# A Ten Year Overview of Medical & Surgical Cases

**Data Insight** 

2023





#### Introduction

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This publication contains an analysis of aggregated data from clinically coded medical and surgical cases opened between 2012-2021.

#### Keep in mind...

The purpose of this report is to assist in understanding better the factors that may have contributed to **cases brought against insured medical and surgical practitioners, hospitals and facilities** (dental and senior care cases are excluded).

Our data system, and analysis, rolls all claims/suits related to an individual patient event into one case for coding purposes. Therefore, a case may be made up of one or more individual claims/suits and multiple defendant types such as hospital, physician, and other healthcare professionals.

Cases that involve attorney representations at depositions, State Board actions, and general liability cases are not included.

This analysis is designed to provide insured doctors, healthcare professionals, hospitals, health systems, and associated risk management staff with detailed case data to assist them in purposefully focusing their risk management and patient safety efforts.

#### **Key Points - Clinically Coded Data**

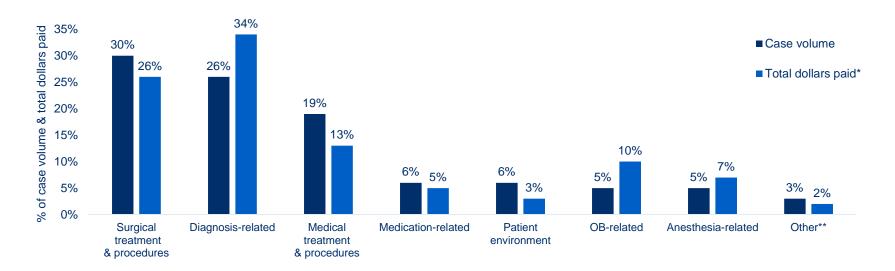
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- Distribution of the five most common allegation categories across rolling three-year timeframes is relatively consistent.
  - Surgical allegations are most common, followed closely by those which are diagnosis-related. Medical, patient environment and medication-related allegations round out the top five allegation categories.
  - Medical treatment and patient environment cases do appear to be increasing as a percentage of the overall case volume. Medical
    treatment is inclusive of broad-scope non-surgical, non-medication and non-OB-related cases. Patient environment primarily reflects
    patient falls and other safety-related events.
- Although diagnosis-related cases account for one-third of total dollars paid, OB and anesthesia-related cases are, on average, the most costly to defend. Diagnosis-related allegations encompass wrong diagnoses, failures/delays, and misdiagnoses. There are key opportunities to reduce errors along the diagnostic process of care, especially during the initial patient assessment phase.
- Although the percentage of high clinical severity cases opened each year is slightly declining, the average cost to resolve these is rapidly increasing.
- The primary responsible service in each case is the specialty that is deemed to be most responsible for the resulting patient
  outcome. In keeping with the volume of surgical cases, surgical specialties are most commonly noted, but followed closely by a variety of
  medical specialties and nursing staff.
- "Roles" are also identified; they reflect the specific position within the specialty service team that was involved at the time of the event. As would be expected, attending/consulting roles are by far the most commonly noted.
- Contributing factors are multi-layered issues or failures in the process of care that appear to have contributed to the patient's outcome, and/or to the initiation of the case, or had a significant impact on case resolution. The distribution of the five most common factors across rolling three-year timeframes is relatively consistent.
  - Clinical judgment factors are, not surprisingly, most often identified, followed by communication, technical skill, behavior-related issues
    and administrative factors.

#### **Major Allegation Categories & Financial Severity**

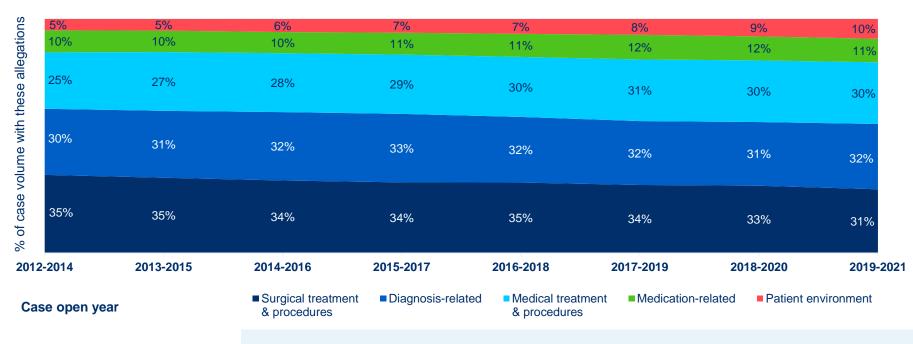
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Each case reflects one major allegation category. Categories are designed to enable the grouping and analysis of similar cases and to drive focused risk mitigation efforts. The coding taxonomy includes detailed allegation sub-categories; insight into these is noted later in this report. Surgical and diagnosis-related cases are most common, and although diagnosis-related cases account for one-third of total dollars paid, OB and anesthesia-related cases are, on average, the most costly to defend.



