EMD Coding vs Primary Impression

Jessica Hutchens, EMD-Q/EFD-Q/EPD-Q¹; Jeff Hutchens, EMT-P, EMD-I/EFD-I/ETC-I/EPD, BS²;

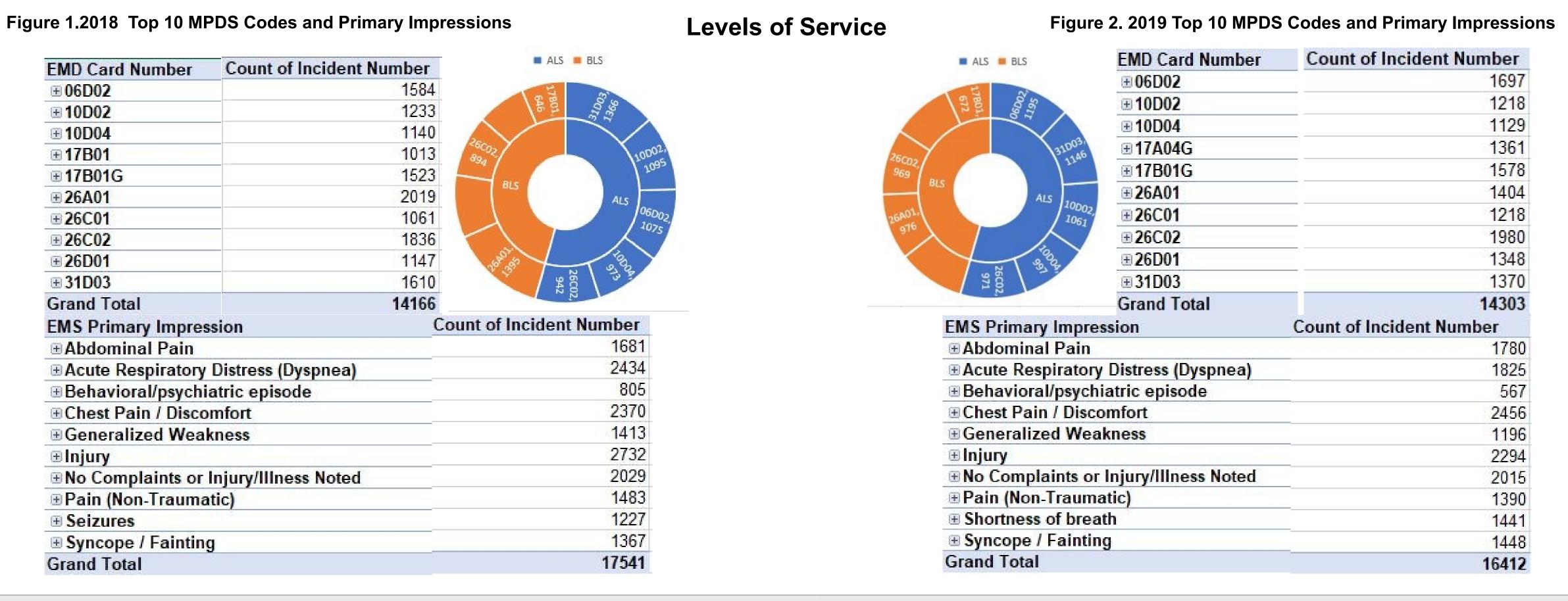
¹Guilford Metro 911, Greensboro, NC, ²Guilford County Emergency Services/Guilford Metro 911, Greensboro, NC

Introduction

In emergency dispatching, providers often arrive and find a situation completely different from the EMD Coding. Guilford County Emergency Services recently added BLS units to our fleet and wanted to match determinant codes to the correct responses to allow the ALS level providers to be available for higher priority calls. We looked at the on-scene primary impression recorded by the provider as well as the level of service.

Often, we were seeing Priority Level-Charlie and above calls that could be BLS appropriate and wanted to do an internal research to see exactly which calls we could set a default response to for the different level of provider service.

