

Medical Office and Clinic-Based Cases

Data Insight
2025



Report Scope

- **This report details stories and data from MedPro and MLMIC closed cases which arose in medical offices/clinics.** Even though well-meaning providers intend to provide the highest quality of care, failures in the process of care do occur, and can result in a long-lasting impact on both patients and providers.
- We trust you'll read our data and associated case stories with an eye on both clinical risk management and on how these events might have been prevented, for the benefit of patients and providers.

Throughout this report, we'll answer the following questions, among others, and support the answers with data:

Which case types are most common?

Who is responsible for the patient injuries, and how serious are the injuries?

How do failed processes of care, known as contributing factors, impact patient outcomes?

Key Points

Over 6,000 clinically coded closed cases were referenced for this report.

As context, medical office/clinic-based cases are most common across the entirety of the MedPro and MLMIC closed case data set, representing 24% of all closed cases.

Diagnostic and broad-spectrum medical treatment case types are most common.

Across the diagnostic cases, malignancy and circulatory system diagnoses are most often identified. Management of courses of medical treatment and procedural performance-related cases together account for more than three-fourths of medical cases.

By responsible service, primary care and orthopedics account for the largest volume of cases.

Primary care services (family and internal medicine), followed by dermatology, are most common in the medical cases, with orthopedics and ophthalmology services in the surgical cases. Physician assistants, nurse practitioners and technicians/assistants are often identified as involved provider roles.

A variety of contributing factors are identified.

More than three-fourths of all cases reflect clinical judgment issues. Half of all cases also reflect communication issues. Cases reflecting sub-optimal communication (among providers and between providers and patients/families), insufficient documentation, and breaks in the process designed for diagnostic test tracking and follow-up (clinical systems) are, on average, most expensive to defend.



Clinical Risk Analysis

The following section details clinical risk insights from closed cases arising in a medical office or clinic setting, across case open years 2014-2023.

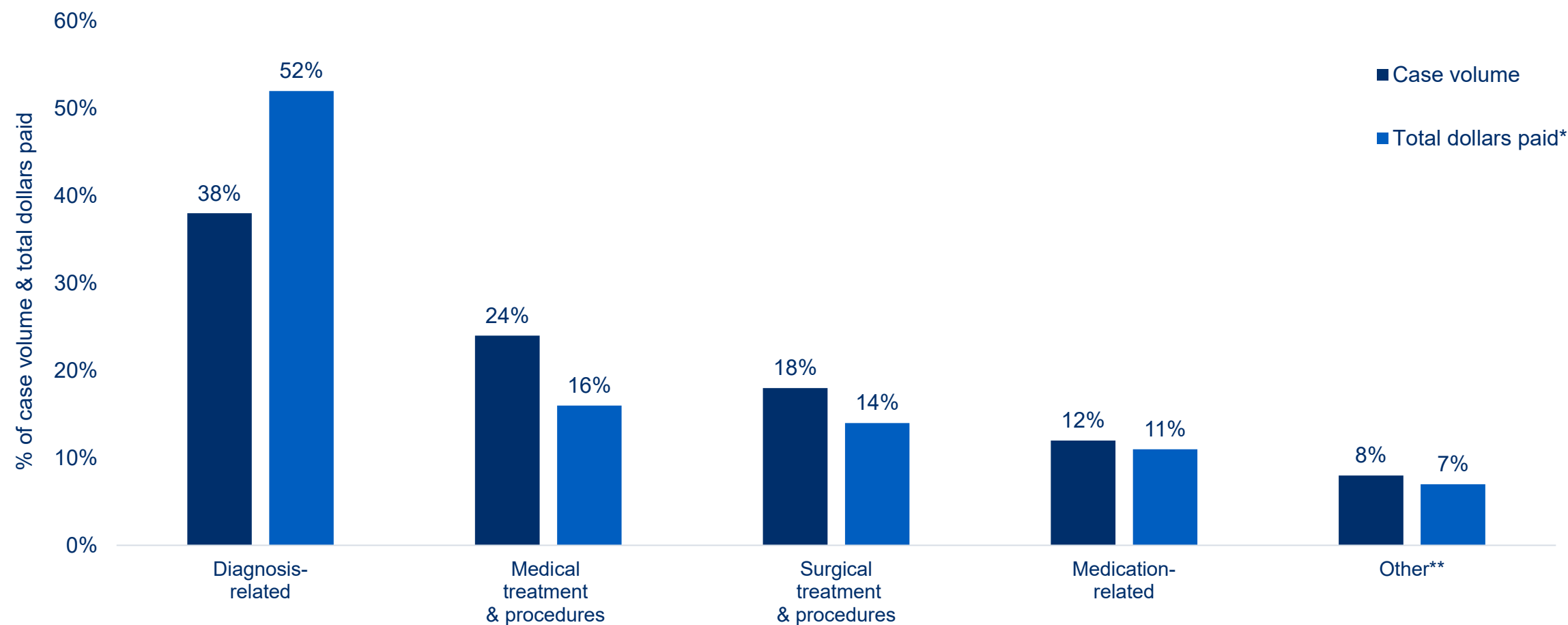
A key point of the clinical coding process involves the categorization of cases into types. Case types characterize the underlying processes of care which most directly impacted the patient's outcome, and/or initiation of a claim/suit.

