

Medical Chronology / Medication Analysis

Case: test-case-5-6143587d 0932 ce 510d 808 ba 396 be 34 fb

Chronology QA — attention required

29 advisory QA signal(s) require attorney review

Advisories

- Records reflect differing surface/mechanism descriptions (kitchen floor vs ice/slip)
- Records describe injury to left shoulder while mechanism references right hip impact
- Patient account reflects uncertainty or shifting mechanism details
- Records reference conflicting primary injury regions (left shoulder, right hip)
- Mechanism-of-injury contradiction documented across encounters (e.g., hip vs shoulder / kitchen vs ice)
- Records reflect differing surface/mechanism descriptions (kitchen floor vs ice/slip)
- Records describe injury to left shoulder while mechanism references right hip impact
- Patient account reflects uncertainty or shifting mechanism details

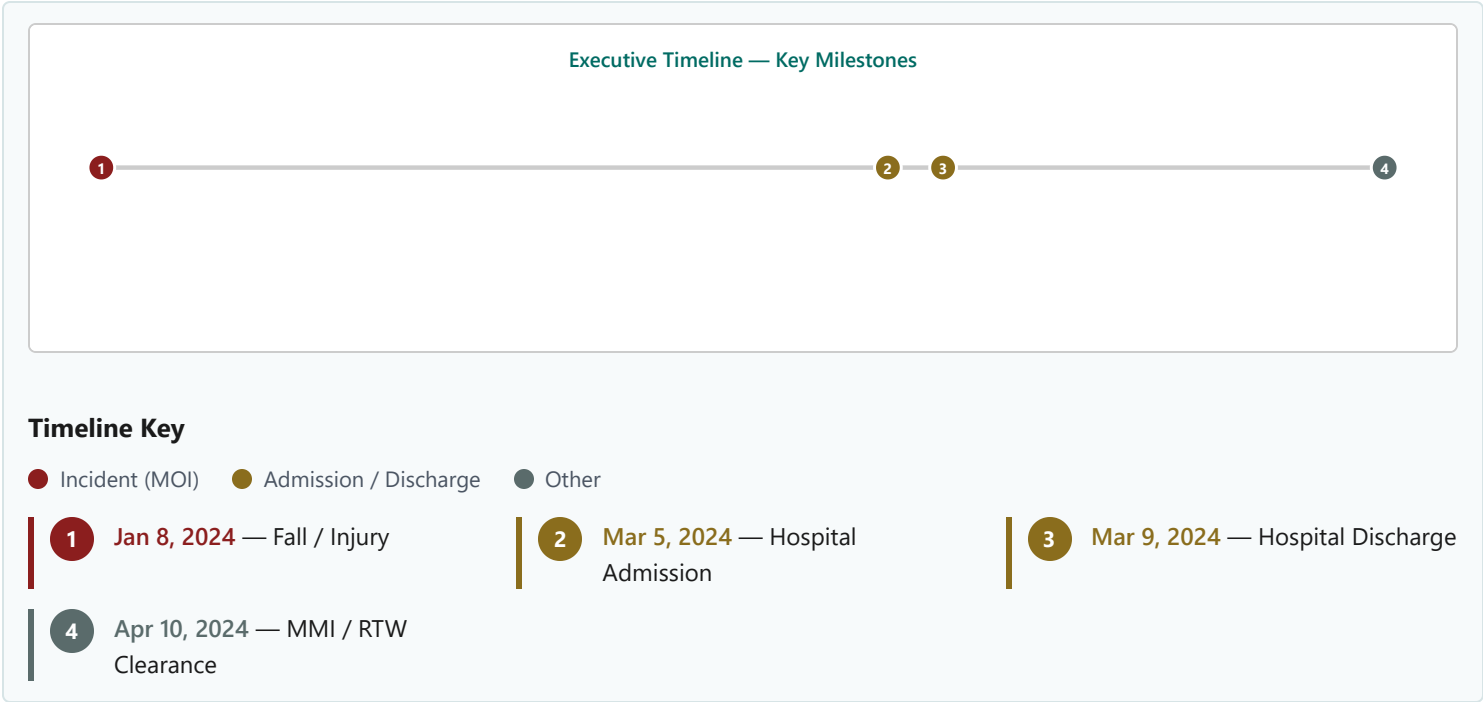
Export is allowed — you will be prompted to confirm QA warnings before download.

Core Foundation

Patient Name	[Name]
Date of Birth	[DOB]
MRN	[MRN]
Facilities	Mountain View Imaging Center; Riverside Family Medicine; Quick Care Urgent Clinic; Metro General Hospital; Metro General Imaging; Harlan Shoulder Clinic; Peak Motion Physical Therapy; Metro Neuro Associates
Providers	A. Nguyen, PA-C; M. Harlan, MD; K. Patel, MD; R. Okonkwo, MD; L. Cho, MD; J. Ruiz, DPT; S. Bernstein, MD

Executive Summary

Key litigation milestones (numbered key)



Case Summary

Medical chronology synthesized from indexed encounters, diagnostics, medications, and discharge milestones in the uploaded record set. The course includes inpatient hospitalization with sepsis/resuscitation protocol concerns on the available record

