

# AviCenna JCI Software Platform



AVICENNA JCI

# AGENDA

- ◉ General Properties of Avicenna JCI
- ◉ Particles of Avicenna JCI Platform
- ◉ Details of Modules
- ◉ Questions

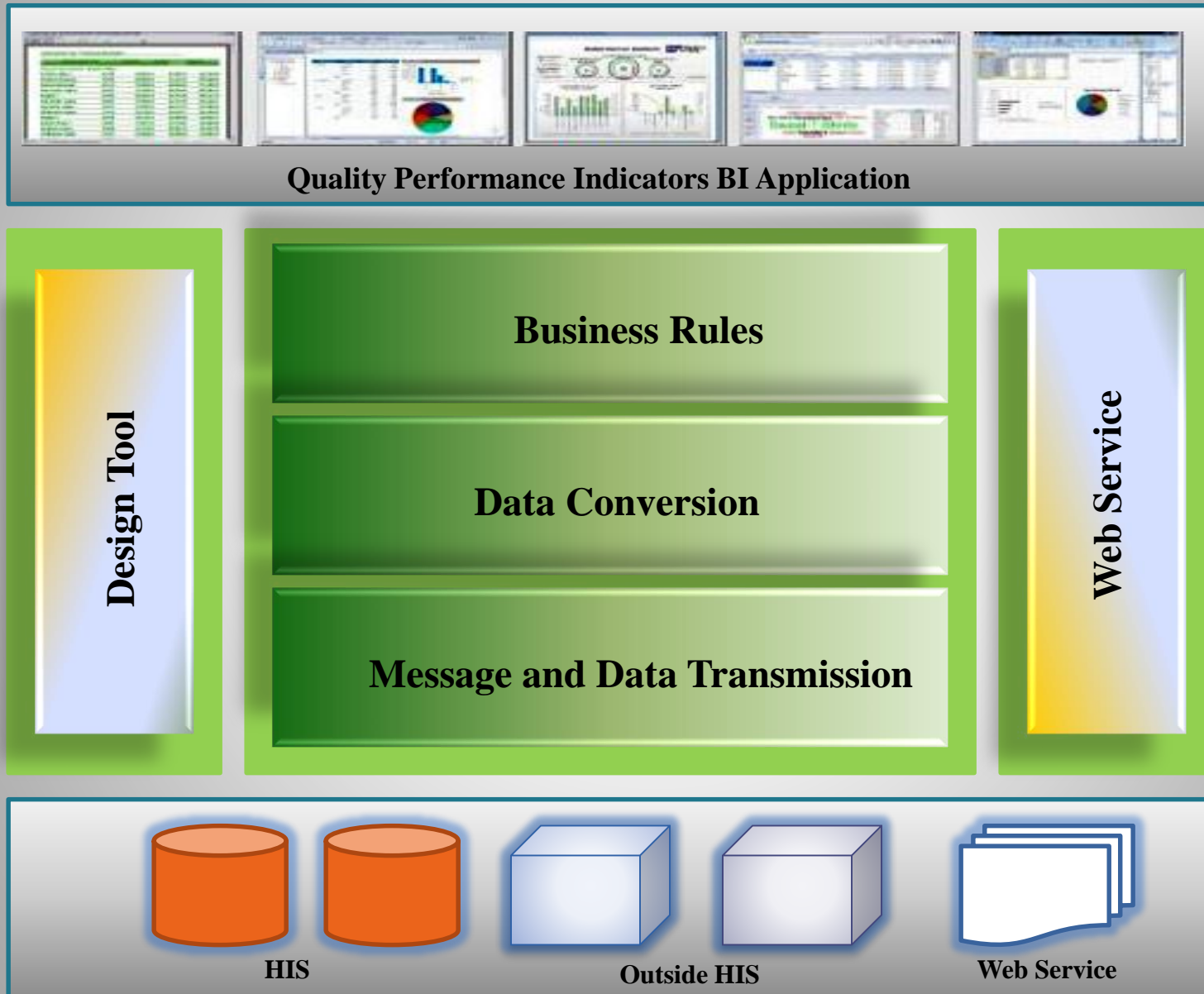
# General Properties

- Web Based TURNA Platform
- Data infrastructure is prepared according to ISO/IEC 11179-4
- Data and report dictionary is prepared for all KPI's
- Additional KPI applications is developed for outside the scope of the HIS
- Application supports business rules and metadata management
- Data communication between applications is done with web services