There is always one primary case type*, and often several secondary types.

*See case type definitions at the end of this report.

Primary Case Type Categories & Financial Severity

Diagnosis-related cases are most common and account for half of the financial severity. Additional insights into the most common case types are provided later in this report.

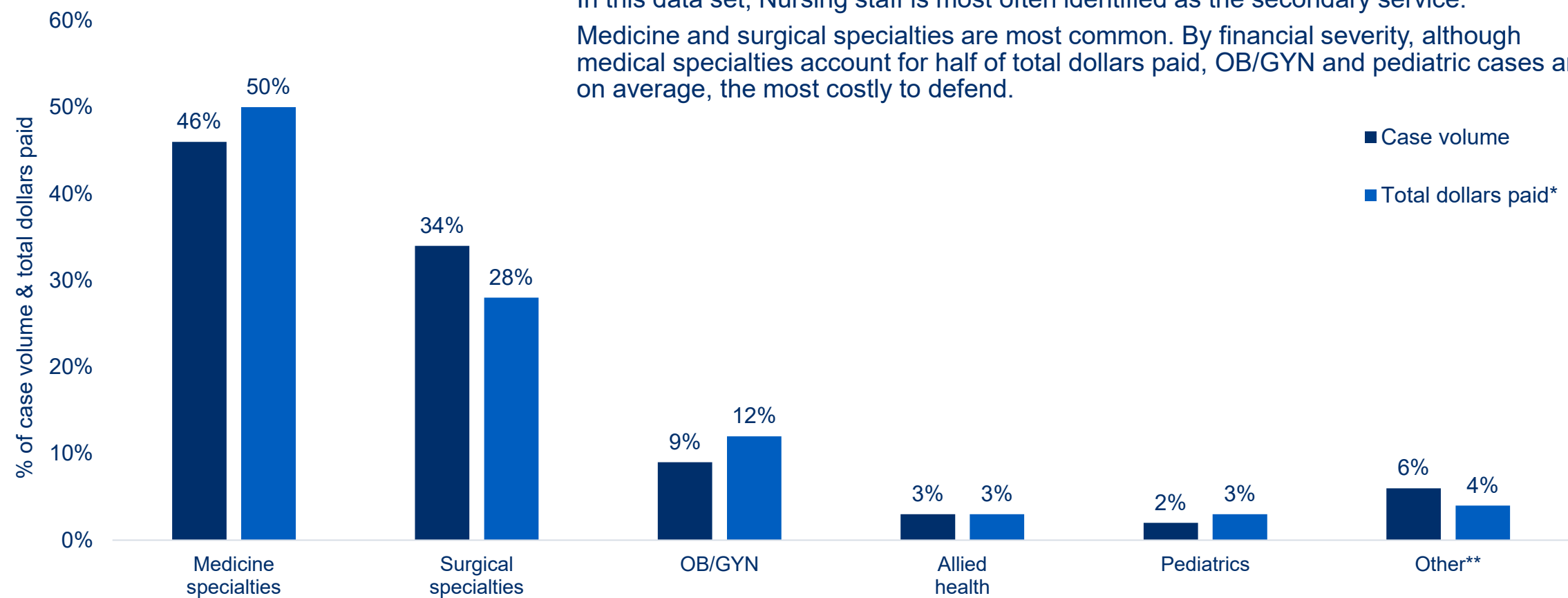


Primary Responsible Service Categories & Financial Severity

Responsible services indicate the clinical service of the provider(s) most directly responsible for the patient's care at the time of the event. There is always one primary service, and often several secondary services.

In this data set, Nursing staff is most often identified as the secondary service.

Medicine and surgical specialties are most common. By financial severity, although medical specialties account for half of total dollars paid, OB/GYN and pediatric cases are, on average, the most costly to defend.



Primary Responsible Service Details

Medicine specialties

46% of
overall case
volume

Most common
(% of medicine specialty
case volume)



Family medicine	29%
Internal medicine	22%
Dermatology	14%
Pain medicine	8%
Cardiology	5%
Gastroenterology	5%

