



# RISK STRATIFICATION

PCCI helps you manage risk for population health, outpatient care, and acute care as well as across the care continuum.

PCCI has automated tools to help you manage risks across your patient populations. PCCI's multiple peer reviewed e-Models identify and stratify readmission risks, clinical and social risks, and risks of patients developing chronic diseases. We believe that pinpointing low risk populations is equally important to identifying high risk populations for effective allocation of resources.

## Our Risk Stratification e-Models & Solutions



### ACCELERATED CHRONIC KIDNEY DISEASE (CKD) PROGRESSION

A model for early identification of patients at high risk for deterioration of kidney function.



### ACUTE MYOCARDIAL INFARCTION

Using novel natural language techniques, this model identifies patients who are likely to be coded as having had AMI then uses a clinical algorithm to risk stratify these patients according to their likelihood of being readmitted. This tool can be used to intervene on patients to reduce their risk for readmission.



### ALL CAUSE

Using novel natural language techniques, this model identifies all patients according to their readmission risk. This tool can be used to intervene on patients to reduce their risk for readmission..

readmission.



### ASTHMA UTILIZATION

A model that identifies patients at high risk for a hospital visit for an asthma related illness.



### CHRONIC KIDNEY DISEASE (CKD)

Real-time monitoring for identification of risk of rapid CKD progression. This model also identifies undiagnosed CKD patients and stratifies patients according to their risk for developing CKD.



### CONGESTIVE HEART FAILURE (CHF)

Using novel natural language techniques, this model identifies patients who are likely to be coded as having had CHF then uses a clinical algorithm to risk stratify those patients according to their likelihood of being readmitted. This tool can be used to intervene on patients to reduce their risk for readmission.



### OUT OF ICU

Identification of patients at high risk for imminent ICU transfer, cardiopulmonary arrest, or death. This provides early notification to rapid response teams, so they can intervene before a patient deteriorates.



### PNEUMONIA (PNA)

Using novel natural language techniques, this model identifies patients who are likely to be coded as having had PNA then uses a clinical algorithm to risk stratify those patients according to their likelihood of being readmitted. This tool can be used to intervene on patients to reduce their risk for readmission.



### SEPSIS

Early identification of patients who have developed or are developing sepsis, which allows for more timely administration of antibiotics.



## Our Risk Stratification News & Research

[ALL NEWS & RESEARCH](#) >



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All

Blog

News

Publications

Videos

### University Health System to Implement PCCI's Pieces™ ...

Press Release

analytics, care coordination, Collaborate, dallas, E-Model, e...  
1 year ago

### PCCI Publishes Three Articles in Health Affairs July Them...

Press Release

analytics, bigdata, Collaborate, dallas, Data, electronic med...  
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### Using Big Data to Target Preventable Readmissions?

Modern Healthcare

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### Dallas Researchers Could Change the Way Physicians Use

D Healthcare Daily

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### Parkland to Build Unprecedented

### Children's Medical, Parkland

### Children's Medical Center

### PCCI Launch Video

### Parkland to Build Unprecedented Health Information Exchan...

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### Children's Medical, Parkland Affiliate Collaborate ...

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### Children's Medical Center and PCCI Collaborating on Two...

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### PCCI Launch Video

With the launch of PCCI as a non-profit affilia...

Collaborate, Donate, Extended Care Continuum, Monitoring, New-...  
2 years ago

### Decreasing readmissions: it can be done but one size does...

### PCCI Announces the Official Launch of the Pieces™ System...

Press Release

### EMRs shown to reduce heart failure readmissions

### Study published in the British Medical Journal Quality &#...

Press Release

We are always looking for new ways to improve the world of healthcare.

We look forward to hearing from you today.


[CONTACT PCCI](#)

PCCI develops solutions to solve healthcare's greatest challenges.

We welcome scientific collaboration toward predicting and preventing medical risks.

