

Direct Transmission of PT Results

User Guide, Part 3 of 3 Laboratory Setup Guide

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INTRODUCTION

What is Direct Transmission?

Direct transmission is a proficiency testing (PT) results reporting solution that allows a laboratory to transmit PT data directly to the College of American Pathologists (CAP). This delivery option provides laboratories with the ability to electronically transmit quantitative PT results from their laboratory information system (LIS) to the PT Result Forms Data Entry interface in e-LAB Solutions Suite, providing faster and more accurate results reporting.

How does Direct Transmission Work?

Direct transmission sends data from the laboratory's LIS to the "hub," a cloud-based service that facilitates the exchange of clinical data between a laboratory's LIS and other systems. The hub translates your test codes to CAP PT codes and then routes the PT results directly to e-LAB Solutions Suite where it automatically populates the result form(s).

This process:

- reduces manual data entry clerical errors, the largest cause of PT failure.
- saves the laboratory hours of data entry on an annual basis.
- meets the Clinical Laboratory Improvement Amendments (CLIA) and the CAP's Laboratory Accreditation Program checklist requirement to treat PT specimens like real patient specimens

Transmission Mechanism

The PT extract report pulls the PT results for a given kit. The PT results file, or output, is saved to a location on your laboratory's network and picked up by a transfer application, called the "agent," which regularly checks your network location for new results.

The agent delivers the PT results file to the hub. The hub will transfer received results to the CAP's e-LAB Solutions Suite Result Form Data Entry interface, populating the result form for the appropriate program with the test results.

The CAP requires your laboratory's seven-digit CAP number and PT-related information (the kit number and specimen ID) to be transmitted along with the PT results extracted from the LIS using a standardized ordering convention.





Data Eligible for Transmission

Direct transmission is currently limited to quantitative (ie, numeric) data only. Laboratories utilizing direct transmission to report Quality Cross Check (QCC) results will only be able to do so for two instruments. Third instrument results cannot be directly transmitted to the CAP at this time. You can enter results for the third instrument online via e-LAB Solutions Suite.

Direct transmission does not include:

- Interpretations (eg, normal/abnormal, present/absent, susceptible/resistant)
- Textual or encoded data (eg, bacterial species/genus identifications, blood cell identifications)
- Method or instrument codes*
- Exception codes (eg, code 11, unable to analyze)
- Calibration Verification/Linearity (CVL) programs

**Note:* Method or instrument codes are not transmitted but will be prepopulated on the result form based on your previous mailing transmission.



Checklist for Direct Transmission Setup Process

The table below reflects the setup activities required before using direct transmission to transmit your PT results. Relevant reference documents and suggested roles are included. Use the table below to monitor the progress for the direct transmission setup.

Step	Activity(ies)/Task(s)	Reference(s)	Suggested Role(s)
1	Complete/verify the readiness assessment.	Readiness assessment	Laboratory staff
2	Allocate a technical resource to setup a server, install the agent, create network folders, and assign appropriate permissions.	Technical requirements and agent installation	IT/IS
3	Install the LIS reports.	Reports installation	LIS vendor or LIS analyst (for Meditech and
4	Review the CAP-required data elements and create new patient(s) and provider(s).	Laboratory setup guide	Laboratory staff or registration and credentialing departments
5	Validate laboratory staff permissions to access the direct transmission hub in e-LAB Solutions Suite.	Laboratory setup guide	Laboratory staff
6	Obtain your laboratory's test codes and upload them into the direct transmission hub.	Laboratory setup guide	Laboratory staff or LIS analyst/admin
7	Map your laboratory's test codes to the CAP's test codes for the quantitative analytes you will be transmitting.	Laboratory setup guide	Laboratory staff or LIS analyst/admin
8	Run the PT extract report in test mode to send a file and confirm your mappings by transmitting a previously approved CAP PT kit.	Laboratory setup guide	Laboratory staff or LIS analyst/admin



Checklist for Transmitting Your First Live PT Kit

The table below shows the steps required to transmit your laboratory's first live PT kit. Relevant reference documents and suggested roles are included.