Chronological Timeline

Date	Encounter / Summary	Event ID
12/15/2023	Primary Care — Pre-Existing — ENCOUNTER 01 — Primary Care — Pre-Existing Date: 12/15/2023 Pre-index chronic LBP (pre-existing condition module) FACILITY: Riverside Family Medicine Visit Date...	2023-12-15
01/08/2024	Urgent Care Visit — ENCOUNTER 02 — Urgent Care Visit Date: 01/08/2024 Index fall; mild shoulder/hip; no imaging; PCP f/u not booked FACILITY: Quick Care Urgent Clinic Visit Date: 01/08/2024 Provider: A. Nguyen...	2024-01-08
01/12/2024	Primary Care Office — ENCOUNTER 03 — Primary Care Office Date: 01/12/2024 NO-SHOW / MISSED APPOINTMENT (care-gap) FACILITY: Riverside Family Medicine Patient: [Name]	2024-01-12
01/19/2024	EMERGENCY Department Visit — ENCOUNTER 04 — EMERGENCY Department Visit Date: 01/19/2024 ED: MOI contradiction; vitals non-escalation; fake med/ICD; delayed XR FACILITY: Metro General Hospital — EMERGENCY DEPT Arrival: 01/19/2024 14:22 Patient: [Name]	2024-01-19
01/19/2024	Radiology / Imaging Report — ENCOUNTER 05 — Radiology / Imaging Report Date: 01/19/2024 Delayed XR left shoulder (delayed imaging key event) FACILITY: Metro General Imaging	2024-01-19
01/20/2024	Pharmacy Fill Record — ENCOUNTER 06 — Pharmacy Fill Record Date: 01/20/2024 CVS initial opioid + NSAID (days supply for early-refill math) PHARMACY FILL / DISPENSE RECORD Pharmacy: CVS Pharmacy #4821 — 1200 Oak Ave Patient: [Name]	2024-01-20_403400d7
01/24/2024	Orthopedic Clinic — ENCOUNTER 07 — Orthopedic Clinic Date: 01/24/2024 Ortho eval; MRI + PT ordered FACILITY: Harlan Shoulder Clinic — Orthopedics Visit Date: 01/24/2024 Patient: [Name]	2024-01-24

Date	Encounter / Summary	Event ID
02/05/2024	MRI Imaging — ENCOUNTER 08 — MRI Imaging Date: 02/05/2024 Delayed MRI (~12 days after ortho) FACILITY: Mountain View Imaging Center Patient: [Name]	2024-02-05
02/08/2024	Physical Therapy Evaluation — ENCOUNTER 09 — Physical Therapy Evaluation Date: 02/08/2024 PT eval + multi-session plan (trajectory baseline) ==== PT EVAL / OUTPT REHAB ==== Facility: Peak Motion Physical Therapy Date of Service: 02/08/2024 Pt: [Name]	2024-02-08
02/12/2024	Physical Therapy Progress — ENCOUNTER 10 — Physical Therapy Progress Date: 02/12/2024 Session improvement Peak Motion Physical Therapy — PROGRESS NOTE DOS: 02/12/2024 Patient: [Name]	2024-02-12
02/14/2024	Pharmacy Fill Record — ENCOUNTER 11 — Pharmacy Fill Record Date: 02/14/2024 Walgreens early opioid refill + pharmacy hopping PHARMACY FILL / REFILL RECORD Pharmacy: Walgreens #2290 — different chain from prior CVS fill Patient: [Name]	2024-02-14
02/18/2024	Orthopedic Follow-up — ENCOUNTER 12 — Orthopedic Follow-up Date: 02/18/2024 MRI review; delayed neurology for hand tingling Harlan Shoulder Clinic — FOLLOW-UP Visit Date: 02/18/2024 Patient: [Name]	2024-02-18
02/22/2024	Physical Therapy Progress — ENCOUNTER 13 — Physical Therapy Progress Date: 02/22/2024 Missed appointment + regression language PT NOTE — Peak Motion Date: 02/22/2024 Pt: [Name] — L shldr Scheduled session: MISSED APPOINTMENT — patient no-show...	2024-02-22
03/01/2024	Urgent Care Visit — ENCOUNTER 14 — Urgent Care Visit Date: 03/01/2024 Acute flare; abnormal vitals not escalated FACILITY: Quick Care Urgent Clinic Visit Date: 03/01/2024 Patient: [Name]	2024-03-01_66635856
03/02/2024	Pharmacy Fill Record — ENCOUNTER 15 — Pharmacy Fill Record Date: 03/02/2024 CVS refill; multi-pharmacy pattern continues PHARMACY DISPENSE LOG Pharmacy: CVS Pharmacy (OCR abbreviated — not #4821) Patient: [Name]	2024-03-02
03/05/2024	Hospital Admission — Inpatient — [Name]	2024-03-05
03/11/2024	Neurology Consult — ENCOUNTER 18 — Neurology Consult Date: 03/11/2024 Delayed neuro consult (~7 weeks after paresthesias) FACILITY: Metro Neuro Associates Consult Date: 03/11/2024 Patient: [Name]	2024-03-11
03/15/2024	EMG / Nerve Study — ENCOUNTER 19 — EMG / Nerve Study Date: 03/15/2024 Electrodiagnostics supporting CTS Metro Neuro Associates — EMG/NCS REPORT Study Date: 03/15/2024 Patient: [Name]	2024-03-15
03/18/2024	MRI Hip (Out-of-Order Date Stress) — ENCOUNTER 20 — MRI Hip (Out-of-Order Date Stress) Date: 03/18/2024 Hip MRI dated after shoulder saga (chronology ordering stress) FACILITY: Mountain View Imaging Center Patient: [Name]	2024-03-18
03/20/2024	Pharmacy Fill Record — ENCOUNTER 21 — Pharmacy Fill Record Date: 03/20/2024 Gabapentin start; return to CVS #4821 RETAIL PHARMACY FILL Pharmacy: CVS Pharmacy #4821 (return to original store) Patient: [Name]	2024-03-20
04/10/2024	Orthopedic MMI / RTW Summary — ENCOUNTER 24 — Orthopedic MMI / RTW Summary Date: 04/10/2024 MMI reached; return to work; demand/damages facts Harlan Shoulder Clinic — MMI / WORK STATUS Date: 04/10/2024 Patient: [Name]	2024-04-10
04/05/2024	Physical Therapy Progress — Plateau / MMI path — ENCOUNTER 23 — Physical Therapy Progress — Plateau / MMI path Date: 04/05/2024 PT plateau language for MMI/RTW Peak Motion Physical Therapy — PROGRESS DOS: 04/05/2024 Patient: [Name]	2024-04-05