# Software Modules and Applications

- Dictionary of Data and Report Identification
- SKRS (Code Reference System)
- Case Notification Module
- Risk Notification Module
- Survey Module
- KPI Manual Data Input Module
- Business Intelligence Application

# General Overview



# Data and Report Dictionary

- Identification of data elements and their features

Avicenna Joint Commission International Accreditation Platform

KPI Editor ▾ Definitions ▾ Event State ▾ Risk Management ▾ JCI Management Systems ▾ Survey Management ▾ Logout

Data Element

Data Element No	Name
56	Ameliyat Raporu Onay Zamanı
79	Cerrahi Enfeksiyon
26	Acil Servis Kabul Zamanı
27	Acil Servis Taburcu Zamanı
106	Hemodiyaliz Seans Zamanı
107	Hemodiyaliz Seans Durumu
108	Hemodiyaliz Cihaz Kodu
67	Geldiği Poliklinik
76	Randevu Zamanı
91	Hasta Dosyası Kayıt Zamanı
12	Taburcu Zamanı
97	Ölüm Tarihi
98	Konsültasyon İstem Zamanı
99	Konsültasyon Kabul Zamanı
7	Taburcu Tarihi
8	Taburcu Durum
24	Ameliyat Bitiş Zamanı
23	Ameliyat Başlama Zamanı
109	Ameliyat Randevu Zamanı
110	Ameliyat Randevu Durumu
95	İlaç İstem Zamanı
96	İlaç İstem Servis Kabul Zamanı

**Data Element**

Name: Ameliyat Raporu Onay Zamanı

Data Element No: 56

Version:

Created Date: 01.05.2010

Version Date: 01.05.2010

Source Organization: The Joint Commission

Registration Authority: JCAHO

Administrative Status: Kullanımda

Data Element Type: TarihSaat

Metadata Type: Veri Elemanı

Field Size:

System Code:

Format:

Source Documents:

Description:

AVICENNA JCI

# SKRS and Application Definitions

- Preparation of standart codes of data elements
- Meta Data Definitions
- Determination of general parameters and user methods.
- Determination of Case Notification, Risk and Survey modules' definitions.



# Case Notification Module

- Notification of the case and complaint
- Evolution of the case and complaint and recording solutions

KPI Editor Tanımlamalar Durum Risk Yönetimi JCI Yönetim Sistemi Anket Yönetimi Logout

Olaya Maruz Kalan: [ ] [ ] [ ]  
Olay Kategorisi: [ ]

Olay Bildirim Giriş

**Cerrahi ve Bakım Süreci Hataları**

- ☐ Kimlik Bandının Olmaması
- ☐ Kimlik Bandında Yanlış Bilgi
- ☐ Yanlış Hastaya İşlem Yapılması
- ☐ Planlanan İşlemin Yapılamaması
- ☐ İşlemin Geç Yapılması
- ☐ İşlemin Yanlış Yapılması
- ☐ İşlem Sonrası Komplikasyon
- ☐ Hatalı Tüp/Katater/Dren Çıkması
- ☐ Etiketlenmemiş Örnek/Test
- ☐ Yanlış Etiketlenmiş Örnek/Test
- ☐ Yanlış Yöntemle Alınmış Örnek
- ☐ KAYIP Örnek
- ☐ Kan Transfüzyon Hatası
- ☐ Yanık
- ☐ Yanlış alan Cerrahisi
- ☐ Ameliyathane-Beklenmeyen Dönüş
- ☐ Yoğun Bakım-Beklenmeyen Dönüş
- ☐ Acil Servis-Beklenmeyen Dönüş
- ☐ Uygun Olmayan İzolasyon Önlemleri
- ☐ İşlem Öncesi Hazırlık Hatası