Step	Activity(ies)/Task(s)	Reference(s)	Suggested Role(s)
1	Create a new order (based on your LIS ordering convention) for each PT specimen in your kit.	Laboratory setup guide	Laboratory staff
2	Process the specimens via the kit instructions.	Kit instructions and result form	Laboratory staff
3	Run the extract report for the PT kit ready for transmission to the CAP.	Laboratory setup guide	Laboratory staff
4	Verify the transmitted PT results within e-LAB Solutions Suite Result Form Data Entry, approve, and submit them to the CAP.	Laboratory setup guide	Laboratory staff



READINESS ASSESSMENT

Complete/Verify Readiness

To use direct transmission, your laboratory must comply with certain technical requirements and a standard ordering convention (see below). At a high-level, this includes being able to confirm the following:

- 1. Your systems align to the technical requirements in the Technical Requirements and Agent Installation document.
- 2. You can place your 7-digit CAP number, 8-digit kit number, and specimen ID (eg, CHM-01) in the prescribed fields for your LIS .

TECHNICAL AND REPORT SETUP

Allocate IS and LIS Admin Resources

Each organization may use a different process for allocating resources. Follow your current process to request assistance from IT/IS and your LIS administrators. Once you allocate these resources, you are ready to provide them with the information they need to complete their role as part of the setup.

Provide Agent Installation and Setup Instructions

Once you have secured your resource from the IS/IT departmental area, you can provide them with the Technical Requirements and Agent Installation document. To complete the setup, the CAP web specialists will need your IS/IT resource contact information to complete the process. The CAP web specialists may setup a web meeting to walk your IS/IT resource through the setup process and answer any questions.

Provide LIS Report Instructions

After the IS/IT resource has completed the technical setup, send your LIS administrator the report installation guide provided to you. The guide is a complete step-by-step document and should guide your LIS administrator through the process easily. If there are any issues encountered while following the guide, the CAP web specialists available for support.



CAP-REQUIRED DATA ELEMENTS

Understand the CAP Required Information

The CAP requires a few key pieces of information for reporting PT results to the CAP using direct transmission.

You must enter CAP PT-related information in your LIS at the time you place the testing order (order entry) using a standardized ordering convention. This information includes:

- 1. **CAP number**—A unique, seven-digit identification number assigned to each laboratory. This number never changes for the respective laboratory.
- 2. **Kit number**—A unique, eight-digit number assigned to each PT kit shipped from the CAP and can be found on the result form. This number changes from mailing to mailing.
- 3. **Specimen ID**—An alpha-numeric identification assigned to each specimen included in a PT kit (eg, CHM-01). This information can be found on the specimen label.

Note: The fields utilized for these data elements will vary by LIS, as described in the next section.

Review the Standard Ordering Convention

To help the CAP identify your specific PT results response, you must place the three CAP-required data elements in designated fields in your LIS. The table below shows where the CAP-required data elements will be captured for your respective LIS.

Standard Ordering Convention								
	SCC Soft	Sunquest	Meditech Expanse	Meditech Client Server	Meditech Magic			
CAP #	Provider NPI (within provider record)	Physician code (within physician record)	Provider first name (within provider record)	Submission code (within provider record)	Phone comment (within laboratory site)			
Kit #	Req # or CS Req #	Order comment field	Comments under specimen tab	Comments under specimen tab	Comment in the order entry			
Specimen #	Patient first name	Patient first name	Patient first name	Patient first name	Proficiency set ID			



Your LIS will also dictate other required information to complete an order; this varies by LIS.

Create New Patients

Before an order can be created for direct transmission, patients must be created for each CAP PT specimen. These newly created patients are fictitious patients that will not go through any medical billing processes.

The responsibility for creating patients may vary from organization to organization. You may have the appropriate access to create patients or this may be a function done by another department such as scheduling and registration. If you do not have the appropriate access to create a patient, then you will need to allocate a resource for further assistance.