Timeline Reasoning & Discrepancies

Timeline Reasoning & Discrepancies

24 timeline discrepancy signal(s) flagged across chart events, medications, and photo evidence (24 item(s); 9 error; 15 warn)

Severity	Category	Message	Detail	Date	Event ID
HIGH	moi contradiction	Records reflect differing surface/mechanism descriptions (kitchen floor vs ice/slip)	kitchen vs ice	01/08/2024	2024-01-08_fe 85a 096
HIGH	moi contradiction	Records describe injury to left shoulder while mechanism references right hip impact	left shoulder vs right hip	01/19/2024	2024-01-19_ae1a 31c8
HIGH	moi contradiction	Patient account reflects uncertainty or shifting mechanism details	patient uncertainty	01/24/2024	2024-01-24_4f 543a 45
HIGH	moi contradiction	Records reference conflicting primary injury regions (left shoulder, right hip)	left shoulder vs right hip		
HIGH	key event flag	Abnormal vitals documented without evidence of clinical escalation		01/08/2024	2024-01-08
HIGH	moi contradiction	Mechanism-of-injury contradiction documented across encounters (e.g., hip vs shoulder / kitchen vs ice)		01/19/2024	2024-01-19
HIGH	key event flag	Pharmacy hopping / multi-pharmacy early-refill pattern present		02/14/2024	2024-02-14
MEDIUM	medication	Medication coverage gap: Toradol 30 mg IM — 1 gap(s), 41 day(s)			
MEDIUM	medication	Medication coverage gap: Lisinopril 10 mg PO daily — 1 gap(s), 10 day(s)			
MEDIUM	medication	Toradol 30 mg IM documented as administered on 2024-01-19 with no outpatient/home fill within 30 days			
MEDIUM	medication	Acetaminophen 1,000 mg PO documented as administered on 2024-01-19 with no outpatient/home fill within 30 days			
MEDIUM	medication	Zorpedrine 5 mg IV documented as administered on 2024-01-19 with no outpatient/home fill within 30 days			
MEDIUM	medication	Morphine 4 mg IV documented as administered on 2024-01-19 with no outpatient/home fill within 30 days			
MEDIUM	medication	Ketorolac 60 mg IM documented as administered on 2024-03-01 with no outpatient/home fill within 30 days			
MEDIUM	medication	Vancomycin 1 g IV documented as administered on 2024-03-05 with no outpatient/home fill within 30 days			
MEDIUM	medication	Cefepime 2 g IV documented as administered on 2024-03-05 with no outpatient/home fill			

Severity	Category	Message	Detail	Date	Event ID
		within 30 days			
HIGH	billing	Billing finding: missing modifier 25 em with procedure (n=3)			
HIGH	billing	Billing finding: missing icd for cpt (n=2)			
MEDIUM	billing	Billing finding: cpt icd mismatch (n=11)			
MEDIUM	billing	Billing finding: unbundling conflict (n=3)			
MEDIUM	billing	Billing finding: duplicate line (n=2)			
MEDIUM	billing	Billing finding: bilateral modifier 50 review (n=1)			
MEDIUM	billing	Billing finding: injection with unrelated dx (n=1)			
MEDIUM	billing	Billing finding: out of order date (n=1)			

Medication Timeline

Date	Medication	Context	Provider	Event ID
01/08/2024	(patient reported): - Lisinopril 10 mg PO daily - Atorvastatin 20 mg PO nightly - Multivitamin daily	Home med	A. Nguyen, PA-C	2024-01-08
01/08/2024	ibuprofen. Return if worsens. No imaging ordered. Home Medications (patient reported): - Lisinopril 10 mg PO daily	Home med	A. Nguyen, PA-C	2024-01-08
01/19/2024	Toradol 30 mg IM	Administered in facility		2024-01-19
01/19/2024	Acetaminophen 1,000 mg PO	Administered in facility		2024-01-19
01/19/2024	Zorpedrine 5 mg IV Synthetic placeholder	Administered in facility		2024-01-19
01/19/2024	Morphine 4 mg IV	Administered in facility		2024-01-19
01/20/2024	Hydrocodone-Acetaminophen 5-325 mg		R. Okonkwo, MD	2024-01-20_403400d7
01/20/2024	Ibuprofen 800 mg		R. Okonkwo, MD	2024-01-20_403400d7
01/24/2024	Lisinopril 10 mg qhs	Home med	M. Harlan, MD	2024-01-24
01/24/2024	APAP 5-325 PRN (from ED) - Ibuprofen 800 mg TID Unknown med	Home med	M. Harlan, MD	2024-01-24
01/24/2024	daily - Atorvastatin 20 mg Unknown med	Home med	M. Harlan, MD	2024-01-24

Date	Medication	Context	Provider	Event ID
01/24/2024	Hydrocodone-Acetaminophen 5-325 PRN (from ED) - Ibuprofen 800 mg TID		M. Harlan, MD	2024-01-24
02/14/2024	Cyclobenzaprine 10 mg		M. Harlan, MD	2024-02-14
02/14/2024	Hydrocodone-Acetaminophen 5-325 mg		M. Harlan, MD	2024-02-14
02/18/2024	Gastrozex Synthetic placeholder	(non-formulary test)		2024-02-18
02/18/2024	Painsolve Synthetic placeholder	(non-formulary test)		2024-02-18
03/01/2024	Ketorolac 60 mg IM	Administered in facility		2024-03-01_66635856
03/01/2024	Toradol 60 mg			2024-03-01_66635856
03/02/2024	Ibuprofen 800 mg		A. Nguyen, PA-C	2024-03-02
03/02/2024	ondansetron 4 mg		A. Nguyen, PA-C	2024-03-02
03/05/2024	Vancomycin 1 g IV	Administered in facility		2024-03-05
03/05/2024	Cefepime 2 g IV	Administered in facility		2024-03-05
12/15/2023	Lisinopril 10 mg PO daily	Home med	A. Nguyen, PA-C	2023-12-15
12/15/2023	Atorvastatin 20 mg PO	Home med	A. Nguyen, PA-C	2023-12-15