#### **Distribution of Top Five Major Allegation Categories Over Time**

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Overall, the distribution of the five most common allegation categories across rolling three-year timeframes is relatively consistent. Medical treatment and patient environment (primarily falls and other safety-related events) cases do appear to be increasing as a percentage of the overall case volume.

#### **Clinical Severity\***

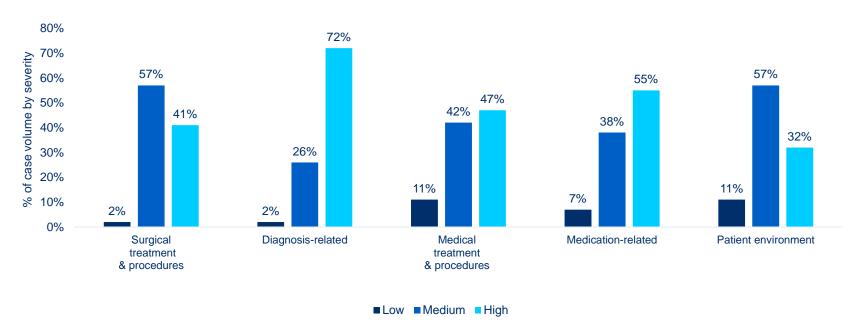
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Clinical Severity Categories	Sub-categories	% of case volume		
LOW	Emotional Injury Only	6%	Typically,	
LOVV	Temporary Insignificant Injury	0 70	the higher the clinical	
	Temporary Minor Injury			
MEDIUM	Temporary Major Injury	41%	severity, the higher the	
	Permanent Minor Injury		indemnity payments are,	
	Significant Permanent Injury		and the more frequently	
HIGH	Major Permanent Injury	<b>520</b> /	53%	payment occurs.
	Grave Injury	33%	paymont occarci	
	Death			

#### **Clinical Severity\*: Focus on Top Five Major Allegation Categories**

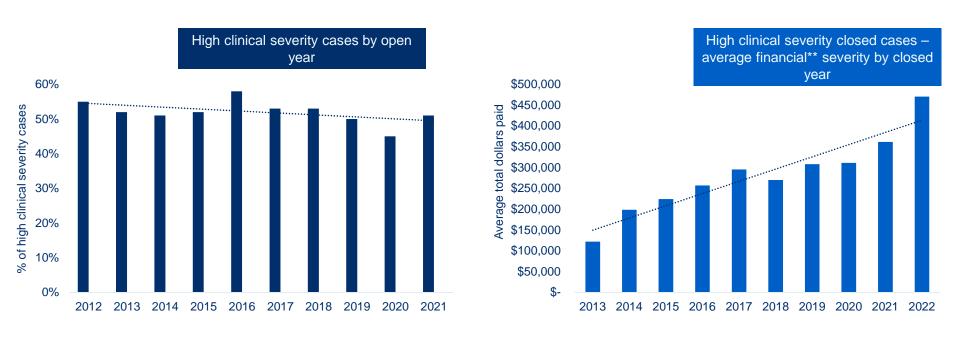
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The percentage of diagnosis-related cases which reflect a high clinical severity patient outcome far surpasses that of other allegations. The only exception is OB-related cases (74% of those are high severity).