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<b>WHY PCCI</b>	<b>SOLUTIONS</b>	<b>RESEARCH</b>	<b>MEDIA</b>	<b>CAREERS</b>	<b>CONTRIBUTE</b>
<a href="#">why pcci</a>	<a href="#">pieces software</a>	<a href="#">research overview</a>	<a href="#">all posts</a>		<a href="#">donate</a>
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	<a href="#">extended care continuum</a>				

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# PIECES SOFTWARE

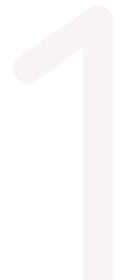
## The Future Is Now.

In the future, a patient is admitted to the hospital. Based on his clinical information, the Pieces™ software system predicts that this patient will suffer cardiopulmonary arrest within the next 16 hours. By the time he arrives at his room a Rapid Response Team has already been deployed. The system reads physicians' notes and identifies another patient at high risk of readmission to the hospital for congestive heart failure. Case managers intervene before the patient is discharged from the hospital and follow up on his care over the next 30 days. Pieces™ can predict what is going to happen to a patient and help prevent it from happening.



SCROLL TO SEE HOW  
PIECES™ WORKS

**This is the future of healthcare. The future is now.**

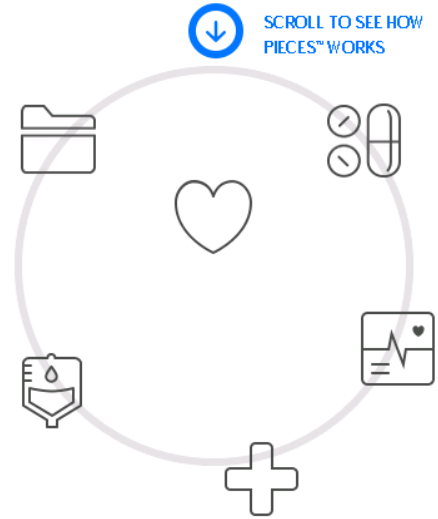


## This is your data.

Your data, used to influence patient treatment and hospital procedures, is critical to how well your systems function in today's complex world. However, this data that is rich with vital information is scattered all over the place and is often underutilized.

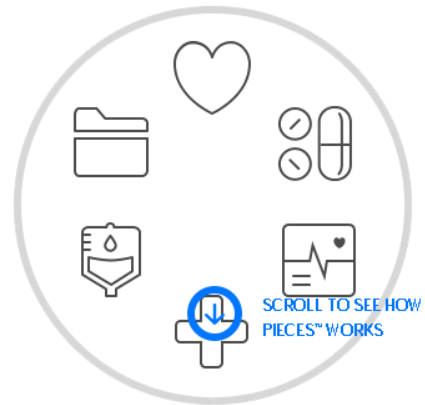


We gather all of your data in the Pieces™ software platform.



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By integrating all of your existing information into the Pieces™ platform, your data can be used more effectively to help patients receive better care. This data provides a framework for real-time decision making.

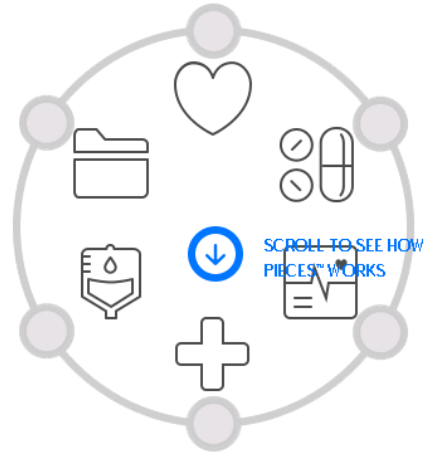


## Then we plug in established e-Models.

e-Models are complex algorithms dependent on several variables that automate and predict expected outcomes for patients. Utilizing this data can help determine appropriate treatment, adverse clinical events, and even clinical and operational action plans for individual patient and population levels.