Procedures Timeline

Date	Procedure	Type	Facility	Event ID
01/19/2024	shoulder	procedure	Metro General Hospital	2024-01-19
02/08/2024	shoulder	procedure	Peak Motion Physical Therapy	2024-02-08
02/18/2024	shoulder	procedure		2024-02-18
03/05/2024	shoulder	procedure	Metro General Hospital	2024-03-05
03/11/2024	cervical spine	procedure	Metro Neuro Associates	2024-03-11
04/10/2024	shoulder	procedure		2024-04-10

Discharge Timeline

Date	Encounter	Summary	Event ID
01/19/2024	EMERGENCY Department Visit	ENCOUNTER 04 — EMERGENCY Department Visit Date: 01/19/2024 ED: MOI contradiction; vitals non-escalation; fake med/ICD; delayed XR FACILITY: Metro General Hospital — EMERGENCY DEPT Arrival: 01/19/2024 14:22 Patient: [Name]	2024-01-19
03/05/2024	Hospital Admission — Inpatient	ENCOUNTER 17 — Hospital Admission — Inpatient Date: 03/05/2024 True hospitalization admit/LOS/procedure/discharge FACILITY: Metro General Hospital — INPATIENT Patient: [Name]	2024-03-05
04/10/2024	Orthopedic MMI / RTW Summary	ENCOUNTER 24 — Orthopedic MMI / RTW Summary Date: 04/10/2024 MMI reached; return to work; demand/damages facts Harlan Shoulder Clinic — MMI / WORK STATUS Date: 04/10/2024 Patient: [Name]	2024-04-10

Key Events / Flags

Date	Flags	Severity	Summary	Event ID
01/08/2024	Red Flag	moderate	Index fall; mild shoulder/hip; no imaging; PCP f/u not booked	2024-01-08
01/08/2024	Vitals Non Escalation	high	Abnormal vitals documented without evidence of clinical escalation	2024-01-08
01/12/2024	Missed Appointment	medium	Missed / no-show appointment documented	2024-01-12
01/19/2024	Delayed Imaging	medium	Imaging delayed relative to order / clinical expectation	2024-01-19
01/19/2024	Moi Contradiction	high	Mechanism-of-injury contradiction documented across encounters (e.g., hip vs shoulder / kitchen vs ice)	2024-01-19
01/19/2024	Vitals Non Escalation	high	Abnormal vitals documented without evidence of clinical escalation	2024-01-19
01/24/2024	Moi Contradiction	high	Mechanism-of-injury contradiction documented across encounters (e.g., hip vs shoulder / kitchen vs ice)	2024-01-24
02/05/2024	Delayed Imaging	medium	Imaging delayed relative to order / clinical expectation	2024-02-05
02/14/2024	Early Refill	medium	Early refill signal present (non-opioid or unspecified class)	2024-02-14
02/14/2024	Pharmacy Hopping	high	Pharmacy hopping / multi-pharmacy early-refill pattern present	2024-02-14
02/18/2024	Delayed Imaging	medium	Imaging delayed relative to order / clinical expectation	2024-02-18
02/18/2024	Delayed Specialty Consult	medium	Delayed specialty consult relative to referral / clinical course	2024-02-18
02/22/2024	Missed Appointment	medium	Missed / no-show appointment documented	2024-02-22
03/01/2024	Vitals Non Escalation	high	Abnormal vitals documented without evidence of clinical escalation	2024-03-01_66635856
03/02/2024	Pharmacy Hopping	high	Pharmacy hopping / multi-pharmacy early-refill pattern present	2024-03-02
03/05/2024	Red Flag	moderate	True hospitalization admit/LOS/procedure/discharge	2024-03-05

Date	Flags	Severity	Summary	Event ID
03/11/2024	Delayed Specialty Consult	medium	Delayed specialty consult relative to referral / clinical course	2024-03-11
04/10/2024	Red Flag	moderate	MMI reached; return to work; demand/damages facts	2024-04-10

Document Index

Date	Source File	Encounter	Provider	Facility	Event ID
01/08/2024	_Full Case_[Name].json	Urgent Care Visit	A. Nguyen, PA-C	Quick Care Urgent Clinic	2024-01-08_fe 85a 096
01/12/2024	_Full Case_[Name].json	Primary Care Office		Riverside Family Medicine	2024-01-12_c4 af 5662
01/19/2024	_Full Case_[Name].json	EMERGENCY Department Visit		Metro General Hospital	2024-01-19_ae1a 31c8
01/19/2024	_Full Case_[Name].json	Radiology / Imaging Report		Metro General Imaging	2024-01-19_b1 bc 6979
01/20/2024	_Full Case_[Name].json	Pharmacy Fill Record	R. Okonkwo, MD		2024-01-20_403400d7
01/24/2024	_Full Case_[Name].json	Orthopedic Clinic	M. Harlan, MD	Harlan Shoulder Clinic	2024-01-24_4f 543a 45
02/05/2024	_Full Case_[Name].json	MRI Imaging	L. Cho, MD	Mountain View Imaging Center	2024-02-05_2 cbdae 98
02/08/2024	_Full Case_[Name].json	Physical Therapy Evaluation	J. Ruiz, DPT	Peak Motion Physical Therapy	2024-02-08_371c 582c
02/12/2024	_Full Case_[Name].json	Physical Therapy Progress	J. Ruiz, DPT		2024-02-12_bb 95c8 cc
02/14/2024	_Full Case_[Name].json	Pharmacy Fill Record	M. Harlan, MD		2024-02-14_3 ad 83334
02/18/2024	_Full Case_[Name].json	Orthopedic Follow-up			2024-02-18_ab 811 ef1
02/22/2024	_Full Case_[Name].json	Physical Therapy Progress			2024-02-22_8726 caa7
03/01/2024	_Full Case_[Name].json	Urgent Care Visit		Quick Care Urgent Clinic	2024-03-01_66635856
03/02/2024	_Full Case_[Name].json	Pharmacy Fill Record	A. Nguyen, PA-C		2024-03-02_eeb 399 fa
03/05/2024	_Full Case_[Name].json	Hospital Admission — Inpatient		Metro General Hospital	2024-03-05_a 84 ed8 be
03/11/2024	_Full Case_[Name].json	Neurology Consult	S. Bernstein, MD	Metro Neuro Associates	2024-03-11_667 cb6c7