Top 10 MPDS Codes and Primary Impression



Discussion

The findings in this study address the following questions

- Can full determinant code information can allow appropriate resources to be sent to the right calls?
- Why do some higher-level calls not need an ALS level response, but rather just a rapid response?
- How does a tiered response fall into this and what benefit does a tiered response have on some of these types of calls?
- What constitutes an ALS level call?
- Is it important to make sure calls are coded properly and the correct resources sent to these events?
- Is level of service a good predictor or do we need to dig down deeper into each primary impression to determine the correct response needed on these?
- Would future studies looking at interventions vs. primary impressions be beneficial?

Objectives

The purpose of this internal research was to determine if the EMD Coding matched the primary impression the provider recorded when they arrived on scene and the level of service (LOS) provided.

Materials and Methods

The retrospective, descriptive study analyzed dispatch and emergency medical service (EMS) extracted data from our communications centers and our patient care reporting software:

- Guilford Metro 911, (GM911) North Carolina.
- Guilford County Emergency Services (GCES), North Carolina

We compiled and analyzed data from ESO Patient Care Reporting Software, IAED Data Center (Fusion), First Watch's Academy Analytics, GM911 QA Division and Priority Dispatch ProQA Reports.

■ 06D02	■ Advanced Life Support	Acute Respiratory Distress (Dyspnea)	459
	rasanoca ene oupport	Behavioral/psychiatric episode	56
		Chest Pain / Discomfort	49
		Generalized Weakness	61
		Shortness of breath	76
	Advanced Life Support Total	A contract the contract the contract to the co	701
	Basic Life Support	Acute Respiratory Distress (Dyspnea) Anxiety reaction/Emotional upset	64 41
	1	Behavioral/psychiatric episode	99
		No Complaints or Injury/Illness Noted	46
		Pain (Non-Traumatic)	35
	Basic Life Support Total		285
06D02 Total			986
■ 10D02	■ Advanced Life Support	Abdominal Pain	62
	_	Acute Respiratory Distress (Dyspnea)	94
		Behavioral/psychiatric episode Chest Pain / Discomfort	41 533
		Chest Pain, Other (Non-Cardiac)	103
	Advanced Life Support Total	enses i ampestici (raon earaido)	833
	■ Basic Life Support	Abdominal Pain	20
		Back Pain	11
		Behavioral/psychiatric episode	26
		Chest Pain, Other (Non-Cardiac)	18
		Pain (Non-Traumatic)	15
IODO2 Total	Basic Life Support Total	× × × ×	90 923
10D02 1 Otal ■ 10D04	■ Advanced Life Support	Abdominal Pain	923 55
W IODOT	- Advanced Life Support	Behavioral/psychiatric episode	41
		Cardiac arrhythmia/dysrhythmia	29
		Chest Pain / Discomfort	519
		Chest Pain, Other (Non-Cardiac)	109
	Advanced Life Support Total		753
	■ Basic Life Support	Abdominal Pain	28
		Anxiety reaction/Emotional upset	10
		Behavioral/psychiatric episode Common Cold	25 10
		Pain (Non-Traumatic)	23
	Basic Life Support Total	i am (ruon- rradinado)	96
IODO4 Total			849
⊕ 17A02G	■ Advanced Life Support	Injury	176
		Injury of Hip	35
		Injury of Lower Leg	19
		Injury of Pelvis	28
	Administration Community Total	No Complaints or Injury/Illness Noted	29
	Advanced Life Support Total Basic Life Support	Generalized Weakness	287 23
	- casic circ support	Injury	203
		Injury of Hip	18
		No Complaints or Injury/Illness Noted	219
		Pain (Non-Traumatic)	26
	Basic Life Support Total	2.7 30.	489
17A02G Total	(a) B (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Milester di Milester (Maria	776
■ 17A04G	☐ Advanced Life Support	Altered Mental Status	5
		Generalized Weakness Injury	.43 16
		No Complaints or Injury/Illness Noted	10
		Syncope / Fainting	6
	Advanced Life Support Total		181
	Basic Life Support	Back Pain	6
		Generalized Weakness	41
		Injury	28
		No Complaints or Injury/Illness Noted	589
		Pain (Non-Traumatic)	9 673

