

# Unified Predictive Risk and Quality Management for Hospitals

# Risk and Quality have Synergies...

## Quality Program Impact

Quality + CMS Star Rating Impact

Quality Impact

Non-Quality / Only Risk Impact

### INCIDENT FORMS

Infection

Surgery /  
Procedure

Lab / Specimen

Blood Product

Healthcare IT

Employee  
Event

Fall Injury

Maternal /  
Childbirth

Airway  
Management

Patient  
Protection

Equipment/  
Medical Device

Facilities

Diagnosis /  
Treatment

Diagnostic  
Imaging

Tube / Drain

IV/ Vascular  
Access Device

Safety /  
Security

Professional  
Conduct

Medication /  
Fluid

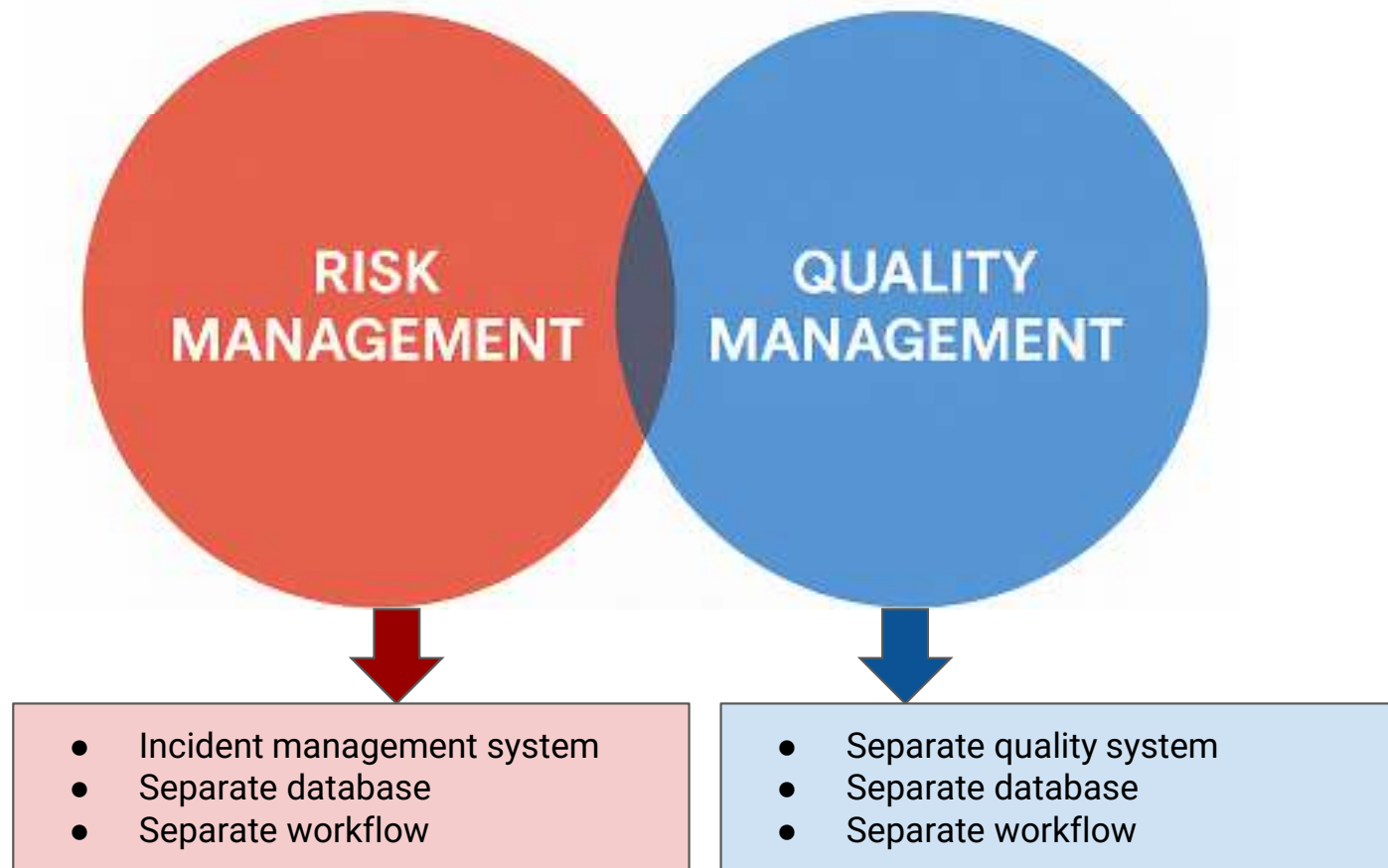
Skin Tissue

Patient  
Compliments

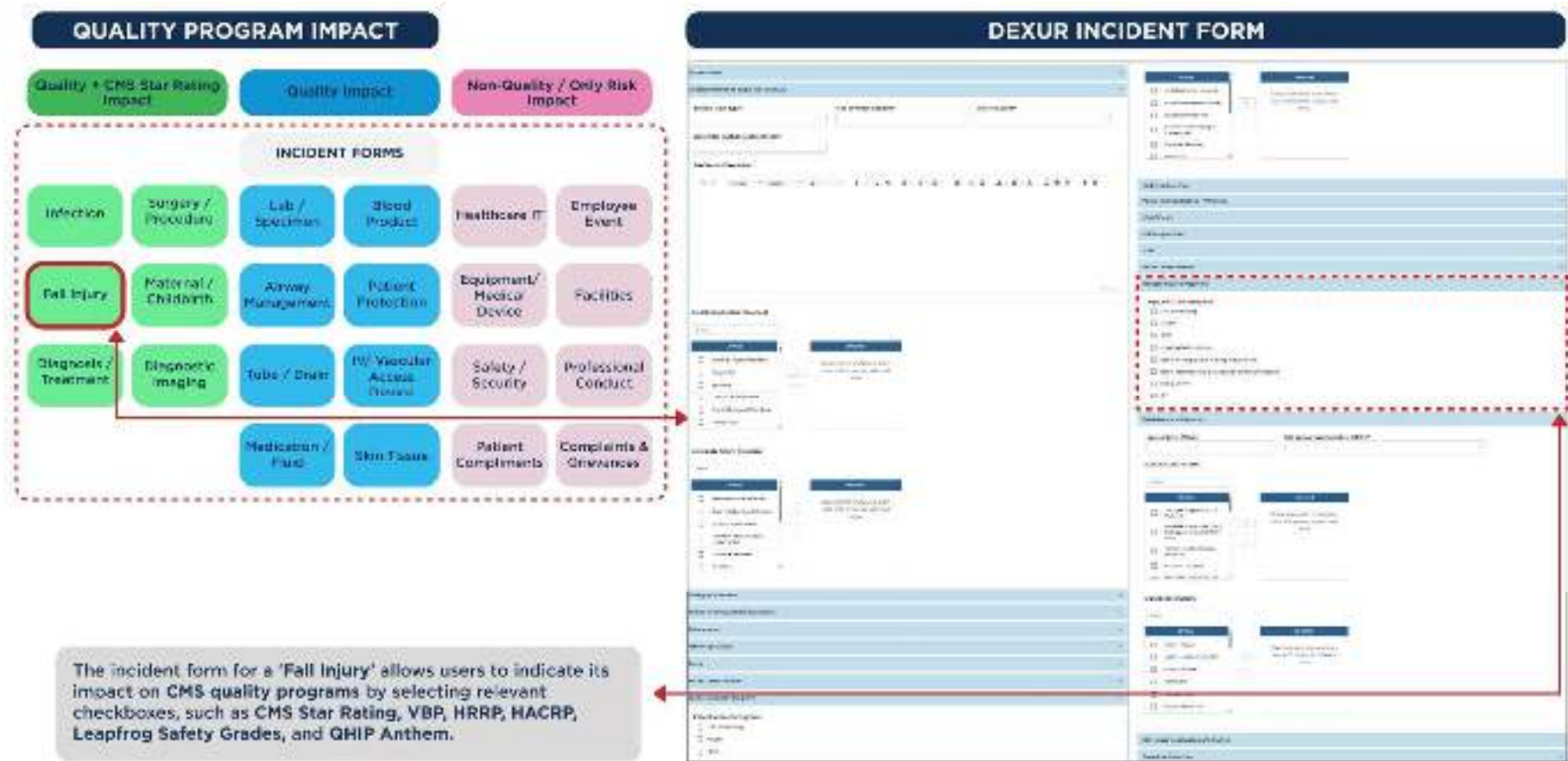
Complaints &  
Grievances

**But, have not realized synergies because of separate infrastructure...**

## **Disparate Systems in Hospitals**



# Dexur unifies quality, safety and risk in one platform...



## ...that is also predictive

### Why Predictive is Critical

- **Under-reporting problem (30–50% gap)**
  - Dexur's analysis shows that 30–50% of quality-oriented risk events (LAMA, HAIs, Falls, etc.) are not being recorded when reconciled with source systems like Claims, EHR, NHSN.
  - This creates blind spots in risk & quality programs.
- **Manual burden → low compliance**
  - Users must manually remember to report incidents.
  - Forms are lengthy, time-consuming, and frustrating.
  - Leads to missed events and fragmented records.
- **Delayed detection and response**
  - Even when incidents are recorded, data is retrospective.
  - Leaders only act after adverse events or compliance failures.
- **Regulatory, compliance and financial exposure**
  - Hospitals risk compliance and liability issues.
  - Missed events miss valuable quality improvement opportunities

