CTS-IT Presents

HCV Target Sites Automation

Introductions



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A Brief History

HCV-TARGET is an international consortium of leading HCV investigators who have established a common research database and are conducting a longitudinal observational study to answer important questions about HCV therapy with direct acting antiviral agents. There are currently 54 sites enrolled for the HCV Target Study.

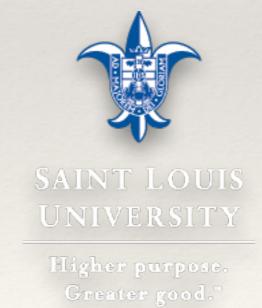
38 academic sites

15 community sites

RED-I Sites

Currently, the sites SLU, UPENN, UNMC, VCU, and UF are using the RED-I process to automate the inclusion of subject data into REDCap at UNC.











List of Target Sites

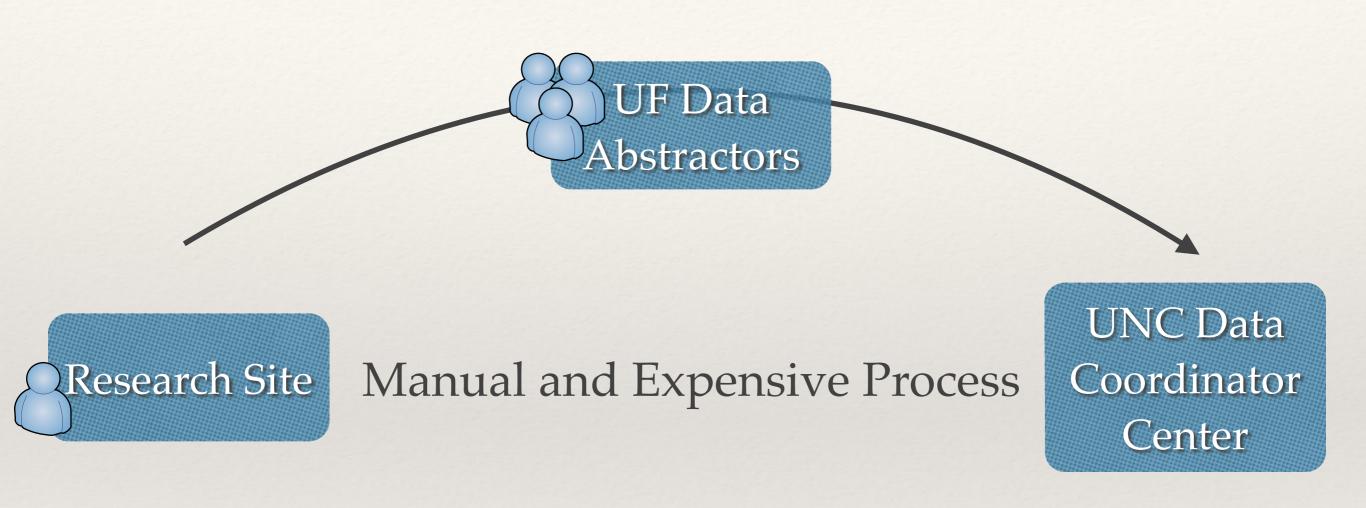
ST. LOUIS UNIV PENN, UNIV OF Florida, University of VA COMMONWEALTH UNIV (VCU) University of Nebraska YALE UNIVERSITY **UC-SAN DIEGO JOHNS HOPKINS** Baylor MAYO-Scottsdale UNC **SCRIPPS HEALTH** CINCINNATI, UNIV OF Columbia University **INDIANA UNIV CORNELL UNIV UC-SAN FRANCISCO** COLORADO, UNIV OF

Dartmouth-Dickson **DUKE UNIV** MICHIGAN, UNIV OF CHIGAGO, UNIV OF MINNESOTA, UNIV OF **EMORY UNIV** MASS, UNIV OF HARVARD (BETH ISRAEL) MIAMI, UNIV OF UNIV. of CA-Los Angeles (UCLA) MAYO-Rochester Research Specialists of Texas Liver Wellness University Health Network-Toronto