Date	Source File	Encounter	Provider	Facility	Event ID
03/15/2024	_Full Case_[Name].json	EMG / Nerve Study			2024-03-15_9c1 fa 928
03/18/2024	_Full Case_[Name].json	MRI Hip (Out-of-Order Date Stress)		Mountain View Imaging Center	2024-03-18_f1d 29417
03/20/2024	_Full Case_[Name].json	Pharmacy Fill Record	S. Bernstein, MD		2024-03-20_c 8154c 83
04/05/2024	_Full Case_[Name].json	Physical Therapy Progress — Plateau / MMI path	J. Ruiz, DPT		2024-04-05_593f 7466
04/10/2024	_Full Case_[Name].json	Orthopedic MMI / RTW Summary	M. Harlan, MD		2024-04-10_d 156 fa3d
12/15/2023	_Full Case_[Name].json	Primary Care — Pre-Existing	A. Nguyen, PA-C	Riverside Family Medicine	2023-12-15_58 bca 055

Billing Snapshot

Provisional ledger charge lines: 33 (Billing Analysis). Provisional billed total: \$27,960.00 — not Damage Summary validated settlement; regenerate Damage Summary for anomaly-quarantined specials. Top findings: missing modifier 25 em with procedure (high, n=3); missing icd for cpt (high, n=2); cpt icd mismatch (medium, n=11); unbundling conflict (medium, n=3)

\$27,960.00

PROVISIONAL BILLED

33

PROVISIONAL LEDGER LINES

WARN

BILLING ANALYSIS QA

Provisional OCR/audit ledger — not Damage Summary validated settlement · Billing Analysis.

- HIGH

 missing modifier 25 em with procedure (n=3)
- HIGH

 missing icd for cpt (n=2)
- MEDIUM

 cpt icd mismatch (n=11)
- MEDIUM

 unbundling conflict (n=3)
- MEDIUM

 duplicate line (n=2)
- MEDIUM

 bilateral modifier 50 review (n=1)
- MEDIUM

 injection with unrelated dx (n=1)
- MEDIUM

 out of order date (n=1)

Billing Audit Summary

Provisional deterministic totals from BillingAuditEngine · Source: ocr csv · Line items: 33 · QA WARN — not Damage Summary validated settlement

\$27,960.00

\$0.00

\$0.00

\$27,960.00

PROVISIONAL BILLED	ALLOWED	PAID	BALANCE
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LEDGER QUALITY
Provisional (Billing Analysis)

CURRENCY PARSE RELIABLE
Yes

PROVISIONAL LEDGER LINES
33

These are provisional OCR/audit ledger totals — not Damage Summary validated settlement inventory. Prefer Damage Summary for demand-letter medical specials when anomalous lines have been quarantined.

Findings

Severity	Summary	Count
HIGH	missing modifier 25 em with procedure — 3 (3 codes: 99213, 20610, 99283)	3
HIGH	missing icd for cpt — 2 (2 codes: 97162, 97110)	2
MEDIUM	cpt icd mismatch — 11 (7 codes: 97140, 97110, 70450, 20610, 72148, 93000, 97010)	11
MEDIUM	unbundling conflict — 3 (4 codes: 20610, 99213, 97110, 97010)	3
MEDIUM	duplicate line — 2 (2 codes: 20610, 73030)	2
MEDIUM	out of order date × 1 — out of order date	1
MEDIUM	injection with unrelated dx — 1 (1 codes: 20610)	1
MEDIUM	bilateral modifier 50 review — 1 (1 codes: 20610)	1

Ingestion quality

Severity	Summary	Count
MEDIUM	ocr csv heuristic parse × 12	12
HIGH	invalid date of service × 5	5
HIGH	invalid billed amount × 2	2
HIGH	ocr csv unmapped × 1	1

Medication Analysis

Adherence uses **proportion of days covered (PDC)** — the share of days in the analysis window the patient had medication on hand. Status **Adherent** means PDC meets the 80% threshold commonly used in pharmacy quality measures; otherwise the row is below threshold.

Medication Compliance Engine v1.0.0: 24 fill(s) across 18 medication(s). Average proportion of days covered (PDC): 99.2% (adherence threshold 80.0%). Adherent (≥80% PDC): 18; below threshold: 0. No pharmacy-shopper (early refill + different facility) signals. Unknown / unvalidated medication name(s) retained: APAP 5-325 PRN (from ED) - Ibuprofen 800 mg TID, Cefepime 2 g IV, daily - Atorvastatin 20 mg, Gastrozex, Painsolve, Vancomycin 1 g IV, Zorpedrine 5 mg IV. Medication Clinical Intelligence v1.0.0: 24 fill(s). Drug–drug interaction analyzer v1.0.0: 1 interaction(s) (0 high-severity), 7 contraindication(s), 4 duplicate-therapy overlap(s). Indication ↔ diagnosis alignment v1.0.0: 3 med(s) without supporting diagnosis; 0 indicated med(s) never started; 11 diagnosis row(s). Status=ok. Opioid pathway v1.0.0: 3 opioid fill(s), approx cumulative morphine milligram equivalent (MME) days 4.0, 0 opioid+benzodiazepine overlap(s), 0 early controlled refill(s), diversion risk score 15.0 (low). Coverage gaps v1.0.0: 2 uncovered interval(s) across 17 medication(s) with fill/note citations