#### Clinical\* & Financial Severity

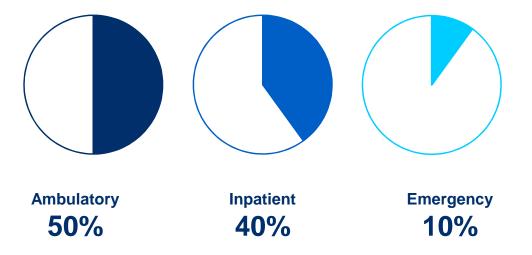
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Although across the years the percentage of high clinical severity cases in this data set **opened each year is slightly declining**, the **average cost to resolve** these cases is **rapidly increasing**.

#### **Claimant Type & Location**

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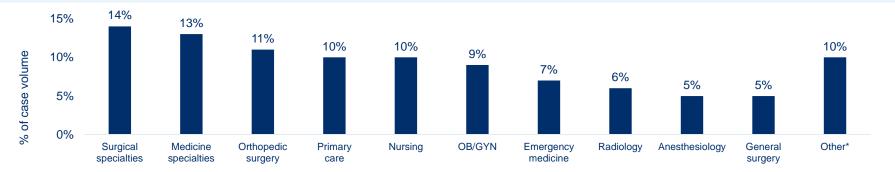
Top Locations	% of case volume
Office/clinic	26%
Patient room/ICU	17%
Inpatient surgery	15%
Ambulatory surgery	11%
Emergency department	10%

MedPro Group + MLMIC cases opened 2012-2021 (N=22,625)

#### **Primary Responsible Services**

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The primary responsible service in each case is the specialty that is deemed to be most responsible for the resulting patient outcome.



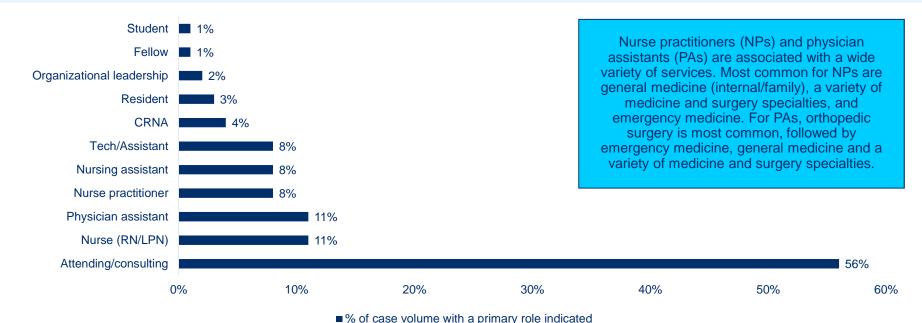
Plastics (16%)   Gastroenterology (14%)	Surgical specialties**	Ophthalmology (23%)	Medical specialties**	Cardiology (14%)	
Podiatry (11%) Vascular (7%) Pain medicine (11%) Neurology (7%)	- -	Plastics (16%)		Gastroenterology (14%)	
Podiatry (11%) Vascular (7%) Pain medicine (11%) Neurology (7%)	edica	Urology (14%)		Dermatology (12%)	
Podiatry (11%)  Vascular (7%)  Other* (17%)  Pain medicine (11%)  Neurology (7%)  Other* (30%)	Surgical & me specialty det	Otolaryngology (12%)		Medical hospitalist (12%)	
D O O O O O O O O O O O O O O O O O O O		Podiatry (11%)		Pain medicine (11%)	
Other* (17%) Other* (17%)		Vascular (7%)		Neurology (7%)	
Sales (1.75)		Other* (17%)		Other* (30%)	

MedPro Group + MLMIC cases opened 2012-2021 (N=22,625); "Other includes services for which no significant case volume exists; "As a percentage of the case volumes for surgical specialties and medical specialties categories

#### **Primary Responsible Services: Focus on Primary Roles\***

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The primary responsible service in each case is the specialty that is deemed to be most responsible for the resulting patient outcome. "Roles" reflect the specific position within the specialty service team that was involved at the time of the event. There may be multiple primary roles within the same service team (i.e., a physician assistant and an attending/consult – both practicing medicine under the emergency medicine responsible service).



## **Contributing Factors**

"Contributing factors reflect both provider and patient issues. They denote breakdowns in technical skill, clinical judgment, communication, behavior, systems, environment, equipment/tools, and teamwork. The majority are relevant across clinical specialties, settings, and disciplines; thus, they identify opportunities for broad remediation."