Hannover Medical School MetaClin Research, Inc. (Hannover, Germany) Benaroya Inst at VA Mason PUERTO RICO, UNIV OF Med Ctr Mountain View Medical Practice Northwestern University Orlando Immunology Center **ASHEVILLE GASTRO** Bon Secours St. Mary's Hospital of Richmond, Inc. Southwest CARE Center Atlanta Medical Center Hudson River HealthCare Lake Shore Gastroenterology & Liver Disease Inst Henry Ford Health System Metropolitan Research

(Austin Hepatitis Center) Trial Management Associates, LLC (Wilmington Gastro) Minnesota MARYLAND, **UNIV OF** Austin Hepatitis Center **INTEGRIS Baptist Medical** Center, Inc. Massachusetts General Hospital Geothe University Hospital-Frankfurt

Overview

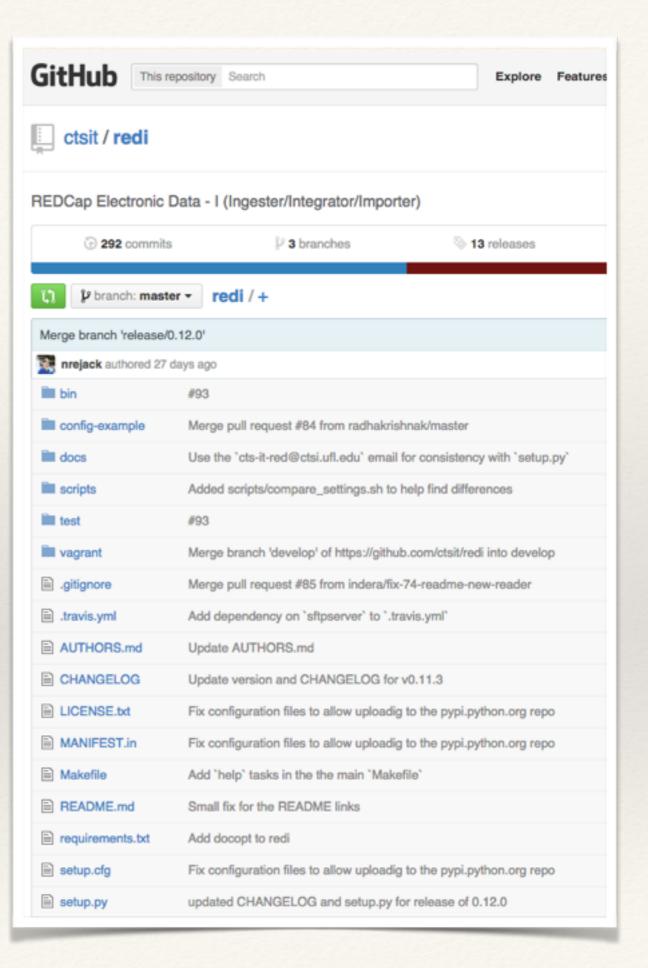


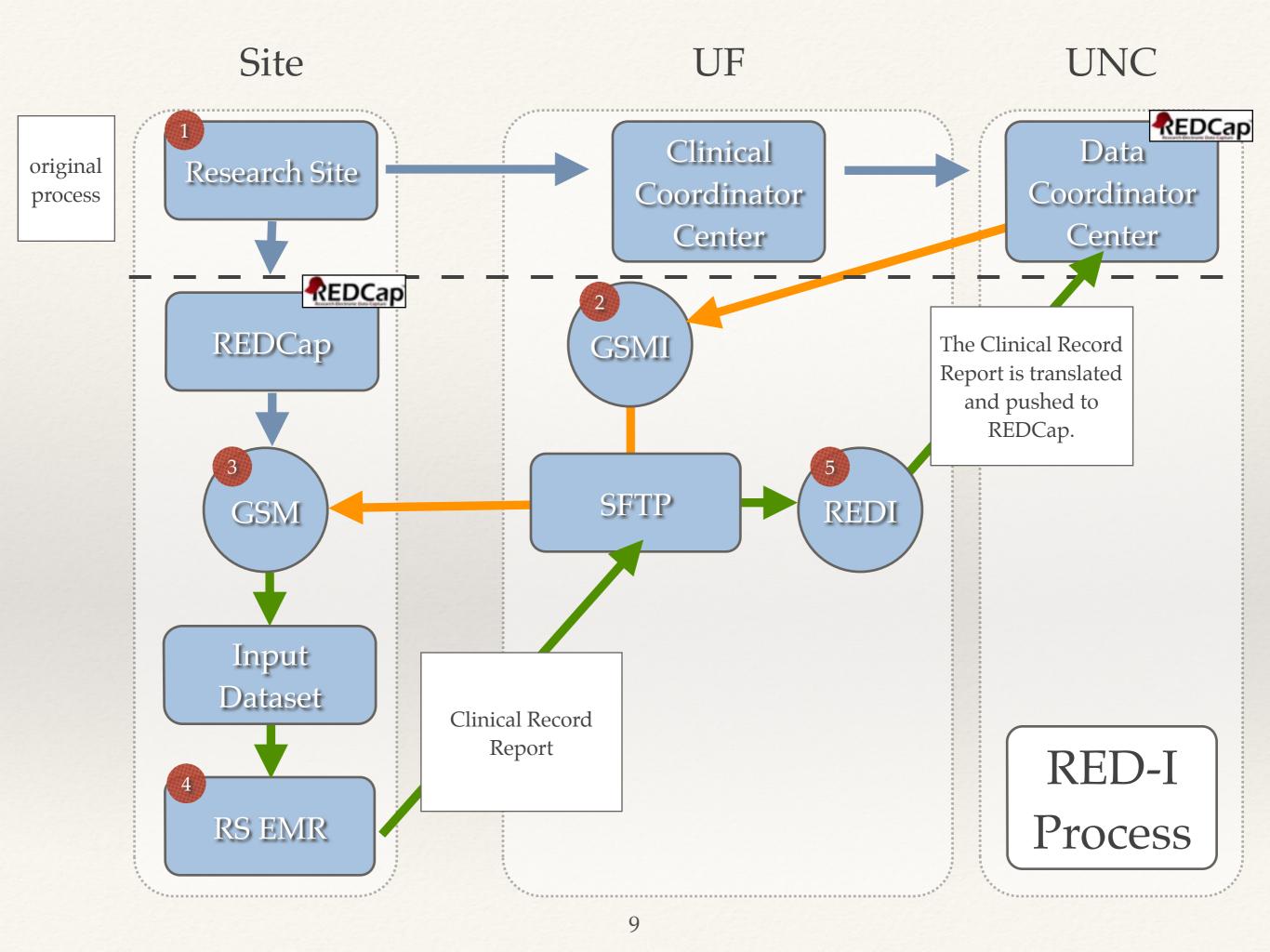
REDCap Electronic Data - I (Ingester/Integrator/Importer)