Proportion of days covered (PDC) by medication

Medication	PDC (proportion of days covered)	Fills	Status
Acetaminophen 1,000 mg PO	100%	1	Adherent
APAP 5-325 PRN (from ED) - Ibuprofen 800 mg TID Unknown med	100%	1	Adherent
Atorvastatin 20 mg PO	100%	1	Adherent
Cefepime 2 g IV Unknown med	100%	1	Adherent
Cyclobenzaprine 10 mg	100%	1	Adherent
daily - Atorvastatin 20 mg Unknown med	100%	1	Adherent
Gastrozex Synthetic placeholder	100%	1	Adherent
Hydrocodone-Acetaminophen 5-325 mg	100%	3	Adherent
ibuprofen. Return if worsens. No imaging ordered. Home Medications (patient reported): - Lisinopril 10 mg PO daily	100%	3	Adherent
Ketorolac 60 mg IM	100%	1	Adherent
Lisinopril 10 mg PO daily	85.7%	2	Adherent
Morphine 4 mg IV	100%	1	Adherent
ondansetron 4 mg	100%	1	Adherent
(patient reported): - Lisinopril 10 mg PO daily - Atorvastatin 20 mg PO nightly - Multivitamin daily	100%	1	Adherent
Painsolve Synthetic placeholder	100%	1	Adherent
Toradol 30 mg IM	100%	2	Adherent
Vancomycin 1 g IV Unknown med	100%	1	Adherent
Zorpedrine 5 mg IV Synthetic placeholder	100%	1	Adherent

Drug–drug interactions / contraindications

Drug-drug interaction analyzer v1.0.0: 1 interaction(s) (0 high-severity), 7 contraindication(s), 4 duplicate-therapy overlap(s)

- **moderate** Opioid + muscle relaxant additive sedation risk — Hydrocodone-Acetaminophen 5-325 mg + Cyclobenzaprine 10 mg

Contraindications

- **high** NSAID with documented active bleeding (ibuprofen. Return if worsens. No imaging ordered. Home Medications (patient reported): - Lisinopril 10 mg PO daily)
- **high** NSAID with documented active bleeding (Toradol 30 mg IM)
- **high** NSAID with documented active bleeding (Ibuprofen 800 mg)
- **high** NSAID with documented active bleeding (Hydrocodone-Acetaminophen 5-325 PRN (from ED) - Ibuprofen 800 mg TID)
- **high** NSAID with documented active bleeding (Ketorolac 60 mg IM)
- **high** NSAID with documented active bleeding (Toradol 60 mg)
- **high** NSAID with documented active bleeding (Ibuprofen 800 mg)

Duplicate therapy

- Duplicate therapy within nsaid class — ibuprofen. Return if worsens. No imaging ordered. Home Medications (patient reported): - Lisinopril 10 mg PO daily + Toradol 30 mg IM
- Duplicate therapy within nsaid class — ibuprofen. Return if worsens. No imaging ordered. Home Medications (patient reported): - Lisinopril 10 mg PO daily + Hydrocodone-Acetaminophen 5-325 PRN (from ED) - Ibuprofen 800 mg TID
- Duplicate therapy within nsaid class — Ibuprofen 800 mg + Hydrocodone-Acetaminophen 5-325 PRN (from ED) - Ibuprofen 800 mg TID
- Duplicate therapy within nsaid class — Toradol 60 mg + Ibuprofen 800 mg

Indication ↔ diagnosis alignment

Indication ↔ diagnosis alignment v1.0.0: 3 med(s) without supporting diagnosis; 0 indicated med(s) never started; 11 diagnosis row(s). Status=ok

Plaintiff view: 3 medication(s) lack clear supporting diagnosis (potential unsupported / off-indication prescribing narrative)

Defense view: 3 medication(s) without explicit ICD support — may reflect incomplete coding rather than clinical inappropriateness

- Lisinopril 10 mg PO daily (ace inhibitor) lacks a clearly supporting ICD/diagnosis in chronology enrichment
- Morphine 4 mg IV (opioid) lacks a clearly supporting ICD/diagnosis in chronology enrichment
- Hydrocodone-Acetaminophen 5-325 mg (opioid) lacks a clearly supporting ICD/diagnosis in chronology enrichment

Opioid / controlled-substance pathway

Opioid pathway v1.0.0: 3 opioid fill(s), approx cumulative morphine milligram equivalent (MME) days 4.0, 0 opioid+benzodiazepine overlap(s), 0 early controlled refill(s), diversion risk score 15.0 (low)

Diversion risk score (misuse / pharmacy-shopping signals): 15 () — multi prescriber

Cumulative morphine milligram equivalent (MME) days (approx): 4

Coverage Gaps Exhibit

Each gap interval is bounded by the fill that ended coverage and the subsequent fill; citations include event id, date, medication, facility, and source text snippet when available

Coverage gaps v1.0.0: 2 uncovered interval(s) across 17 medication(s) with fill/note citations

Toradol 30 mg IM — 1 gap(s), 41 day(s)

Gap start	Gap end	Days	Citations
2024-01-20	2024-03-01	41	2024-01-19 Toradol 30 mg IM [01/19/2024_ae1a 31c8] @ Metro General Hospital — Toradol 30 mg IM; 2024-03-01 Ketorolac 60 mg IM [03/01/2024_66635856] @ Quick Care Urgent Clinic — Ketorolac 60 mg IM