# Despite best intentions, processes designed for safe patient outcomes can, and do, fail.

**Contributing factors** are multi-layered issues or failures in the process of care that appear to have contributed to the patient's outcome, and/or to the initiation of the case, or had a significant impact on case resolution.

Multiple factors are identified in each case because generally, there is not just one issue that leads to these cases, but rather a combination of issues.



Administrative



**Behavior-related** 



Clinical environment



Clinical judgment



Clinical systems



Communication



**Documentation** 



Supervision



Technical skill

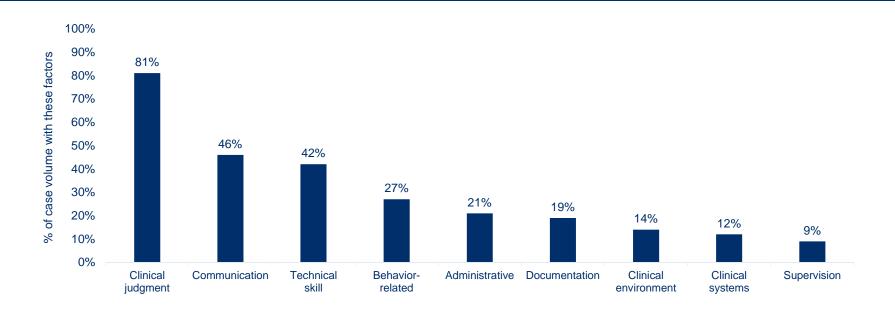
#### **Contributing Factor Category Definitions**

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Administrative	Factors related to medical records (other than documentation), reporting, staffing, ethics, policy/protocols, regulatory
Behavior-related	Factors related to patient non-adherence to treatment or behavior that offsets care; also provider behavior including breach of confidentiality or sexual misconduct
Clinical environment	Factors related to workflow, physical conditions and "off-hours" conditions (weekends/holidays/nights)
Clinical judgment	Factors related to patient assessment, selection and management of therapy, patient monitoring, failure/delay in obtaining a consult, failure to ensure patient safety (falls, burns, etc), choice of practice setting, failure to question/follow an order, practice beyond scope
Clinical systems	Factors related to coordination of care, failure/delay in ordering test, reporting findings, follow-up systems, patient identification, specimen handling, nosocomial infections
Communication	Factors related to communication among providers, between patient/family and providers, via electronic communication (texting, email, etc), and telehealth/tele-radiology
Documentation	Factors related to mechanics, insufficiency, content
Supervision	Factors related to supervision of nursing, house staff, advanced practice clinicians
Technical skill	Factors related to improper use of equipment, medication errors, retained foreign bodies, technical performance of procedures

#### **Most Common Contributing Factor Categories**

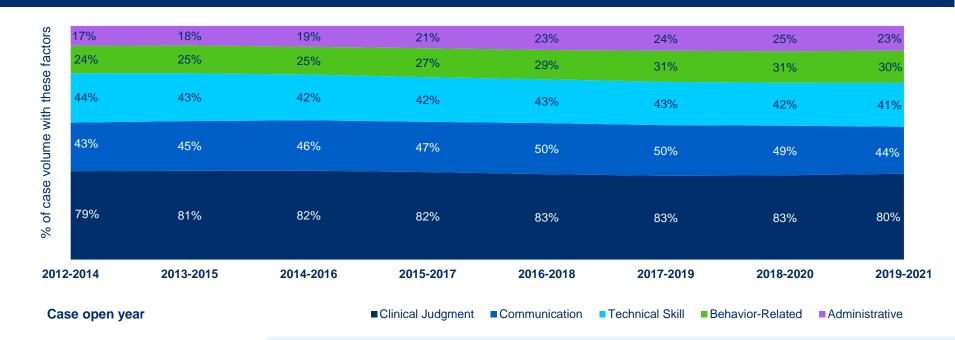
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Not unexpectedly, more than **three-fourths of all cases note clinical judgment factors.** These cases are reflective of provider clinical decision-making (patient assessments, obtaining consults, etc.). Also of note, an increasing (but still few) number of cases are **beginning to reflect Covid-related influences**\*, most often treatment and/or access to care which was impacted/delayed by pandemic conditions.

#### **Distribution of Top Five Factor Categories Over Time**

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While the distribution of these top (most common) factors across rolling three-year timeframes is relatively consistent, take note of even slight increases over time as indicators of emerging risk issues.