START USING PIECES™ SOFTWARE NOW



## Healthcare Solutions from PCCI



RISK STRATIFICATION



MONITORING



OPERATIONS



### RISK STRATIFICATION

PCCI has multiple tools to help you manage risk across all of your patient populations. Our peer reviewed e-Models identify and stratify risks of adverse clinical events.

[LEARN MORE](#)



### MONITORING

PCCI monitors data for all hospital patients to predict adverse clinical events such as risk for cardiopulmonary arrest, sepsis, and rapid CKD progression.

[LEARN MORE](#)



### OPERATIONS

We measure intervention effectiveness, efficiency, and outcomes, delivering metrics and reporting that provide critical insight to deploy people and resources most effectively.

[LEARN MORE](#)



### READMISSIONS & CARE COORDINATION

Our scalable, real-time solutions to the difficult problem of high readmission rates have helped hospitals significantly reduce

Our scalable, real-time solutions to the difficult problem of high readmission rates have helped hospitals significantly reduce their readmission rates for CHF.

[LEARN MORE](#)



### PATIENT SAFETY & QUALITY MEASUREMENT

Our software tools identify adverse events in real-time to improve patient safety and quality of care. We electronically capture

Our software tools identify adverse events in real-time to improve patient safety and quality of care. We electronically capture NQF endorsed quality metrics or custom metrics in an easy to consume dashboard.

[LEARN MORE](#)



### EXTENDED CARE CONTINUUM

PCCI can monitor patient conditions from personal fitness and wireless measurement devices. We evaluate population health

PCCI can monitor patient conditions from personal fitness and wireless measurement devices. We evaluate population health statistics for payers and have analytics to improve care across large patient populations.

[LEARN MORE](#)

We are always looking for new ways to improve the world of healthcare.

PCCI develops solutions to solve healthcare's greatest challenges.





# INFORMATION EXCHANGE PORTAL

## PCCI Receives Visionary Grant to Build Intelligent Social-Health Information Exchange

### What is the IEP?

Different providers in the healthcare system and across community-based organizations have limited means of communication, causing vital patient information to slip through the cracks – information that is essential to providing excellent healthcare or even saving a life. The Dallas

Different providers in the healthcare system and across community-based organizations have limited means of communication, causing vital patient information to slip through the cracks, information that is essential to providing excellent healthcare or even saving a life. The Dallas Information Exchange Portal (IEP) will create a secure seamless system that connects healthcare and community-based organizations in the Dallas-Fort Worth region, allowing for smart sharing of information that makes a tangible difference in the lives of first thousands but, ultimately, we hope millions of people.

### Why are we creating it?

Integrating information from social and healthcare organizations will provide quality and safe healthcare for the broadest range of citizens in our community. The IEP will provide a higher, more consistent level of healthcare to even the most vulnerable populations across the community, resulting in a more efficient, cost-effective use of resources and, most importantly, lives saved.

[LEARN MORE](#) >



# MONITORING

Innumerable pieces of data flow into an EMR daily. Keeping track of the most relevant information can be a daunting task.

Monitoring software solutions are of increasing importance in healthcare settings. The Pieces™ software system mines the electronic medical record in real-time, allowing us to monitor all hospital patients for adverse clinical events. We can identify patients at risk for

Monitoring software solutions are of increasing importance in healthcare settings. The Pieces™ software system mines the electronic medical record in real-time, allowing us to monitor all hospital patients for adverse clinical events. We can identify patients at risk for cardiopulmonary arrest within the hospital up to 6 hours sooner than the institutional Rapid Response Team. Our sepsis model can help patients get antibiotics sooner, increasing their chances for survival.