Surgical specialties

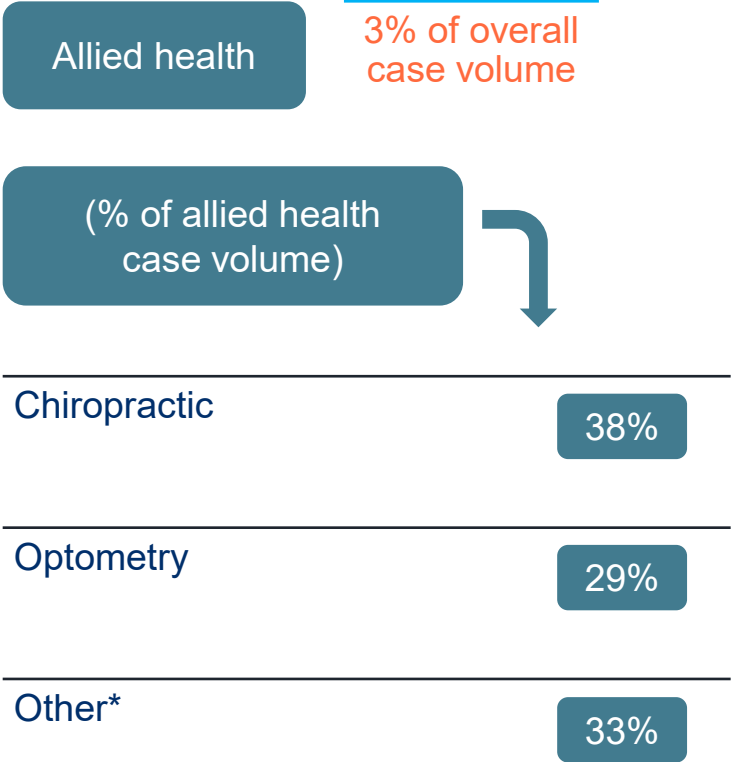
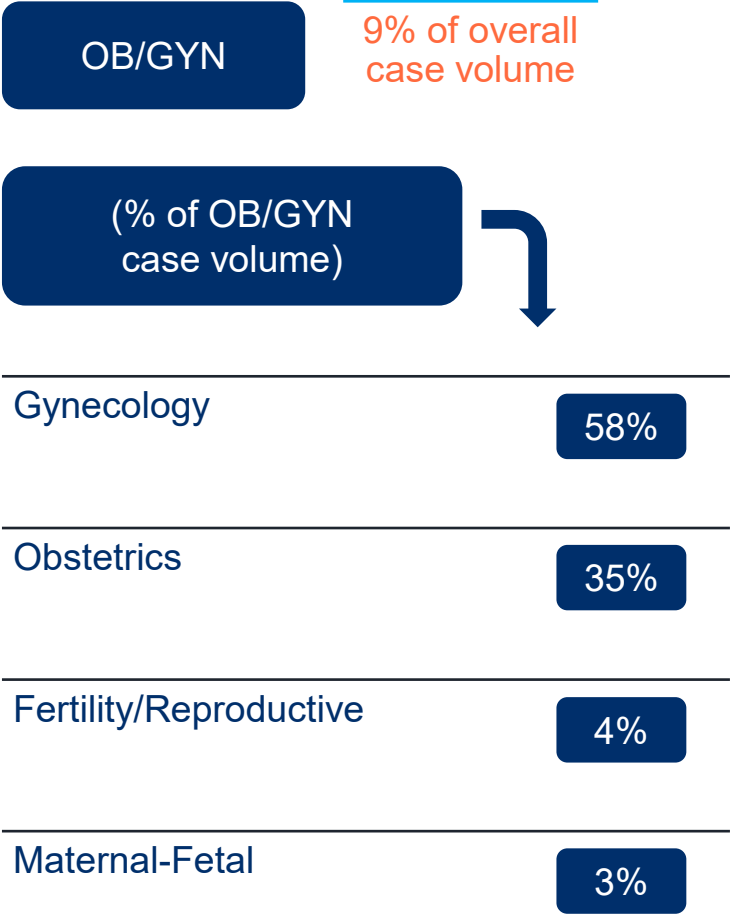
34% of
overall case
volume

Most common
(% of surgical specialty
case volume)



Orthopedics	33%
Ophthalmology	15%
Podiatry	11%
Plastic surgery	10%
Urology surgery	9%
Otorhinolaryngology	7%