Creating a patient within an electronic medical record system involves specific required patient demographic information (eg, patient first name, patient last name, patient date of birth, patient social security number). If the patient creation happens within another department, then the laboratory will need to provide the patient names. In most cases, the patient name includes the specimen ID being resulted.

For example:

Patient Registration



In this example, the specimen ID, "CHM-01," is in the Patient First Name field.

Patient First Name: CHM-01 Patient Last Name: CAPPT Patient Address: 325 Waukegan Rd, Northfield, IL 60093 Patient Phone: 847-832-7000 Patient Sex: M. Patient SSI: 999-999-9999 Patient DOB: 1/1/2001 Marital Status: S

The key piece of information needed for CAP use from patient demographics is the specimen ID. All other information can be populated at the discretion of your team with fictitious data.

New patients created are required for each specimen being processed for PT. However, once the patients are created, they can be used from year to year to create new orders against these patients to satisfy the PT process.



Create New Providers

A new provider record must be created for use with direct transmission. This step must be done only once, placing your CAP number in a specific field depending on your LIS. Then, since the information is already stored, all you will need to do is select an ordering provider at the time you create future orders for PT specimens.

The responsibility for creating providers may vary from organization to organization. You may have the appropriate authority and access to create patients or this may be a function done by another department (eg, credentialing). If you do not have the appropriate authority and access to create a provider, then you will need to allocate a resource for further assistance.

Within the provider record, the national provider identifier (NPI) is the key data element that will be transmitted. All other data elements will be ignored. All other fields that are required to complete the provider build is up to the discretion of your organization.

For example:

Provider Record

Provider First Name: Doctor Provider Last Name: CAPPT Provider NPI: 1234567 In this example, the provider NPI, "1234567," is in the Provider NPI field.

Provider Address: 325 Waukegan Rd, Northfield, IL 60093 Provider Phone: 847-832-7000

Follow the Standard Ordering Convention table to identify the exact position of the CAP number. Also, you may need to setup numerous providers if you are considered a multi-facility and have several CAP numbers within your organization.

Exception: For Meditech Magic, instead of creating a new provider, follow your process to create a new laboratory site. Your CAP number will go in the site's phone comment field.



Follow the New Order Entry Method

Using the Standard Ordering Convention for your LIS and your ordering process, follow the high-level steps below to create an order. The steps may vary from organization to organization and may also be in a different order.

1	Sign into your LIS and perform a Patient Search to locate your desired specimen ID (patient) to process (eg, "CAPPT CHM-01" for a Chemistry specimen).
2	Create an order for the selected patient (order entry).
3	Select the appropriate ordering provider (laboratory site for Meditech Magic) that is storing your CAP number (eg, "Doctor CAPPT").
4	Add the Kit number within the appropriate location (eg, "12345678" in the Order Comment Field). Look up the appropriate location within the Standard Ordering Convention table in this document.
5	Select the tests to be processed under the respective specimen ID (patient) (eg, Glucose and Sodium).
6	Complete the order based on your LIS minimum required fields.



E-LAB SOLUTION SUITE

Set Up/Validate Permissions

Laboratory staff must be given appropriate permission by their site administrator in e-LAB Solutions Suite to access hub information.

Site administrators can view the current access/permissions of laboratory staff by going to cap.org.

- Click Access e-LAB Solutions Suite and log in.
- Click Manage Lab User's Online Access/Permissions.

The table below explains the permission type, hub access type, and actions the user can take.

e-LAB Solutions Suite PT Permissions Type	Hub Access Type	What you can do in the hub
View Reports and Enter Data	View Only	 View Transmissions received from the LIS and sent to the CAP Mappings for laboratory test codes to CAP codes Unit of Measure (UOM) conversions
Approve Data	Client Admin	 View and Edit Transmissions received from the LIS and sent to the CAP (view) UOM conversions (view) Mappings for laboratory test codes to CAP codes (view/edit) Alerts (view/edit)

Note: To access the hub, click **Set-up Direct Transmission** under the Proficiency Testing/Quality Improvement heading.