## Our Monitoring e-Models & Solutions



### ALL CAUSE

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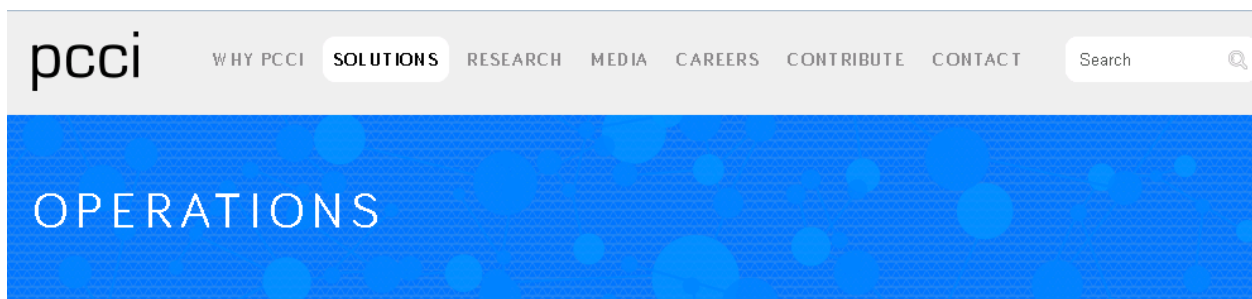


### RISK SURVEILLANCE

Automated detection of patient safety events, using natural language processing and structured data, allowing for real-time alerts and reporting regarding patient safety events.

## Monitoring News & Research

[ALL NEWS & RESEARCH](#) >



**PCCI helps determine the most effective interventions to deliver the best outcomes given current staffing and financial constraints.**

PCCI measures intervention effectiveness, efficiency, and outcomes, delivering metrics and reporting that provide critical insight to deploy people and resources most effectively to provide the most beneficial outcomes for the patients you care for. We focus on the quality as well as the total cost of care and utilize best practice workflows and techniques by keeping current on the latest published literature for the care challenges we tackle.

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## Our Operations e-Models & Solutions



### ALL CAUSE

Using novel natural language techniques, this model identifies all patients according to their readmission risk. This tool can be used to intervene on patients to reduce their risk for readmission.



### ADMISSION MODEL

Identification of the number of patients in the emergency department likely to be admitted to the hospital. This would allow for improved bed flow management.



### OUT OF ICU

Identification of patients at high risk for imminent ICU transfer, cardiopulmonary arrest, or death. This provides early notification to rapid response teams, so they can intervene before a patient deteriorates.

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PATIENT SAFETY & QUALITY MEASUREMENT

## PCCI's software tools identify adverse events in real-time to improve patient safety and quality of care.

Quality metrics play a vital role in healthcare today and have been integrated into many recent government initiatives including Meaningful Use, ACOs, and PCMH initiatives. Most quality measurement in healthcare settings is performed manually. We electronically capture NQF endorsed quality metrics or custom metrics in an easy to consume dashboard. These advances allow for benchmarking within and across institutions.

## Our Patient Safety & Quality Measurement e-Models &



# WHY PCCI

## THE PCCI MISSION

To help save a life.

## THE PCCI VISION

To deploy predictive and surveillance solutions around the world that make healthcare safer, simpler, and less stressful.

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PCCI is a non-profit research and development corporation in Dallas, Texas that specializes in real-time predictive and surveillance analytics for healthcare. Our software interprets EMR data in real-time, transforming them into useful intervention warning tools that assist physicians and hospitals on complex clinical decisions in every field of medicine. We are now expanding these technologies for all conditions and for the benefit of patients in hospitals throughout the world.

## Our Success Stories

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Publications



Videos

PCCI + MDHA  
Announce  
Partnership

Press Release

In Dallas,  
Partnering with  
Social Services  
on Holistic Vi...

Landers:  
Data-driven  
Predictions for  
Better, Less

Dallas  
Researchers  
Could Change  
the Way

Are you a physician, statistician,  
or computer scientist? Join PCCI  
now.

We are always looking for talented and passionate individuals.  
Join our team.

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PCCI develops solutions to solve  
healthcare's greatest challenges.

We welcome scientific collaboration toward predicting and  
preventing medical risks.

[COLLABORATE NOW](#)