Primary Responsible Service Details, continued



Primary Responsible Services by Their Most Common Case Types

Medicine specialties

Diagnosis-related

Failure/Delay/Wrong

Medication-related

Improper management of medication regimen

Allied health

Medical treatment & procedures

Improper performance of treatment/procedure

Diagnosis-related

Failure/Delay/Wrong

Surgical specialties

Surgical treatment & procedures

Improper management of surgical patient

Diagnosis-related

Failure/Delay/Wrong

Pediatrics

Diagnosis-related

Failure/Delay/Wrong

Medical treatment & procedures

Improper performance of treatment/procedure

OB/GYN

Diagnosis-related

Failure/Delay/Wrong

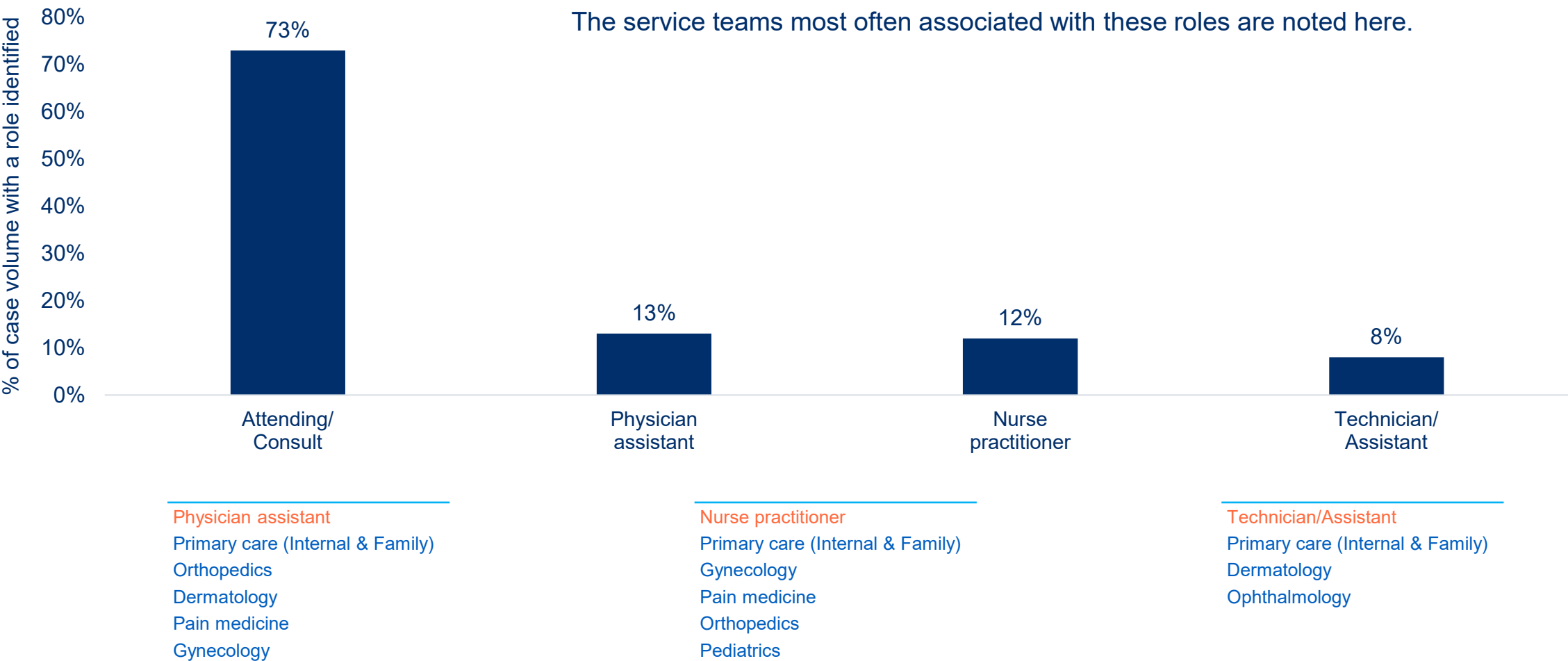
Surgical treatment & procedures

Improper management of pregnancy

Most Common Primary Responsible Service Roles

Roles reflect the specific position(s) within the service team involved at the time of the event. There may be multiple roles identified in a single case within the same service team (i.e., a physician assistant and an attending/consult – both practicing medicine under the orthopedic service).

The service teams most often associated with these roles are noted here.



Clinical Severity*

Clinical severity* categories	Sub-categories	% of case volume	Definitions
LOW	Emotional Injury Only	8%	Mental distress or suffering that is generally temporary; includes HIPAA violations, discrimination, involuntary stay
	Temporary Insignificant Injury		Lacerations, contusions, minor scars, rash; no delay in recovery
MEDIUM	Temporary Minor Injury	43%	Infection, fracture set improperly or a fall in the facility, where recovery is complete but delayed
	Temporary Major Injury		Burns, drug side effect; recovery delayed
	Permanent Minor Injury		Loss of fingers or loss or damage to organs; includes non-disabling injuries
HIGH	Significant Permanent Injury	49%	Deafness, loss of limb, loss of eye or loss of one kidney or lung
	Major Permanent Injury		Paraplegia, blindness, loss of two limbs or brain damage
	Grave Injury		Quadriplegia, severe brain damage, life-long care or fatal prognosis
	Death		Death
		18%	% of cases resulting in patient death



Contributing Factors

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.