LABORATORY TEST CODES

Obtain Your Laboratory's Test Codes

Prior to mapping, you must obtain a list of your laboratory's tests, including the code, description, UOM, and specimen type. You may already have access to this or need to work with your LIS staff to obtain one. Some of the LISs will have a Test Compendium Report available on the LIS report menu. See below for some high-level notes on the report.

Note: To make mapping easier, work with your LIS staff to limit the tests to **quantitative tests only**.

Test Compendium Report

Locate the test compendium report from your LIS report menu. You may need to contact your LIS administrator that installed the report to obtain the report name. You will select and open the report as you do all other LIS reports.

There are no report parameters to enter for this test compendium report. Click the **OK**, **Submit**, or **Run** to initiate the report to run the query and extract the information in a comma separated values (CSV) file that will be placed in a specific location on your network (typically a temporary folder). You can use this report in the test code mapping process defined in the next section of this document.



TEST CODE MAPPING

Purpose of CAP Code Mapping

Before your laboratory can directly transmit results to the CAP, you must map your laboratory's LIS test codes to the CAP codes. The CAP maintains a list of standardized codes that must be mapped to the laboratory's test codes. The mapping process allows recognition of each laboratory's test code(s) and matches it to the correct CAP code(s). The hub provides the mechanism to link them. The hub uses the CAP mapping codes to identify the results from your laboratory's instruments and populate them directly into e-LAB Solutions Suite for verification.



*Data is for illustrative purposes only.



Understanding CAP Mapping Codes

Each laboratory has its own test codes originating from their instrumentation or LIS. For example, when testing for glucose, one laboratory system might issue results for "glu" and another for "glucose, serum." The CAP system contains standardized test codes and naming conventions, to easily collect and analyze data from hundreds of laboratories.

CAP mapping codes consist of:

- CAP Test Description- List of tests that can be submitted via direct transmission.
- **CAP Program Description-** The program code containing the test. Some tests are in multiple programs. The programs that display in the hub will be based on the laboratory's order.
- **CAP Mapping Code**—The standardized code unique to the test and unit of measure that ties the result to the PT event. These codes are used to populate the result form with the laboratory's result.
- CAP UOM—The unit of measure associated with the test for the program shown.

Note: Every CAP test description has an associated CAP mapping code. There can be multiple CAP mapping codes for the same analyte for different UOMs or specimen types. If a test exists in multiple programs, and the CAP Test Description and CAP UOM is the same, then the CAP mapping code is the same; however, if the CAP UOM is different, then the CAP mapping code is also different. For example:

s example, the test for H Vitamin D" exists in different programs.	All Administra CAP Program Description: ALL Lab. Test Description:	tion Reports CAP Lab	Test Description: Fest Code:	C/ St
	CAP Test Description	CAP Program Description	CAP Mapping Code*	CAP UOM
	% Inhibition	CGS5	CAP123	%
	11-deoxycortisol	Y	CAP456	nmol/L
	11-deoxycortisol	Y	CAP789	ng/mL
	17-hydroxycorticosteroids	Ν	CAP1011	mg/L
	17-hydroxyprogesterone	Y	CAP1213	ng/dL
	17-hydroxyprogesterone	Y	CAP1415	nmol/L
	17-ketosteroids	Ν	CAP1617	mg/L
	25-OH Vitamin D	ABVD	CAP1819	nmol/L
	25-OH Vitamin D	VITD	CAP2021	nmol/L
	25-OH Vitamin D	ABVD	CAP2023	ng/mL

*Data is for illustrative purposes only.



Using the Hub for Test Code Mapping

The hub is essential to the code mapping process. The hub contains:

- A pre-populated list of CAP PT programs your laboratory has ordered for the current year that are eligible for direct transmission.
- An automatic conversion of a test's UOM(s) when the CAP UOM is different than your laboratory's UOM, except molecular to mass/mass to molecular. *Note:* The UOM conversion list contains the most common conversion factors. If you do not see a conversion listed, contact the CAP.
- A mechanism to test the code mapping prior to transmitting results for your first PT event.

