How do we get the data?

- Data Pull
- Data Push
- Hybrid (Pull & Push from different systems)

How is the data hosted?

- Client Hosted (Locally) - EMR Server is installed inside the practice or hospital and managed by the practice or hospital.
- Cloud Hosted - EMR Server is hosted and managed by the EMR company or third party.
Registry Practice Connector (Data Pull)

- EMR Server
- Structured Data
- Unstructured Data

Registry Connector (RPC/RSC)

The Registry

Other System(s)
- Billing Data (PM/RCM)
- Imaging Data (PACS)
- Lab Data (LIS)
Data Pull Integration

Provider

EMR, Claims, and/or Billing Database(s)

Authorized Practice User

Registry Practice Connector (RPC)

Practice/Site

Key managed by Encryption Service Provider

Practice Registry Dashboard

Data Marts

128 bit locker local/256 EBS Network drive encryption

Microsoft Transparent Data Encryption (TDE)

RQR

PQRS

Other

Clinic Data Repository (CDR)

Clinical Data Upload Server

PII Vault

Registry

Electronic Medical Record (EMR)

Data Upload Server

RPC Management Server

EMR Mapping Analyst

Clinical Data Repository (CDR)

Microsoft Transparent Data Encryption (TDE)

RQR

PQRS

Other

Port XXXX

256-bit Rijndael key (in transit)

https://Port 443

2048-bit RSA key (in transit)

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How do we get the data?

• Data Pull

• Data Push

• Hybrid (Pull & Push from different systems)
Data Push Integration

Practice/Site

Provider

EMR, Claims, and/or Billing Database(s)

Authorized Practice User

Participating Supplied Data Feed

SFTP Client

Key managed by Encryption Service Provider

Practice Registry Dashboard

Data Marts

128 bit locker local/256 EBS Network drive encryption

Microsoft Transparent Data Encryption (TDE)

RQR

PQRS

Other

Clinic Data Repository (CDR)

EMR Mapping Analyst

SFTP Server

Registry

Data Push Integration

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CDR Flow

• After extract file is uploaded on the server and the same data is moved to the cache tables i.e. cache problem

• Then cache processing stored procedure (SP) is used to process the cache tables which validates data and gives the status like 1= In Progress, 2=without error, 3=with error

• The data which is in status 2 moves in the CDR tables i.e. patients, patient problem

• Then SSIS is done to carry out the required data into the tbl-encounter and report is generated
How do we get the data?

• Data Pull

• Data Push

• Hybrid (Pull & Push from different systems)
Structured, Unstructured, & Scanned Documents

**Structured Data**
*(Discrete Fields)*
- Vitals
  - BP, BMI, Temp etc.
- Diagnosis codes
- Procedure codes

**Unstructured Data (Notes)**
- Dictation
- Notes section / plan section
- Free text

**Scanned documents/ Images**
- Cannot read these
  - PDF files
  - Lab reports
  - Imagining files

* If the file is a readable file, then we can possibly read and analyze it.
The three party review usually goes through several iterations of mapping refinements before the data is approved by the practice for accuracy.