#### **Contributing Factors as Primary Drivers: Focus on Clinical Judgment**

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Contributing factors are multi-layered issues or failures in the process of care that appear to have contributed to the patient's outcome, initiation of the case, or had a significant impact on case resolution. Factors can now be identified as the primary driver (most impactful influence) and are linked to responsible services in each case.\* This visual reflects those cases in which a CLINICAL JUDGMENT factor is the primary driver.

Most common clinical judgment as primary factor details	IIIAAMANT CASAS		Top three most common responsible services linked to each factor detail (1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> )		
Failure to appreciate/reconcile relevant sign/symptom/test result	32%	Emergency medicine	Orthopedic surgery & Nursing	Obstetrics	
Selection/management most appropriate surgical/invasive procedure	25%	Orthopedic surgery	General surgery	Gynecology	
Failure/delay in ordering diagnostic test	16%	Emergency medicine	Primary care	Orthopedic surgery	
Failure to establish differential diagnosis	13%	Emergency medicine	Primary care	Orthopedic surgery	
Misinterpretation of diagnostic studies	12%	Radiology	Pathology	Obstetrics, Emergency medicine & Orthopedic surgery	

#### **Contributing Factors as Primary Drivers: Focus on Technical Skill**

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Most common technical skill as primary factor details	% of technical skill cases with these details	Top three most common responsible services linked to each factor detail (1st, 2nd, 3rd)				
Recognition/management of known complications	56%	Orthopedic surgery	Anesthesiology	General surgery		
Poor technique	24%	Orthopedic surgery	General surgery	Anesthesiology		
Improperly utilized equipment	6%	Orthopedic surgery	Nursing	Anesthesiology		
Misidentification of anatomical structure	5%	General surgery	Orthopedic	Gynecology & Neurosurgery		

#### **Contributing Factors as Primary Drivers: Focus on Communication**

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Most common communication as primary factor details	Casas With thasa		mmon responsible services linked to each factor detail (1st, 2nd, 3rd)	
Suboptimal communication among providers  – about patient condition	30%	Nursing	Anesthesiology	Radiology
Suboptimal communication with patients/families – about expectations	13%	Orthopedic surgery	Ophthalmology	Plastic surgery & Anesthesiology
Failure to read medical record	10%	Primary care	Emergency medicine	General surgery
Inadequate informed consent process for surgical/invasive procedures	8%	Orthopedic surgery	Gynecology	Ophthalmology
Suboptimal communication among providers  – failure to escalate concerns	5%	Nursing	Anesthesiology	Emergency, Primary care & obstetrics
Inadequate patient education – about follow- up instructions	5%	Primary care	Emergency medicine & Gynecology	Dermatology

#### **Contributing Factors as Primary Drivers: Focus on Behavior-Related**

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Most common behavior-related as primary factor details	% of behavior- related cases with these details	Notes
Patient non-adherence to treatment regimen	20%	These patient-related behavior factors reflect issues which, for the
Patient dissatisfaction – seeking other providers	13%	most part, are beyond the control of a healthcare provider. However, consider that those involving patient non-adherence to treatment
Patient non-adherence to scheduled follow-up call/appointment	12%	might be a result of suboptimal communication with and education of patients/families as to the importance of continuing care.

#### **Contributing Factors as Primary Drivers: Focus on Administrative**

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Most common administrative as primary factor details  % of adminicates with detail		Top three most common responsible services linked to each factor detail (1st, 2nd, 3rd)		
Policy/protocol not followed	47%	Nursing	Emergency medicine, Radiology & Anesthesiology	Obstetrics
Staff training/education	14%	Nursing	Radiology	Primary care
Need for policy/protocol	13%	Leadership/ Administration	Nursing	Radiology
Credentialing issues	5%	Leadership/ Administration	Emergency medicine	Primary care

#### **Contributing Factors as Primary Drivers: Focus on Other Common Factors**

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Contributing factors are multi-layered issues or failures in the process of care that appear to have contributed to the patient's outcome, initiation of the case, or had a significant impact on case resolution. Factors can now be identified as the primary driver (most impactful influence) and are linked to responsible services in each case.\* This visual reflects those cases in which other factors are primary drivers.