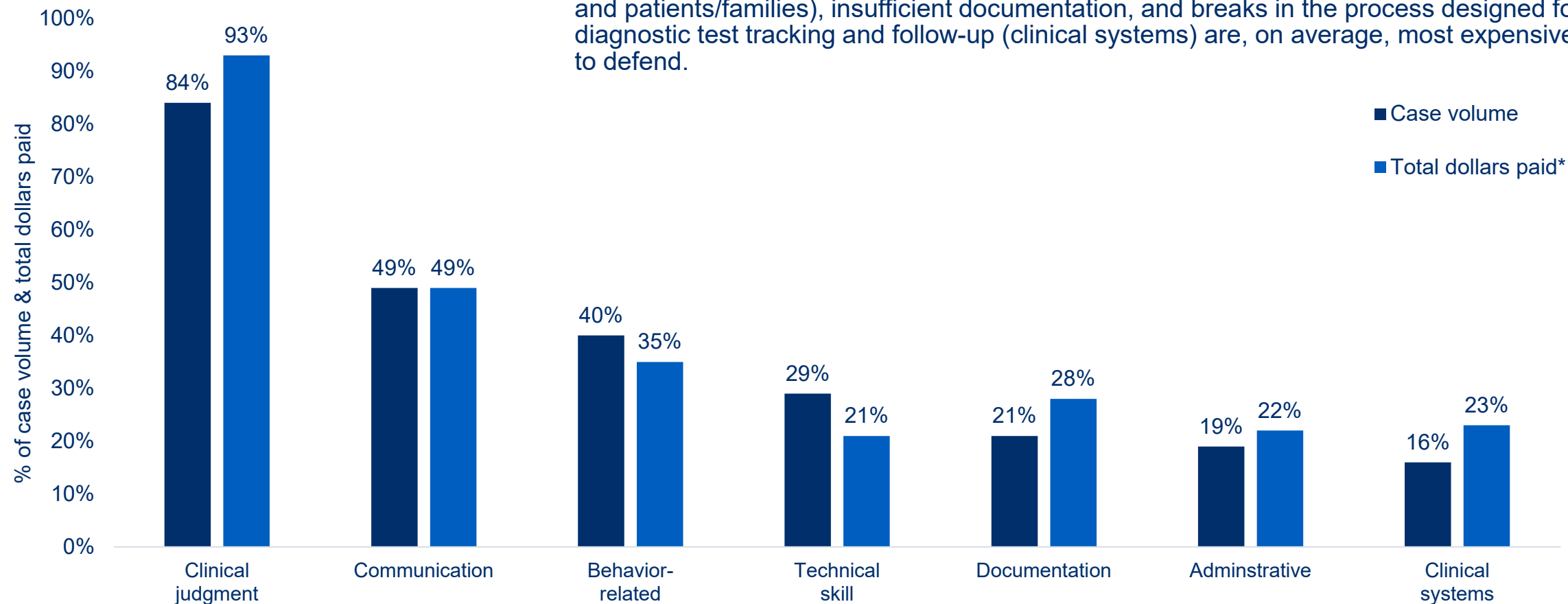
Multiple factors are identified in each case because generally, there is not just one issue that leads to these cases, but rather a combination of issues.

*See contributing factor definitions at the end of this report.

Most Common Contributing Factor Categories & Financial Severity

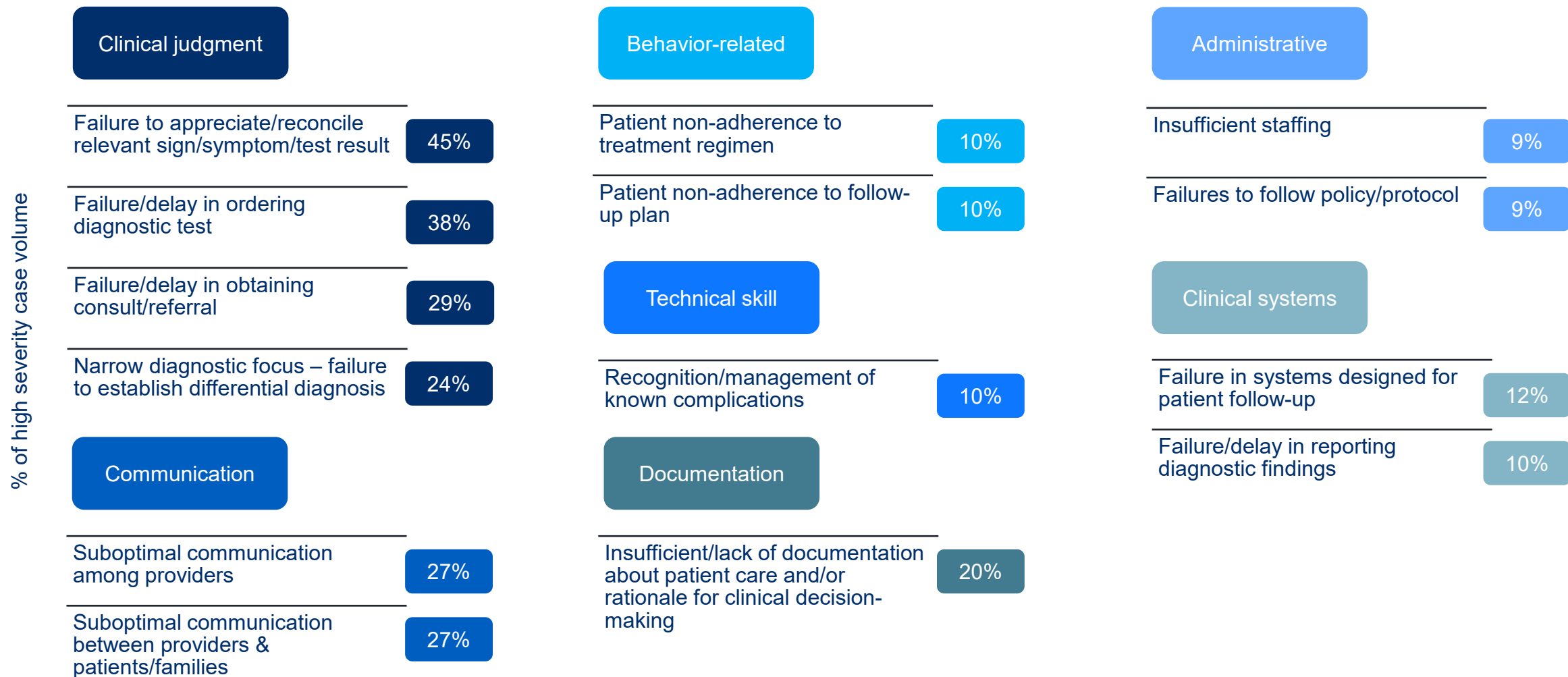
More than three-fourths of all cases reflect clinical judgment issues, most often involving inadequate patient assessments.