⊕ 06D02	Advanced Life Support	Abdominal Pain	46
		Acute Respiratory Distress (Dyspnea)	340
		Chest Pain / Discomfort	60
		Generalized Weakness	45
		Shortness of breath	311
	Advanced Life Support Total		802
	■ Basic Life Support	Abdominal Pain	40
		Acute Respiratory Distress (Dyspnea)	40
		Anxiety reaction/Emotional upset	70
		Behavioral/psychiatric episode	64
	Maria de la compania del compania del compania de la compania del compania de la compania de la compania del compania de la compania del compania de la compania del compania de la compania del compania del compania del compania de la compania de la compania de	Shortness of breath	53
	Basic Life Support Total	1-00-000-000-000-000-000-00-00-00-00-00-	267
6D02 Total			1069
■ 10D02	■ Advanced Life Support	Abdominal Pain	45
		Acute Respiratory Distress (Dyspnea)	66
		Chest Pain / Discomfort	547
		Chest Pain, Other (Non-Cardiac)	102
		Shortness of breath	40
	Advanced Life Support Total		800
	Basic Life Support	Abdominal Pain	17
	- easie ent cappoit	Anxiety reaction/Emotional upset	19
	+	Behavioral/psychiatric episode	19
		Chest Pain, Other (Non-Cardiac)	16
	+	Pain (Non-Traumatic)	18
	Dacia Life Cunnert Total	r am (Note Hadinatic)	89
	Basic Life Support Total		
0D02 Total	m Advanced Life Process	acquais, or most	889
∃ 10D04	■ Advanced Life Support	Abdominal Pain	53
		Behavioral/psychiatric episode	33
		Chest Pain / Discomfort	530
		Chest Pain, Other (Non-Cardiac)	104
	1 444 444 44	Pain (Non-Traumatic)	40
	Advanced Life Support Total		760
	■ Basic Life Support	Abdominal Pain	21
		Anxiety reaction/Emotional upset	15
		Behavioral/psychiatric episode	17
		Chest Pain, Other (Non-Cardiac)	11
	Maria di Cara de Cara	Pain (Non-Traumatic)	15
	Basic Life Support Total		79
0D04 Total	The state of the s		839
■ 17A04G	■ Advanced Life Support	Dizziness	6
		Generalized Weakness	43
		Injury	12
		No Complaints or Injury/Illness Noted	66
		Syncope / Fainting	F
	Advanced Life Support Total	egreepe training.	132
	Basic Life Support	Back Pain	132
	a nasic rite authori		3
		Generalized Weakness	34
		Injury	48
		No Complaints or Injury/Illness Noted	728
######################################		Pain (Non-Traumatic)	14
	Basic Life Support Total		833
7A04G Total			965
■ 17B01G	■ Advanced Life Support	Injury	194
		Injury of Head	111
		Injury of Hip	28
		No Complaints or Injury/Illness Noted	25
	Tago was a son as	Syncope / Fainting	29
	Advanced Life Support Total		387
	■ Basic Life Support	Back Pain	44
		Injury	344
		Injury of Head	213
	-	Laceration/Abrasion/Hematoma (minor surface trauma)	41
	-		
		No Complaints or Injury/Illness Noted	181
	Basic Life Support Total		823

Figure 4. 2019 MPDS Code vs LOS vs Primary Impression – Top 5

Conclusion

The study findings showed that not only were we able to pin point certain determinant codes for an ALS level or BLS level response but, also were able to identify the Primary Impressions associated with each final dispatch coding.

In the most frequently used MPDS codes, ALS care is significantly higher in the DELTA determinant level than in both the BRAVO and ALPHA determinant levels. Some of the ALS care in the ALPHA levels may be due to pain relief rather than life-threatening conditions.

This study also found other issues that needed to be addressed, such as incorrect coding of some calls and the need for more quality improvement and education for the telecommunicators on Chief Complaint selection.

Acknowledgements

- Guilford County Emergency Services
- Guilford Metro 911

Contact Information

Jessica Hutchens (Jessica.hutchens@Greensboro-nc.gov)

Jeff Hutchens (jhutche@guilford-es.com)



