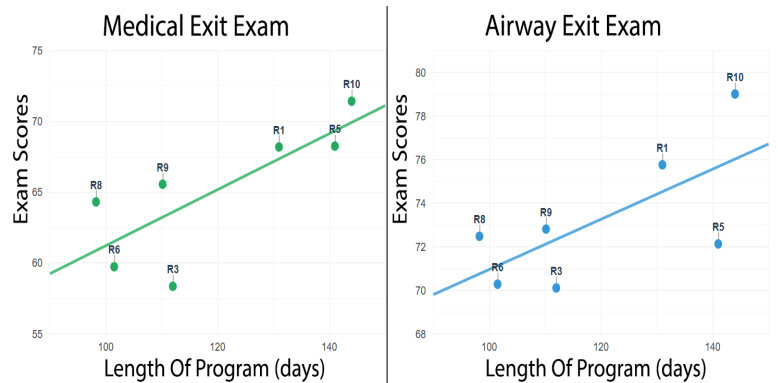
High-Level Insights

- **Longer Programs** → Better Performance on Technical Content
- **Program Length ≠** Difference on Foundational Content & Scenarios
- **Regional Variations** exist

Length of Programs vs Students Onboarded



Technical Exam Scores vs Length of Programs



Email Interactions with MedEdPrep & Associated Agencies

Region	Sent	Received	Response %	Region	Sent	Received	Response %	Region	Sent	Received	Response %
Region 1	45	6	13%	Region 5	55	8	15%	Region 9	99	19	19%
Region 2	80	21	26%	Region 6	58	0	0%	Region 10	93	40	43%
Region 3	392	94	24%	Region 7	41	13	32%	GEMSA	250	17	7%
Region 4	15	5	33%	Region 8	69	11	16%	GTC	529	125	24%



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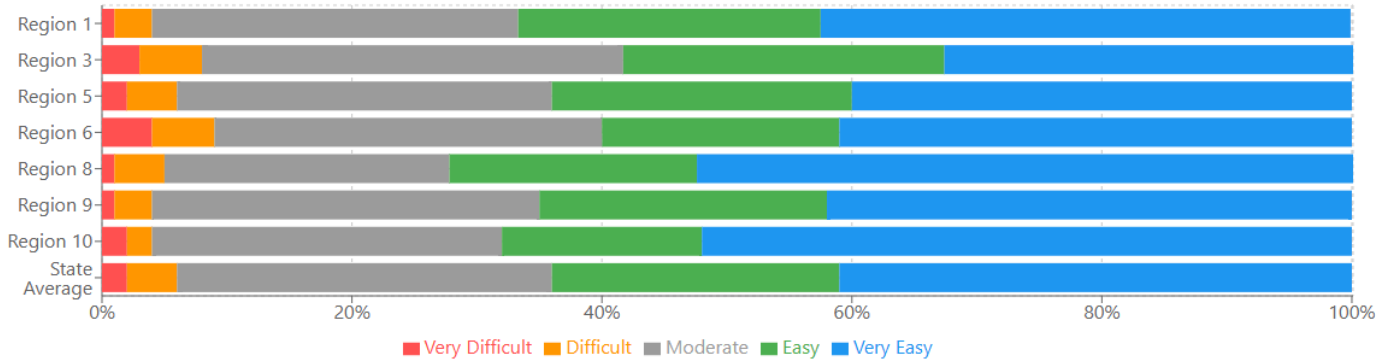


Detailed Insights

Concepts that are consistently Red, Orange, and Gray in the chart below:

- Bleeding & Trauma Management
- Chest & Abdominal Trauma
- Mass Casualty & Explosions
- Injuries & Illnesses of the Brain
- Chest Pain & Cardiac Events
- Adult & Pediatric Airway Management
- Neonatal Care & Pregnancy
- Drug Interactions & Dosing