Cases reflecting sub-optimal communication (among providers and between providers and patients/families), insufficient documentation, and breaks in the process designed for diagnostic test tracking and follow-up (clinical systems) are, on average, most expensive to defend.



Contributing Factor Details: Drivers of Clinical* Severity

These failures in the process of care are among those most commonly noted in cases involving a high clinical severity outcome.



Case Examples: Contributing Factors as Drivers of Severity*

Clinical judgment

Failure to appreciate signs/symptoms

Chest CT for patient with extensive smoking and asbestos exposure history revealed ill-defined nodular density in lung noted as "cannot exclude malignancy". PET imaging was recommended. Subsequent treating pulmonologist did not order PET, and treated patient over next two years for variety of worsening pulmonary symptoms with accompanying weight loss. When PET scan was finally ordered, it revealed metastatic small cell carcinoma. Patient died one month later. **(\$550K indemnity paid)**

Communication

Suboptimal communication among providers and with family

At age 8, patient noted by pediatric practice to be obese and pre-diabetic. Was referred to endocrinology, and then back to pediatrics. For the next 3 years, was seen by multiple providers in the practice; repeated instances of inconsistent chart documentation, no evidence that providers were communicating findings/plan of care with each other, failures to order blood glucose testing, and failures to recommend a medication regimen. Patient's family failed to perform weekly weight checks and to obtain ordered lab work when at one point, he was referred to a dietician and bariatric specialist (English noted as family's second language). Ultimately, at age 15, patient developed diabetic ketoacidosis, resulting in anoxic brain injury. **(\$700K indemnity paid)**

Behavior-related

Patient non-adherence to medication regimen

Patient of pain medicine clinic weaned herself off of oxycodone. Two years later, she returned to the clinic requesting opiates due to lower back pain. A 7-day supply was prescribed, and an MRI was ordered (not obtained by patient). No urine drug screen was done. Prescription refilled by phone as a 30-day supply one week later, again with no drug screen. Then patient was required to present monthly to the clinic. Nurse practitioner noted patient's intent to wean herself from opiates again, and mental health screen noted to be normal; a second refill was ordered. Patient overdosed one day later. **(\$375K indemnity paid)**

Technical skill

Failure to recognize/manage post-operative complication

At the first post-op visit following repair of ankle fracture, patient's foot was dusky, with "pins and needles" feeling. No vascular workup was done; orthopedic surgeon prescribed a short leg cast and scheduled a return visit for 2 weeks. At that time, symptoms had worsened, ultimately resulting in a below-the-knee amputation due to gangrenous tissue. **(\$2M indemnity paid)**

Case Examples: Contributing Factors as Drivers of Severity*

Documentation

Lack of documentation about plan for patient care

Optometry patient with family history of glaucoma found to have high intraocular pressures on separate visits two years apart; no documentation about exact readings. Note entered into chart that patient should be scheduled for third visit, but no documentation about whether that appointment was made or kept. No documentation about differential diagnoses, nor whether the patient was advised of the concern for glaucoma. Patient then referred to ophthalmologist one year later, but no documentation as to who initiated the referral. Found to have bilateral severe glaucoma and is now legally blind. **(\$800K indemnity paid)**

Administrative

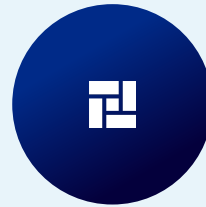
Failure to follow policy

Due to patient's unexplained chest pain and a variety of other symptoms, primary care provider ordered consults with cardiology and gastroenterology. Office policy required scheduling to be done by office staff, and that an inability to schedule must be communicated to the provider. Gastroenterology consult was scheduled, but cardiology consult was not, due to an inability to find an available date. Primary care provider was not notified. The patient then missed a follow-up primary care appointment but was not contacted to reschedule (as per policy). Two weeks later, the patient suffered a fatal myocardial infarction. **(\$650K indemnity paid)**

Clinical systems

Failure to follow-up on diagnostic testing

Patient discharged from ED with suspected viral illness with several diagnostic test results pending, including one for Rocky Mountain Spotted Fever (RMSF). Call placed by patient to primary care provider later the same day for continued symptoms. ED record was reviewed but patient was told no appointment needed. A second call was made the following day; patient was again told no appointment was necessary, and the provider did not obtain now-available test results. Patient admitted to hospital that evening. Lab results were positive for RMSF. Patient became septic and sustained permanent damage, including amputation of his fingers and neurological impairment. **(\$700K indemnity paid)**



Focus by Case Type

The following pages provide additional insights by case type.