Dexur leverages data from Claims, EHR, NHSN, and other source systems to automatically surface likely risk and quality events that are often under-reported in manual systems. By proactively identifying these incidents, hospitals gain more complete visibility, improve compliance, and can take earlier action to reduce adverse events, liability, and financial penalties.

#### 5. Predictive Risk Incidents

##### 5.1 Left Against Medical Advice (LAMA)

Dexur uses claims data to retrospectively flag patients who likely left the hospital against medical advice (LAMA), even when these events are not documented in risk or incident management systems. Identifying such undocumented cases helps improve liability tracking and risk management, given the elevated mortality, readmission risk, and potential legal exposure associated with LAMA events.

##### 5.2 Falls

By combining EHR and claims data, Dexur identifies likely in-hospital falls that may not have been formally reported in risk management systems. These unrecorded incidents have direct implications for patient safety, quality ratings, and financial penalties. Early detection supports proactive liability management and regulatory compliance.

##### 5.3 Hospital-Acquired Infections (HAIs)

Dexur synthesizes data from NHSN, Infection Prevention (IP) systems, EHRs, and claims to detect potential HAIs—including CAUTI, CLABSI, and Surgical Site Infections—that may have occurred but remain unreported. Recognizing these incidents enhances infection control efforts and strengthens the hospital's risk and liability management practices.

# Game Changer 1: Dexur Integrates Predictions Lists Into Incident Management Workflows

5. Predictive Risk Incidents

Prediction Risk Lists

Left Against Medical Advice (LAMA)  
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Left Against Medical Advice

Patient Info

Predicted Risk Events

Record ID	Record Source	Index Encounter	Patient First Name (Index Encounter)	Patient Middle Name (Index Encounter)	Patient Last Name (Index Encounter)	HAR/Patient Account Number (Index Encounter)	MRN # (Index Encounter)
787237677	Demo	55645758	Victor	Kenneth	Brown	26704700	MRN20009
787237618	Demo	558349089	Mark	Dennis	Jonas	33277422	MRN20010
787237665	Demo	556340460	Stephanie		Taylor	58100705	MRN20076
787237689	Demo	58544481	Gary	John for	Brooks	40255418	MRN20054
787237660	Demo	556348385	Margaret	Jeffrey	Brown	10000048	MRN20045

Events

Risk/Incident Form

Risk issue analysis

Inadequate staffing or Resource Allocation

☐ Insufficient staff during peak hours or in high-risk units.  
☐ No backup staffing plans for unexpected surges in patient volume.  
☐ Poor resource distribution leading to patient dissatisfaction due to long wait times or lack of attention.

Lack of staff training on Handling AMA situations

☐ Inadequate training in patient-centered communication to effectively explain medical risks of leaving.  
☐ No formal training on legal and ethical aspects of handling AMA incidents.  
☐ Staff untrained in de-escalation techniques for frustrated or anxious patients.

Poor Communication between Departments

☐ Fragmented or missing updates on patient status, resulting in unresolved patient concerns.  
☐ Inefficient handovers between medical teams, leading to miscommunication regarding patient treatment plans.  
☐ Lack of timely communication between clinical and administrative departments (e.g., finance, social work).



## Game Changer 2: Deploy Predictions Instantly with No-Code

Hospitals can't wait on long IT or data science cycles. Dexur lets teams rapidly deploy prediction models using simple, no-code visual prediction lists