**Çevresel Olaylar**

- ☐ Yangın-Patlama
- ☐ Su-Gaz-Sızıntı
- ☐ Haşere-Hayvan Olayları
- ☐ Kilitli -Kapalı Kalma
- ☐ Radyasyona Maruz Kalma
- ☐ Enfeksiyonlu Atığa Maruz Kalma
- ☐ Kimyasal Madde Bulaşması
- ☐ Elektrik Kaçağına Maruz Kalma
- Düşme**
- ☐ Muayene Masasında Düşme
- ☐ Sedyeden Düşme
- ☐ Taşıma Esnasında Düşme
- ☐ Yataktan Düşme
- ☐ Banyoda Düşme
- ☐ Kısıtlamadan Kurtularak Düşme
- ☐ Takılma
- ☐ Bayılma
- ☐ Kayma
- ☐ Yerde Bulundu

**Adli Sayılabilecek Olaylar**

- ☐ İntihar
- ☐ Kendine Zarar Verme
- ☐ Taciz-Suistimal
- ☐ Hasta-Bebek Kaçırılması
- ☐ Kavga-Dayak
- ☐ Hırsızlık-Gasp

**Tıbbi Cihaz Bağlantılı Olaylar**

- ☐ Cihazın Çalışmaması
- ☐ Cihazın Olmaması
- ☐ Cihazın Yanlış Çalışması
- ☐ Cihazda Elektrik Kaçağı
- ☐ Cihaza Bağlı Yanma-Yaralanma
- ☐ Kullanım Talimatlarına Uymama

**Tıbbi Malzeme Bağlantılı Olaylar**

- ☐ Kontamine Malzeme
- ☐ Medikal Malzeme Bulunmaması
- ☐ Steril Malzeme Paketinde Hasar
- ☐ Setlerde Malzeme Eksiği



# Risk Notification Module

- Risk Plans
- Improvement Plans
- Planned work is delivered in person and teams
- Cost tracking and monitoring processes

# Survey Module

- Determination of all surveys in the organization
- Determination of periods of surveys' publication
- Evolution of Survey Results

# KPI Input Module

## ● KPI data elements input

Avicenna Joint Commission International Accreditation Platform

KPI Editor ▾ Definitions ▾ Event State ▾ Risk Management ▾ JCI Management Systems ▾ Survey Management ▾ Logout

**Join  
INT**

ACB-Anesthesia And Surgical Care ▸  
AMI-Acute Myocardial Infarction ▸  
BY-Communication And Information System ▸  
CAC-Relievers for Inpatient Asthma ▸  
EKO-Preventionand Control of Infections ▸  
HAH-Patient and Family Rights ▸  
HB-Patient Care ▸  
HBIPS-Inpatient Psychiatric Care ▸  
HD-Patient Evaluation ▸  
HF-Heart Failure ▸  
IYK-Medication Management and Usage ▸  
KIG-Quality Improvement and Patient Safety ▸  
NSC-Nursing Care ▸  
OP-Outpatient Quality Measures ▸  
PATH ▸  
PC-Perinatal Care ▸  
PN-Lung Diseases ▸  
SCIP-Surgical Issue Development ▸  
STK-Inpatient Stroke Care ▸  
VTE-Venous Thromboembolism ▸