Focus on Diagnosis-Related Cases

Most common...

Inclusive of wrong
diagnoses,
failures/delays, and
misdiagnoses



No additional
differentiation is made
between wrong
diagnoses,
failures/delays and
misdiagnoses.

% of case volume

Diagnoses:

Malignancies: 45% (lung, colon, prostate, breast)

Circulatory system: 13% (cardiac & cerebrovascular disease)

Complications of treatment: 9%

Injuries:

Malignancy: 41%

Infection: 7%

Organ damage: 5%

Embolism/Thrombosis: 4%

Responsible services:

Family medicine: 20%

Internal medicine: 16%

Orthopedics: 7%

Gynecology: 7%

Contributing factor details:

Failure to appreciate/reconcile relevant sign/symptom/test result: 50%

Failure/delay ordering diagnostic test: 48%

Narrow diagnostic focus (failure to establish differential diagnosis): 34%

Suboptimal communication among providers: 16%

Focus on the Diagnostic Process of Care

Note key opportunities to reduce errors along the diagnostic process of care*. Each percentage indicates the volume of cases impacted by the issues in each phase.

Phase 1

Initial diagnostic assessment 88%	Patient notes problem & seeks care
	History & physical
	Patient assessed, symptoms evaluated
	Differential diagnosis established
	Diagnostic testing ordered

Phase 2

Testing and results processing 25%	Performance of diagnostic tests
	Interpretation of diagnostic test results
	Test results transmitted to/received by ordering provider

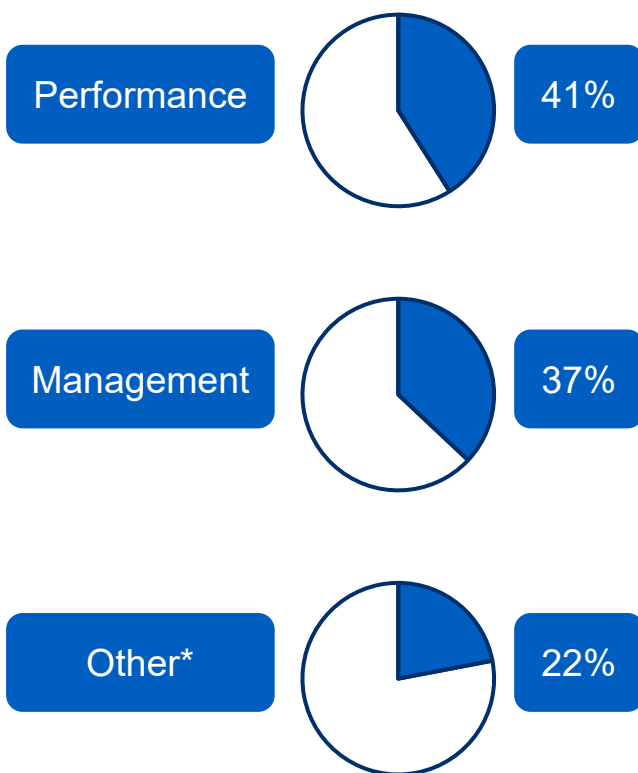
Phase 3

Follow-up and coordination 70%	Physician follows-up with patient
	Referrals/Consults
	Patient information communicated among care team
	Patient compliance with follow-up plan



Focus on Medical Treatment & Procedure Cases

Performance and management issues drive the majority of medical case volume.



% of case volume

Most common...

Procedures in performance cases:

Therapeutic procedures (i.e. steroid injections, laser treatment): 14%

Skin lesion excisions: 11%

Management case details:

Treatment and management of the patient through the pre- and post-procedure periods; includes recognition and management of complications

Injuries in all case types:

Burn: 12%

Infection: 9%

Puncture/Perforation: 5%

Responsible services in all case types:

Dermatology: 14%

Family medicine: 10%

Internal medicine: 8%

Orthopedics: 8%

Pain medicine: 7%

Contributing factor details in all case types:

Recognition & management of complications: 30%

Failure to appreciate/reconcile relevant sign/symptom/test result: 22%

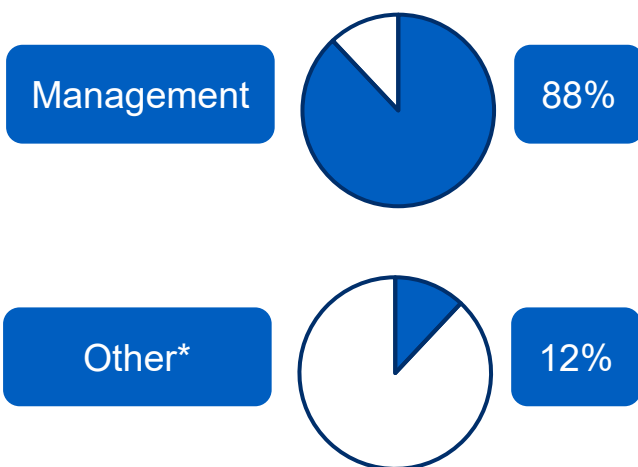
Procedural decision-making process, including appropriateness of the patient for the procedure: 20%

Suboptimal communication with patient/family re management of expectations: 19%

Focus on Surgical Treatment & Procedure Cases

Management issues drive the majority of surgical case volume.