Lisinopril 10 mg PO daily — 1 gap(s), 10 day(s)

Gap start	Gap end	Days	Citations
2024-01-14	2024-01-24	10	2023-12-15 Lisinopril 10 mg PO daily [12/15/2023_58 bca 055] @ Riverside Family Medicine — Lisinopril 10 mg PO daily; 2024-01-24 Lisinopril 10 mg qhs [01/24/2024_4f 543a 45] @ Harlan Shoulder Clinic — Lisinopril 10 mg qhs

Premium Medication Intelligence

Medication Intelligence v1.1.0: 24 fill(s). Composite risk 38.9/100. Causation maps: 0. Medication fraud heuristics flagged 5 signal(s), including 1 high-severity finding(s). Formulary friction v1.1.0: 2 denial/PA mention(s); 1 linked to subsequent coverage gap(s). 2 event(s) with synthetic/non-formulary medication(s). No structured allergy section agents extracted; allergy-admin conflict detection is data-limited. Discharge continuity v1.0.0: 7 start(s) without outpatient/home fill within 30 days. Billing/CPT/charge data is not present on this chronology; cost crosswalk is data-limited and should not be treated as certainty

Risk Scores

Metric	Score	Label	Detail
Adherence (proportion of days covered)	99.2		Average proportion of days covered (PDC) 99.2% across 18 medication(s)
Pharmacy shopping	42		2 medication(s) filled at ≥2 pharmacies; max distinct pharmacies for one med=2; 0 early-refill/different-pharmacy signal(s)
Therapeutic duplication	100		5 overlapping same-class / therapeutic-duplication window(s). Examples: ibuprofen. Return if worsens. No imaging ordered. Home Medications (patient reported): - Lisinopril 10 mg PO daily ↔ Toradol 30 mg IM (nsaid) 2024-01-08–2024-02-07; ibuprofen. Return if worsens. No imaging ordered. Home Medications (patient reported): - Lisinopril 10 mg PO daily ↔ Hydrocodone-Acetaminophen 5-325 PRN (from ED) - Ibuprofen 800 mg TID (nsaid) 2024-01-08–2024-02-07; Ibuprofen 800 mg ↔ Hydrocodone-Acetaminophen 5-325 PRN (from ED) - Ibuprofen 800 mg TID (nsaid) 2024-01-20–2024-02-19; Ketorolac 60 mg IM ↔ Toradol 60 mg (nsaid) 2024-03-01–2024-03-02; Toradol 60 mg ↔ Ibuprofen 800 mg (nsaid) 2024-03-01–2024-03-31
Drug–drug interaction risk	38		1 curated interaction(s) (0 high-severity) with overlapping coverage. Hydrocodone-Acetaminophen 5-325 mg + Cyclobenzaprine 10 mg: Opioid + muscle relaxant additive sedation risk
Deterioration risk	13.9		Compliance-driven risk 0.8 (from average proportion of days covered / PDC 99.2); 1 event(s) with deterioration/complication language

Metric	Score	Label	Detail
Composite	38.9		Equal-weight blend of inverted compliance, pharmacy shopping, duplication, interaction, and deterioration risk scores

Fraud Signals

Medication fraud heuristics flagged 5 signal(s), including 1 high-severity finding(s)

- moderate

multiple pharmacies: 2 medication(s) filled at multiple pharmacies (max 2 facilities for one med)
- moderate

multiple prescribers: 2 medication(s) associated with multiple prescribers / provider IDs
- elevated

overlapping fills: 1 overlapping same-medication fill interval(s)
- elevated

early refills: 1 early refill(s) before 80% of prior days supply elapsed
- high

diversion pattern: Elevated diversion risk from combined signals: early refills, multiple pharmacies, multiple prescribers

Formulary / prior-auth friction

Formulary friction v1.1.0: 2 denial/PA mention(s); 1 linked to subsequent coverage gap(s). 2 event(s) with synthetic/non-formulary medication(s)

- moderate formulary

 formulary; unknown / not in formulary — Zorpedrine — "Zorpedrine" 5 mg IV (unknown / not in formulary — OCR or invented name) • Morphine 4 mg IV x1 Imaging ordered: XR left shoulder — delayed 3.5 hrs (see imaging report)
- moderate formulary

 OCR/fake names — Gastrozex, Painsolve — ontinued Gastrozex. Started Painsolve. (OCR/fake names for change detection) Billing: CPT 99213 \$195.00 ICD M 75.102 / G 56.02 (carpal tunnel left — provisional)

Allergy–administration conflicts

No structured allergy section agents extracted; allergy–admin conflict detection is data-limited

Discharge → outpatient continuity

Discharge continuity v1.0.0: 7 start(s) without outpatient/home fill within 30 days

- Toradol 30 mg IM documented as administered on 2024-01-19 with no outpatient/home fill within 30 days
- Acetaminophen 1,000 mg PO documented as administered on 2024-01-19 with no outpatient/home fill within 30 days
- Zorpedrine 5 mg IV documented as administered on 2024-01-19 with no outpatient/home fill within 30 days
- Morphine 4 mg IV documented as administered on 2024-01-19 with no outpatient/home fill within 30 days
- Ketorolac 60 mg IM documented as administered on 2024-03-01 with no outpatient/home fill within 30 days
- Vancomycin 1 g IV documented as administered on 2024-03-05 with no outpatient/home fill within 30 days
- Cefepime 2 g IV documented as administered on 2024-03-05 with no outpatient/home fill within 30 days

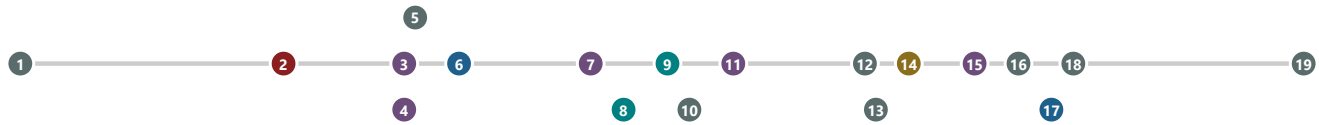
Cost / billing crosswalk

Billing/CPT/charge data is not present on this chronology; cost crosswalk is data-limited and should not be treated as certainty