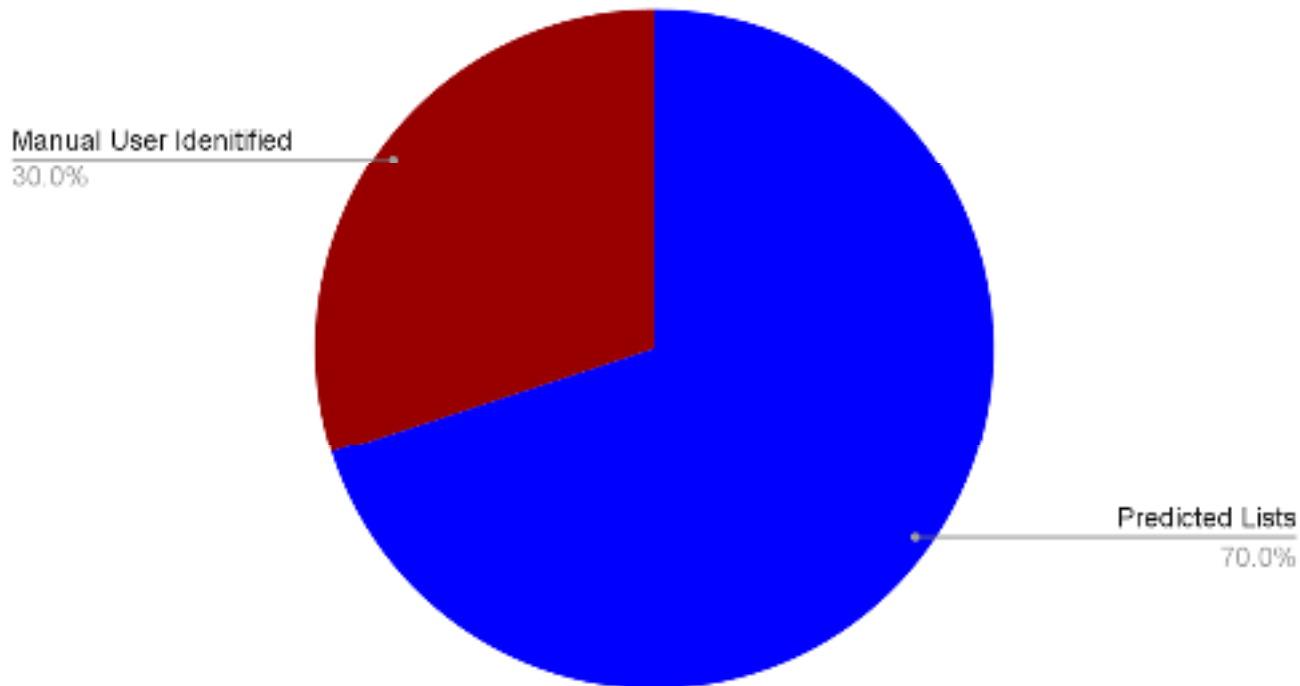
The screenshot displays the Dexur interface. At the top, there are buttons for 'CREATE LIST' and 'CREATE VIEW'. A red dashed box highlights the text: 'Dexur allows anyone to visually code prediction lists and check for accuracy'. Below this is a table with columns: Record ID, Form Name, Record Added Date, Record source, Hospital name, and Nurse name. The table contains 15 rows of data. A modal window is open on the right, showing a visual coding interface for creating a prediction list. It includes fields for 'Field', 'Operator', and 'Value', with buttons for 'ADD FILTER', 'ADD GROUP', and 'DELETE'. The modal also has 'CANCEL' and 'APPLY' buttons at the bottom.

Record ID	Form Name	Record Added Date	Record source	Hospital name	Nurse name
506405897	Encounters Page Layout	Mar 17 2025, 10:11 AM EST	Demo		
506405843	Encounters Page Layout	Mar 17 2025, 10:11 AM EST	Demo		
506405800	Encounters Page Layout	Mar 17 2025, 10:11 AM EST	Demo		
506405792	Encounters Page Layout	Mar 17 2025, 10:11 AM EST	Demo		
506405781	Encounters Page Layout	Mar 17 2025, 10:11 AM EST	Demo		
506405768	Encounters Page Layout	Mar 17 2025, 10:11 AM EST	Demo		
506405754	Encounters Page Layout	Mar 17 2025, 10:11 AM EST	Demo		
506405745	Encounters Page Layout	Mar 17 2025, 10:11 AM EST	Demo		
506405744	Encounters Page Layout	Mar 17 2025, 10:11 AM EST	Demo		
506405720	Encounters Page Layout	Mar 17 2025, 10:11 AM EST	Demo		
506405720	Encounters Page Layout	Mar 17 2025, 10:11 AM EST	Demo		
506405658	Encounters Page Layout	Mar 17 2025, 10:11 AM EST	Demo		
506405659	Encounters Page Layout	Mar 17 2025, 10:11 AM EST	Demo		

## Game Changer 3: Real Time Prediction Accuracy Monitoring and Tuning

If you can't measure accuracy in real time, you can't trust your predictions. Dexur monitors predictive risk outcomes and shows how many risk events were suggested by Dexur compared to manual user identified risks

Share of Incidents from Predictions Vs Manual User Identified





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