Most common...



% of case volume

Management case details:

Treatment & management of the patient through the pre- & post-surgical periods; includes recognition & management of complications

Injuries in all case types:

Infection: 18%
Nerve damage: 7%
Malunion/Nonunion: 6%
Aggravated/Worsened condition: 5%

Responsible services in all case types:

Orthopedics: 35%
Podiatry: 11%
Ophthalmology: 11%
Plastic: 9%

Contributing factor details in all case types:

Procedural decision-making process, including appropriateness of patient for invasive procedure: 63%
Recognition & management of complications: 47%
Failure to appreciate/reconcile relevant sign/symptom/test result: 45%
Patient dissatisfaction with care & seeking other providers: 27%
Suboptimal communication with patient/family re management of expectations: 23%
Failure/delay in ordering diagnostic test: 22%
Inadequate response to repeated patient concerns/symptoms: 21%

Focus on Medication-Related Cases & the Process of Care

Most common medications:

Analgesics/Narcotics: 23%

Anticoagulants: 10%

Antibiotics: 10%

Most common responsible services

Family medicine: 21%

Internal medicine: 14%

Pain medicine: 11%

Note key opportunities to reduce errors along the medication process of care*. Each percentage indicates the volume of cases impacted by the issues in each phase.

Phase 1

Ordering
10%
of cases

Includes failures to order, & wrong medication/dose/route orders

Phase 2

Dispensing
0%
of cases

Includes pharmacy dispensing of wrong medication/dose/method (route)

Phase 3

Administration
5%
of cases

Includes failures to medicate, administration wrong medication/dose/route

Includes technique involved with medication administration

Phase 4

Monitoring & management
66%
of cases

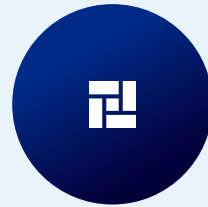
Includes management of regimen/patient response/reaction

Includes monitoring immediately after medication administration

Phase 5

Other
18%
of cases

Includes other process of care issues not captured in the previous steps, including patients with unknown allergies & cases in which medication shortages, contaminations or recalls impact the delivery of care



Definitions

Case Types & Contributing Factors

Definitions: Most Common Primary Case Types

Anesthesia-related: Management and treatment of the anesthesia patient; inclusive of pre-, intra-, and post-anesthesia periods, including performance of anesthesia procedures, diagnosing complications and immediate post-procedure pain management

Diagnosis-related: Encompasses delayed, missed and wrong diagnoses; inclusive of management of incidental findings

Medical treatment & procedures: Management and treatment of patients to address diseases and disorders; inclusive of the performance of medical and diagnostic procedures

Medication-related: Reflective of the medication delivery process, including ordering, dispensing and administering; inclusive of technique issues during administration

OB-related: Management and treatment of pregnancy; inclusive of antepartum, labor, delivery and post-partum periods; inclusive of diagnosing pregnancy-related maternal and fetal health conditions and performing OB procedures

Patient environment: Inclusive of falls and other preventable injuries during care, including physical safety (i.e., injury from equipment, surgical fires), infection control in the patient care areas, and security issues (i.e., assault)

Patient monitoring: Reflective of bedside observations and response to patients' physiologic or psychiatric reactions to disease, condition, injury or treatment

Provider behavior: Inappropriate behavior, including sexual misconduct

Surgical treatment & procedures: Management and treatment of the surgical patient; inclusive of pre-, intra-, and post-operative periods, performance of surgical procedures, and retained foreign bodies

Definitions: Most Common Contributing Factors

Administrative: Factors related to the reporting of adverse events, adequacy of staffing, staff education/training, ethics, failure to follow and/or need for policy/protocols

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, diagnostic decision-making, 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 diagnostic testing, reporting findings, follow-up systems, patient identification, specimen handling, nosocomial infections

Communication: Factors related to communication between providers, among patient/family and providers; includes electronic communication (texting, email, etc.) and telehealth/tele-radiology

Documentation: Factors related to inaccuracy, insufficiency, altered or inappropriate content

Supervision: Factors related to supervision of nursing, staff, advanced practice clinicians

Technical skill: Factors related to improper use of equipment, medication errors, retained foreign bodies, and the technical performance of procedures

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.

Using Candello's sophisticated coding taxonomy to code claims data, MedPro and MLMIC are better able to highlight the critical intersection between quality and patient safety and provide insights into minimizing losses and improving outcomes.

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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