There are three acceptable methods for mapping your laboratory's test codes to the CAP's codes using the hub:

- Method 1: Upload your codes to the hub and match them directly to CAP mapping codes
- **Method 2**: Download the CAP mapping codes to a spreadsheet and match to your laboratory's test codes
- **Method 3**: Manually add and match your laboratory's test codes to CAP mapping codes in the hub

The CAP recommends Method 1, described in further detail below. If Method 1 is not appropriate for your laboratory, you may use either of the other two methods. For example, your laboratory might have previously mapped codes manually or is part of a multi-facility organization that wishes to reuse an existing spreadsheet. Refer to the Appendix for a complete description of the other two methods.

How to Refresh CAP Codes in the Hub

Prior to mapping test codes, you should first refresh the CAP codes in the hub following the process.

Step	Instructions
1	Go to cap.org and click Access e-LAB Solutions Suite. Log in, then click Set-up Direct Transmission.



Step	Instructions
2	Hover over the Administration tab and click Test Code Mapping.
	All Activities Administration Reports Institute Company Configuration Image: Company Configuration Institute Laboratory Image: Company Configuration Users Image: Company Configuration Image: Company Configuration Institution/Orc Test Code Mapping CAP # UOM Conversion Tag Master Image: Company Configuration Download Alerts Image: Company Configuration
3	 If this is the first time your laboratory has logged into the hub, you must "refresh" the CAP test codes. <i>Note:</i> The CAP fields will appear blank until you follow the steps in this section.
	CAP Program Description: CAP Test Description: CAP Mapping Code: Status:
	Lab Test Description: Lab Test Code: Specimen Type: CAP #: Search Image: Comparison of the second of
	Image: Speciment to CSV CAP CAP Upload Mapped File ADD TEST CODES UPLOAD TEST CODES CAP CAP Lab Test Speciment Speciment Speciment
	CAP Test Description Program Description Mapping Code CAP UOM Code Lab Test Code Operation Lab Test Code Type
	Q ,
	 Note: You should also refresh the CAP test codes when: vour laboratory orders a new PT program, and
	 at the beginning of each calendar year.
	 If you have access to multiple laboratories, click the CAP # drop-down menu and select the CAP # for the site you want to map.



Step	Instructions						
4	Click Refresh CAP Test Codes.						
	 The CAP ordered for is pre-pop current yet 	code data assoc or the current yea ulated with the (ar.	iated wi ar displa CAP PT	th the CAP ys on the le programs ye	PT programs ft side of the s our laboratory	your labo creen. <i>N</i> e has orde	ratory has o <i>te:</i> The hub red for the
	The CAP the colum	codes display in n headers to cha	CAP M ange the	apping Code order.	e order. Use tl	ne sorting	feature in
	All Activities Adm	inistration Reports				Test 0	Code Mapping
	CAP Program Descrip	tion: CAP Test Descrip	tion	CAP Manning Code:	Statue		
	All	*		chi happing couci	All	+	
	Lab Test Description	: Lab Test Code:		Specimen Type:	CAP #:	Searc	h
	Click on the re-sort	he Column Headings to the CAP test codes	Export to CSV	Refresh CAP Test Code	Upload Mapped File ADD Te	Clea	r ID TEST CODES
	CAP Test Description	CAP Program CAP Mapping Description Code *	CAP UOM	Lab Test Description	Lab Test Code Specimen Type	Lab UOM Actions	
	% Inhibition	CGS5 CAP123	%				•
	11-deoxycortisol	Y CAP789	ng/mL				Q.
	17- hydroxycorticosteroids	N CAP1011	mg/L				۹
	17- hydroxyprogesterone	Y CAP1213	ng/dL				۹,
	17- hydroxyprogesterone	Y CAP1415	nmol/L				۹.
	17-ketosteroids	N CAP1617	mg/L				۹
	*Data is for illu	strative purposes only					

The next step is to prepare a CSV file with your laboratory's test codes and uploading it to the hub. After uploading, you will manually map your test codes to the CAP test codes. The steps in the uploading and mapping processes are described in the next section.

Note: Prior to uploading and mapping codes, you must download your laboratory's test codes from your LIS. See the Test Compendium Report section.