RED-I Software

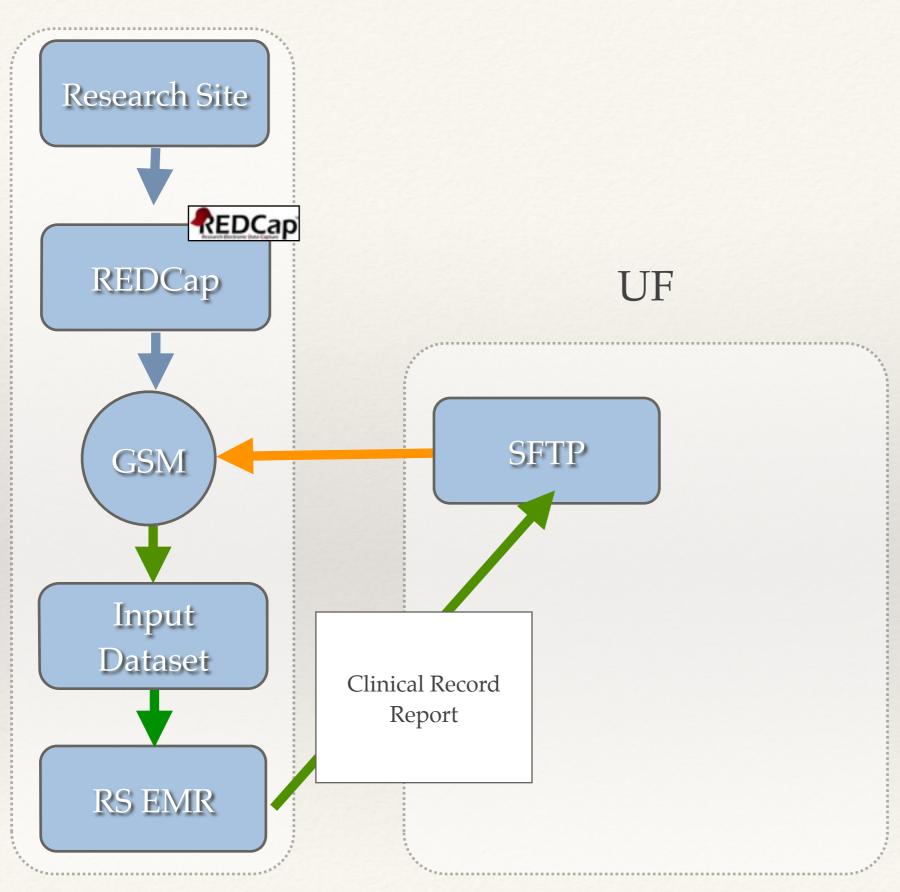
RED-I will automate much of the process. RED-I is open source and available on GitHub at:

https://github.com/ctsit/redi





Site

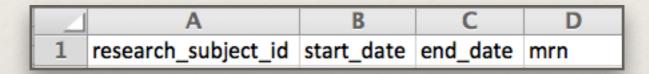


List of Labs

CBC Chemistry HCV RNA INR

smi.xml

input.csv



SQL for EMR (EPIC)

SELECT

```
irb.STUDY ID, cc.NAME, cc.COMPONENT ID, ordres.ORD VALUE, ordres.REFERENCE LOW,
       ordres.REFERENCE HIGH, ordres.REFERENCE UNIT, op 2.SPECIMN TAKEN TIME, ordres.RESULT DATE
FROM
       dbo.tbl IRB 549 2011 MRN AS irb
INNER JOIN
       CLARITY.dbo.IDENTITY ID AS id I ON irb.MRN NZ = id I.IDENTITY ID
RIGHT OUTER JOIN
       CLARITY.dbo.ORDER PROC 2 AS op2
RIGHT OUTER JOIN
       CLARITY.dbo.ORDER PROC AS op I ON op 2.ORDER PROC ID = op I.ORDER PROC ID
LEFT OUTER JOIN
       CLARITY.dbo.ORDER RESULTS AS ordres ON ordres.ORDER PROC ID = op1.ORDER PROC ID
LEFT OUTER JOIN
       CLARITY.dbo.CLARITY COMPONENT AS cc ON ordres.COMPONENT ID = cc.COMPONENT ID
LEFT OUTER JOIN
       CLARITY.dbo.PAT_ENC AS pe ON op I.PAT_ENC_CSN_ID = pe.PAT_ENC_CSN_ID
LEFT OUTER JOIN
       CLARITY.dbo.PATIENT AS p ON pe.PAT_ID = p.PAT_ID
       ON id1.PAT ID = p.PAT ID AND irb.START DATE <= ordres.RESULT DATE
WHERE (id1.IDENTITY_TYPE_ID = '101') AND (ordres.RESULT_DATE <= irb.END_DATE)
```

output.csv

E		Α	В	С	D	Е	F	G
L	1	NAME	COMPONENT_ID	RESULT	REFERENCE_UNIT	DATE_TIME_STAMP	RESULT_DATE	STUDY_ID

Next Steps

UF will send information to the site's REDCap team.

This will include a data dictionary file for subject entry.

UF will setup a SFTP account for use by the site's EMR team.

A simple test of access to the site will be conducted with test data.

A next meeting will be scheduled.

"Never Give Up."

-Coach Bo