Other factors	Most common other primary factor details	% of each "other factor" cases with these details	Top three most common responsible services linked each factor detail (1st, 2nd, 3rd)		
Documentation	Insufficient/lack of documentation – about clinical findings	70%	Nursing	Gynecology	Primary care
Clinical environment	Events occurring during nights/weekends/holidays	85%	Note: although these factors are beyond the control of individual healthcare providers, risk mitigation efforts show focus on recognizing that ease of access to resources/consultants, etc. might be different than during weekday hours.		pation efforts should of access to
Clinical avatama	Lack of/failure in patient follow-up processes related to diagnostic testing	30%	Primary care	Gynecology	Urology surgery
Clinical systems	Failure/delay in reporting diagnostic findings	29%	Radiology	Emergency medicine	Primary care
Supervision	Inadequate supervision of advanced practice clinicians	33%	Anesthesiology	Emergency medicine	Orthopedic surgery

#### **Contributing Factors: Focus on Primary Drivers of Financial Severity**

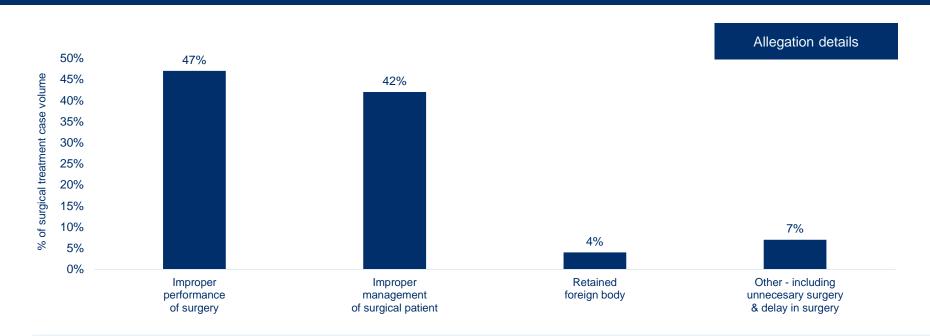
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Administrative	Policy/protocol not followed		
Clinical	Management of labor & delivery		
judgment	Misinterpretation of diagnostic studies		
	Choice of practice setting (inpatient vs ambulatory)		
	Inadequate patient assessment (history & physical)		
	Narrow diagnostic focus		
	Failure/delay in obtaining consult/referral		
	Failure/delay in ordering diagnostic test		
	Failure to appreciate/reconcile relevant sign/symptom/test result		
Communication	Failure to read medical record		
	Suboptimal communication among providers – about patient condition		
Technical skill	Misidentification of anatomical structure		
	Improperly utilized equipment		
	Poor technique		

More than half of all cases with any of these primary driver contributing factors closed with indemnity paid.\*

#### **Focus on Surgical Treatment Allegations**

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Cases involving the management of surgical patients, including pre-, intra-, and post-operatively, are often related to the surgical team's response to developing complications. While complications of procedures may have been the result of procedural error, the failure to timely recognize and/or monitor/manage the issue prevents the opportunity for early mitigation of the risk of serious adverse outcome.

MedPro Group + MLMIC cases opened 2012-2021 (N=22,625)

#### **Focus on Diagnosis-Related Allegations**

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Diagnosis-related allegations encompass wrong diagnoses, failures/delays, and misdiagnoses. Below are the portions of each primary responsible service's cases which are diagnosis-related. Highlighted in red are those services for which diagnostic allegations account for at least one-third of case volume.

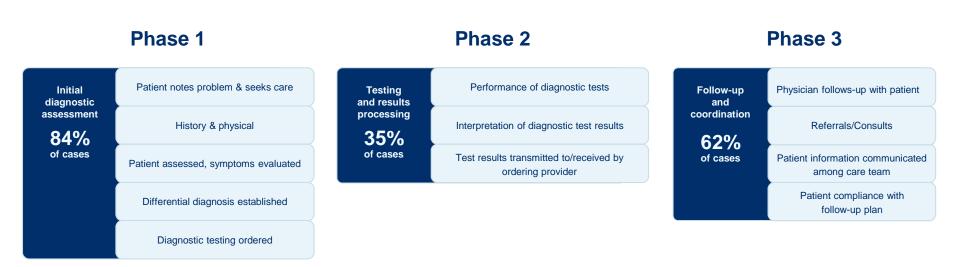


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#### **Focus on Diagnosis-Related Allegations**