How to Upload Your Laboratory Codes to the Hub

Step	Instructions							
1	Export your test codes from your LIS with the following columns. <i>Note:</i> You can also create an CSV with the following columns and populate it with laboratory's test code data							
	laboratory's test code	uala.	-	51 <u>– 5</u> 8				
	A 1 LabTestDescription 2	B LabTestCode	C Specimen Type					
	3 4 5							
	6 7 8							
	9							
	<i>Important:</i> The colum headings you see abc will fail.	n headers in you ove. If your colur	ur CSV file must m nns are different, f	natch EXACTLY th the upload of map	e column oed test codes			
	<i>Tip</i> : Before you upload remove any test code process.	d your laborator s that are not ap	y's test codes, you oplicable to quanti	u may want to revie tative PT to simplif	ew the list and y the mapping			
2	Go to cap.org and clic Transmission.	k Access e-LA	B Solutions Suite	e. Log in, then click	Set-up Direct			
3	Hover over the Admin	istration tab and	d click Test Code	Mapping.				
		All Activities	Administration Repo	rts				
		Institut	Laboratory	-				
			Users	*				
		Institution/Org	Test Code Mapping	<u>CAP #</u>				
			Tag Master					
			Alerts					



		1001	55463.					
-	All Activities Admir	histration	Reports					Test Code Mapping
	CAP Program Descript	tion: +	CAP Test Descrip	otion:	CAP Mapping Cod	le: St	atus: Jnmapped 👻	
	Lab Test Description:		Lab Test Code:		Specimen Type:	C/	AP #:	Search
			Export to C	SV <u>Refresh</u>	CAP Test Code U	load Mapped File	ADD TEST CODES	4 UPLOAD TEST CODES
	CAP Test Description	CAP Program Description	CAP Mapping Code *	CAP UOM	Lab Test Description	Lab Test Code	Specimen Type Lab UOM	Actions
	% Inhibition	CGS5	CAP123	%				٩
	11-deoxycortisol	Y	CAP456	nmol/L				9,
	17-deoxycortisol	N	CAP789 CAP1011	mg/ftL				<u>v</u>
	Invarox v contre osceronos				1			
	CAP #	#: 5 7201	File No file ch	son				
	CSV File Name	 Choose Only CS Data forr CAPTes LabTest Please n automat Be sure 	V file format is mat must be: tDescription, :Code, Specin ote that when ically convert it to review test	CAPProgr nenType, L CAP UOM a the test (an. (analyte) re	upload. amDescription, ABUOM nd Lab UOM do r alyte) results to soults in Results to	CAPMapping	gCode, CAPUOM, La if conversion factor riew the <u>list of UOM (</u> ry (e-I AB Solutions	abTestDescription, is available, we will conversions.
	CSV File Name	 Choose Only CS Data for CAPTes LabTest Please n automat Be sure I hav Subn 	V file format is mat must be: tDescription, cOde, Specin ote that when ically convert to review test ve read and ag	CAPProgr nenType, L CAP UOM a the test (an (analyte) re reed to the	upload. amDescription, ABUOM nd Lab UOM do r alyte) results to esults in Results f conversions.	CAPMapping lot match and CAP UOM. Rev Form Data Ent	g Code, CAPUOM, La if conversion factor riew the <u>list of UOM o</u> ry (e-LAB Solutions	abTestDescription, is available, we will conversions. Suite).