ACB-1 Reoperation 24 Hours  
ACB-2 Operation Due To Complication  
ACB-3 Post-Op Not Written The Note Rate Of Patients Operated On Within 24 Hours  
ACB-4 Preoperative Diagnosis Entering Rate  
ACB-5 Surgical Attempt Faults  
ACB-6 Surgical Wound Infection Rate  
ACB-7 Harmonic Diagnosis After Before Surgery  
ACB-8 Surgical Mortality Rate  
ACB-9 Cardiac Arrest Rate  
ACB-10 During Anesthesia Death Rate  
ACB-11 Begin Late Operation Percent  
ACB-12 Cancelled Operation Rate  
ACB-13 Pre-Op Average Length of Stay  
ACB-14 Post-Op Average Length of Stay

# BI Module

- Monitoring data after filtering business rules and calculation report editor
- 19 KPIs Group Title
- 144 KPIs
- Mandatory +30 KPIs Set

# DataSel

BİLGİ SİSTEMLERİ

## JOINT COMMISSION INTERNATIONAL HEALTHCARE DASHBOARD

Apr 09, 2012

2008 2009 2010 2011 2012 2013 2014 2015 2016

Acute Myocardial Infarction

AMI

Anesthesia and Surgical Care

Communication and Information

Children's Asthma Care

Prevention and Control of Infect

Patient and Family Rights

Patient Care

Hospital-Based Inpatient Psychiatric Services

Patient Evaluation

Heart Failure

Medication Management and Use

Quality Improvement and Patient Safety

Nursing Care

Outpatient Quality Measures

Program for Appropriate Technology in Health

Perinatal Care

### Acute Myocardial Infraction (AMI)

Acute Myocardial Infraction (Ratio)

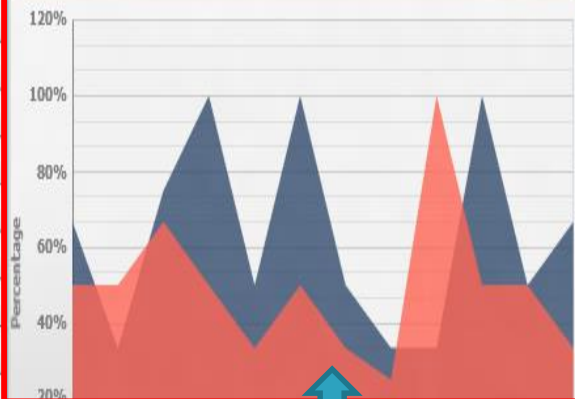
Acute Myocardial Infraction (Minutes)

Measure	Average	Ind
ACEI and ARB for LVSD	53.59%	●
Adult Smoking Cessation Advice/Counseling	44.04%	●
Aspirin Prescribed at Discharge	61.10%	●
Aspirin at Arrival	33.30%	●
Beta-Blocker Prescribed at Discharge	63.19%	●
Fibrinolytic Therapy Received Within 30 Minutes of Ho	52.08%	●
Inpatient Mortality	66.68%	●
LDL-Cholesterol Assessment	50.00%	●
Lipid-Lowering Therapy at Discharge	56.25%	●
Primary PCI Received Within 90 Minutes of Hosp	66.67%	●

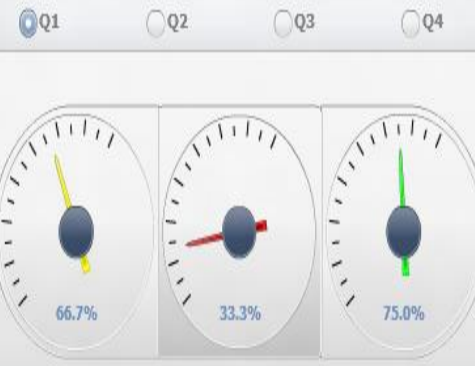
### Rolling 12 Months-Beta-Blocker Prescribed at Discharge



### Comparing With Previous Year



### Values By Quarters-Beta-Blocker Prescribed at



AVICENNA JCI

DataSel  
BİLGİ SİSTEMLERİ

***Thank you so much***

AVICENNA JCI