Visual Timeline

Complete chronological course of care (numbered key)

Visual Timeline — Course of Care



Timeline Key

● Incident (MOI) ● Imaging ● Treatment / Procedure ● Admission / Discharge ● Missed / Delay ● Other

1	Dec 15, 2023 — Pre-Existing — ENCOUNTER	2	Jan 8, 2024 — Fall / Injury	3	Jan 19, 2024 — Fall / Injury
4	Jan 19, 2024 — XR imaging	5	Jan 20, 2024 — ENCOUNTER 06 — Pharmacy F	6	Jan 24, 2024 — MRI imaging
7	Feb 5, 2024 — MRI imaging	8	Feb 8, 2024 — ENCOUNTER 09 — Physical T	9	Feb 12, 2024 — ENCOUNTER 10 — Physical T
10	Feb 14, 2024 — ENCOUNTER 11 — Pharmacy F	11	Feb 18, 2024 — MRI imaging	12	Mar 1, 2024 — ENCOUNTER 14 — Urgent Car
13	Mar 2, 2024 — ENCOUNTER 15 — Pharmacy F	14	Mar 5, 2024 — Hospital Admission	15	Mar 11, 2024 — ENCOUNTER 18 — Neurology
16	Mar 15, 2024 — ENCOUNTER 19 — EMG / Nerv	17	Mar 18, 2024 — MRI imaging	18	Mar 20, 2024 — ENCOUNTER 21 — Pharmacy F
19	Apr 10, 2024 — MMI / RTW Clearance				

Omni Timeline (Photo EXIF)

22 merged events (0 photos, 22 chronology)

Timestamp	Source	Title	Summary
12/15/2023	chronology	Chronology event	Pre-index chronic LBP (pre-existing condition module)
01/08/2024	chronology	urgent care	Index fall; mild shoulder/hip; no imaging; PCP f/u not booked
01/12/2024	chronology	urgent care	NO-SHOW / MISSED APPOINTMENT (care-gap)
01/19/2024	chronology	Chronology event	ED: MOI contradiction; vitals non-escalation; fake med/ICD; delayed XR
01/19/2024	chronology	Chronology event	Delayed XR left shoulder (delayed imaging key event)
01/20/2024	chronology	Chronology event	CVS initial opioid + NSAID (days supply for early-refill math)
01/24/2024	chronology	Chronology event	Ortho eval; MRI + PT ordered

Timestamp	Source	Title	Summary
02/05/2024	chronology	Chronology event	Delayed MRI (~12 days after ortho)
02/08/2024	chronology	Chronology event	PT eval + multi-session plan (trajectory baseline)
02/12/2024	chronology	Chronology event	Session improvement
02/14/2024	chronology	Chronology event	Walgreens early opioid refill + pharmacy hopping
02/18/2024	chronology	office visit	MRI review; delayed neurology for hand tingling
02/22/2024	chronology	Chronology event	Missed appointment + regression language
03/01/2024	chronology	Chronology event	Acute flare; abnormal vitals not escalated
03/02/2024	chronology	Chronology event	CVS refill; multi-pharmacy pattern continues
03/05/2024	chronology	inpatient encounter	True hospitalization admit/LOS/procedure/discharge
03/11/2024	chronology	Chronology event	Delayed neuro consult (~7 weeks after paresthesias)
03/15/2024	chronology	Chronology event	Electrodiagnostics supporting CTS
03/18/2024	chronology	Chronology event	Hip MRI dated after shoulder saga (chronology ordering stress)
03/20/2024	chronology	Chronology event	Gabapentin start; return to CVS #4821
04/05/2024	chronology	Chronology event	PT plateau language for MMI/RTW
04/10/2024	chronology	Orthopedic MMI / RTW Summary	MMI reached; return to work; demand/damages facts

Risk Score

High Score: 52.5/100

What 0–100 means: Low (0–24) = limited case concern on this record; Moderate (25–49) = some concerning patterns worth review; High (50–74) = elevated case concern for attorney/clinical review; Critical (75–100) = multiple severe drivers stacked. This score is a litigation-review aid from documented chronology signals — not a medical diagnosis or prognosis. This case scored 52.5/100 (High). High 52.5/100 means elevated case concern for attorney/clinical review of the chronology — not a medical diagnosis. How this score was built: Peak event severity 4.5/10 → +31.5; High-severity emergency/urgent encounters ×2 → +6.0; Missed/delayed-care signals ×11 → +15.0

Score 52.5/100. Computed by the shared deterministic scorer. Key drivers: Peak event severity 4.5/10 → +31.5; High-severity emergency/urgent encounters ×2 → +6.0; Missed/delayed-care signals ×11 → +15.0

QUALITY ASSURANCE: WARN — PROVISIONAL

RITA V1.3.1 - (Provisional) · Protocol v1.3.1 · Generated 2026-08-02T 17:52:34+00:00

QA checks flagged 1 issue(s), or billing QA is provisional. Review before relying on this report in litigation deliverables.

- Chronology settlement / case QA requires attorney review — banner cannot be VERIFIED
- 29 advisory QA signal(s) require attorney review
- Billing Analysis QA gate status=warn. Closing banner must remain provisional — not VERIFIED
- Pod billing: upstream billing qa gate=warn. Certification cannot be VERIFIED

Repair from source pages

Re-syncs encounter dates and Tier 1 fields from OCR/chronology, then refreshes this report.

Pod billing+chronology · ledger sha256:a25623db · quality=provisional · qa_gate=warn