Regional Variances of Concept Difficulty



Student Performance vs. Program Length

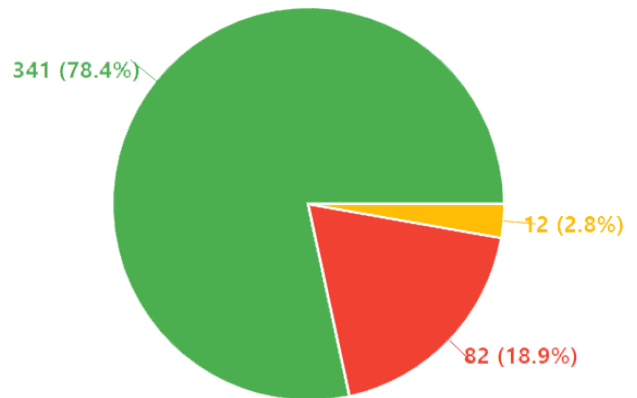
Of the 435 Questions:

- 78.4% Work Well Statewide
- 18.9% Perform poorly Statewide
- 2.8% High Regional Variation

Leveraging The Data For Better Outcomes

- Refine exams for clarity and curriculum alignment
- Compare performance data with NREMT pass rates
- Identify and address instructional gaps
- Intervene before certification testing
- Implement improved assessments for future cohorts

TOTAL: 435 EDUCATIONAL CONCEPTS



Moving Forward

As a Georgia-based organization, MedEdPrep shares the Commission’s commitment to advancing trauma care statewide through data collection and research. Together with the University of Illinois, we’re tackling EMS education and literacy challenges, ensuring communities will have both competent and confident providers. By turning statewide data into actionable insights, our goal is to allow the GTC to optimize resources, enhance training, and improve patient outcomes—keeping Georgia safer and healthier than we were yesterday.



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Question Analysis and Implications

Each exam question provides insights into student comprehension of specific learning objectives. Our framework includes 500+ points, all measured individually across Georgia's EMS education programs.

Volume of Sub Topic Exposure by Exam with Performance

Category	Correct	Attempted	Performance
Operations	40,505	46,047	87.96%
Final Exit	82,981	103,846	79.91%
Airway and Respiratory	34,292	47,095	72.81%
Special Populations	28,830	40,297	71.54%
Trauma	41,732	60,043	69.5%
Medical	56,479	88,137	64.08%
Grand Total	284,819	385,465	73.89%

Analysis Summary:

- **385,000+ data points** collected over 6 months
- Final Exit Exam focuses on scenario-based clinical decision-making
- **Critical finding:**
 - Students often lack understanding of WHY certain interventions are performed
 - Students excel at knowing WHAT actions to take in patient scenarios

Key Insights from Topic Analysis:

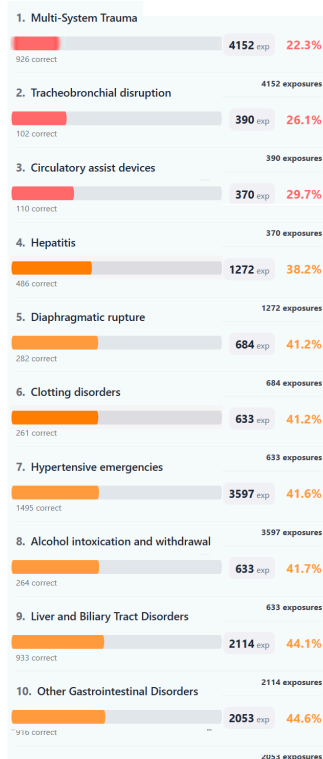
- The **Hi & Lo** performing topics reveal **consistency across all regions**
- Hi-performing areas (95-99% correct) include operational skills.
- Lo-performing areas (22-44% correct) involve complex pathophysiology.

This data suggests:

Students have mastered procedural skills but struggle with underlying science.

We may need to start putting a higher emphasis on the underlying concepts and pathophysiology, and it may lead to a higher success rate on the NREMT certification exams.

Bottom 10 Topics



Top 10 Topics