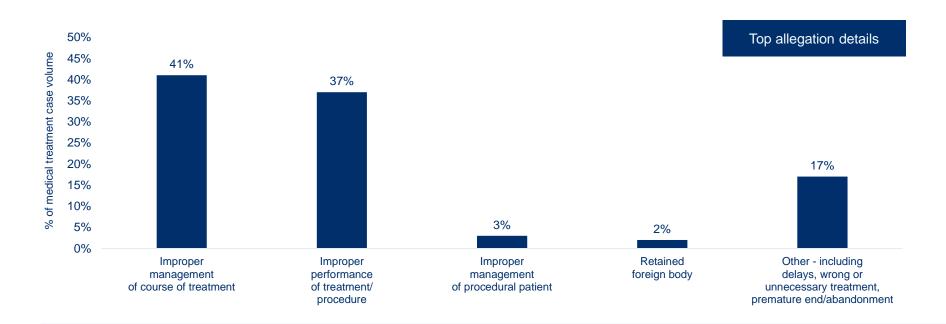
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Diagnosis-related allegations encompass wrong diagnoses, failures/delays, and misdiagnoses. Note the key opportunities to reduce diagnostic errors along the diagnostic process of care\* below.



#### Focus on Medical Treatment Allegations

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Procedural performance cases can be impacted by delayed recognition of complications, while management cases most often reflect issues with selection of the most appropriate course of treatment for the patient, and appreciating and reconciling symptoms and test results.

MedPro Group + MLMIC cases opened 2012-2021 (N=22,625)

#### **Focus on Other Common Allegations**

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As a reminder, surgical and diagnosis-related cases are most common, and although diagnosis-related cases account for one-third of total dollars paid, **OB and anesthesia-related cases are, on average, the most costly to defend**.

Other allegations	Most common other allegation details	% of each "other allegation" category with these details
Medication-related	Management of medication regimens	59%
Medication-related	Ordering, administration, dispensing errors	24%
	Patient falls	71%
Patient environment	Other safety events, including burns, infections, positioning-related injuries	24%
	Delay in treatment of fetal distress	27%
OB-related	Management of pregnancy	15%
	Improper performance of vaginal delivery	15%
	Improper management of anesthesia patient	32%
Anesthesia-related	Improper performance of anesthesia procedure	27%
	Tooth/teeth damage related to intubation/extubation	21%

MedPro Group + MLMIC cases opened 2012-2021 (N=22,625)

#### MedPro Advantage: Online Resources

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Tools & resources

**Educational opportunities** 

Consulting information

Videos

eRisk Hub Cybersecurity Resource

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#### Education



 Materials and resources to educate followers about prevalent and emerging healthcare risks



#### Awareness

 Information about current trends related to patient safety and risk management

#### **Promotion**

Promotion of new resources and educational opportunities

#### Why MLMIC: Resources For Our Insureds

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### Find us online at <a href="https://www.mlmic.com/why-mlmic">https://www.mlmic.com/why-mlmic</a>

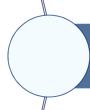
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**Risk Protect**: a comprehensive initiative designed to actively address and aggressively manage specific areas of risk through services such as MLMIC's unique on-site risk management surveys/audits and tailored and targeted risk management educational programs



**24/7 Hotline**: offers immediate access to experienced, knowledgeable professionals who can provide advice and guidance on health-law concerns and risk management issues, valuable resources, review of legal documents and forms pertaining to risk management issues, and more



#### **MedPro Group & MLMIC Data**

**MedPro and MLMIC are partnered with Candello**, a national medical malpractice data collaborative and division of CRICO, the medical malpractice insurer for the Harvard-affiliated medical institutions.

**Derived from the essence of the word candela**, a unit of luminous intensity that emits a clear direction, Candello's best-in-class taxonomy, data, and tools provide unique insights into the clinical and financial risks that lead to harm and loss.



**Leveraging our extensive claims data**, we help our insureds stay aware of risk trends by specialty and across a variety of practice settings. Data analyses examine allegations and contributing factors, including human factors and healthcare system flaws that result in patient harm. Insight gained from claims data analyses also allows us to develop targeted programs and tools to help our insureds minimize risk.



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