How to Map Your Laboratory Test Codes to CAP Codes

Step	Instruction	S			
1	Enter a search	parameter.			
	COLLEGE of AMERICAN PATHOLOGISTS Laboratory Quality Solutions				fcome, <u>CaoAdmin</u> <u>Sion Out</u> <u>Hel</u> e 1.1 Transfer
	All Activities Administratio	n Reports			Test Code Mapping
	CAP Program Description:	c 1 -	C	AP Test Description:	2
	Lab Test Description:		Lab Test Code:		- Search Clear
					ADD TEST CODES UPLOAD TEST CODES
	CAP Test Description	CAP Program Description	CAP Mapping Code	CAP UOM	Lab UOM Actions
	Acetaminophen	с	CAP123	umol/L	
	Acetaminophen	с	CAP456	ug/mL	
	Acid phosphatase	с	CAP789	U/L	
	Albumin	С	CAP1011	g/dL	
	Albumin	С	CAP1213	g/L 3	
	Alkaline phosphatase	c	CAP1415	U/L	
	ALT (SGPT)	c	CAP1617	U/L	
	Amikacin	с	CAP1819	ug/mL (mg/L)	
	Ammonia	c	CAP2021	umol/L	@
	Amylase	c	CAP2223	U/L	
	Apolipoprotein A1	c	CAP2425	mg/dL	
	Apolipoprotein A1	C C	CAP2627	g/L	
	Apolipoprotein B	C	CAP2829	g/L	
	Apolipoprotein B	C	CAP3031	mg/dL	
	AST (SGOT)	c c	CAP 3233	0/L	
	Bilirubin, direct	c	CAP3435	umol/I	•
	Bilirubin, total	c	C 4P 3839	umol/l	۹,
	*Data is for illustrative	e purposes only.			
2	Click Search . T	he test code	s display ba	ased on your	search criteria.
3	Click the magn	ifying glass	icon assoc	ciated with the	e code you want to map.
4	Click the box a	ssociated w	ith the lab	oratory code	to select it.
-	<i>Note:</i> Use the S	Search field t	o look for a	specific labo	ratory test code.



Step	Instru	ctions				
	SELECT/AD	DD LABORATORY TEST	CODES		x	
	CAP Test CAP M	Description: Albumin apping Code: CAP123 [*] .	CA	AP Program Description: CAP UOM:	C g/L	
	-				Search	
	Select	Lab Test Code 1	Lab Test Description	Specimen Type	<u>Lab UOM</u>	
		ACEM	ACETAMINOPHEN	SERUM	mcg/mL	
I	☑ 4	ALB	Albumin	Blood	g/L	
		ALKP	ALKALINE PHOSPHATASE	Serum	U/L	
		INR	INR	Blood		
		LDH	LDH	SERUM	Units/L	
		PROTH	PROTHROMBIN TIME	Blood	Seconds	
	*Data is for	tems Records per page:	50		(d d <u>1</u>))	
	Data is ioi		July.			
	Note: Wi laborato	hile this example ory test codes t	e shows selecting of to one CAP code .	ne laboratory t	est code, you can map	multiple
5	Click Ma	ıp.				



6								
-	Click OK .							
	T Information Note that the second se	bumin his test code will also M Dortisol AM TREATININE rative purposes ory code is want to rer	Blood be mapped to CAP1 Blood Serum only. now mappe nove a test	23*, C, Ok	CAP mapping at you uploaded	code.	a far rights	ide o
	that specific	test and ci	ICK THE X.				, ngin a	
	All Arthetias	and the second se					Jest Cod	Mapping
	All Activities Administratio	Reports	CAP Test Description		CAP Manning Code:	Statue at	Test Code	Mapping
	All Activities Administratio	niption: C +	CAP Test Description:		CAP Mapping Code:	Status: All	Test Cod	Mapping
	All Activities Administration CAP Program Desc Lab Test Desc	ription: C +	CAP Test Description:		CAP Mapping Code: Specimen Type:	Status: All	Test Cod	Mapping
	All hotsvities Advansativation CAP Program Desc Lab Test Desc CAP Test Description	ription: C +	CAP Test Description:	САР ИОМ	CAP Mapping Code: Specimen Type: Esset1a.CSV 5 Lab Test Description Lab Test C	Status: All CAP #: : infresh CAP Test Code Veload Macred Elle ofe Specimen Type I tab Ud	Test Cod Search Clear ADD TEST CODES UPLOAD T ON Actions	Mapping
	Al Activities Administration CAP Program Desc Lab Test Description Actaminophen	ription: C + ription: CAP.Prooram.Description C	CAP Test Description: Lab Test Code: CAP. Menoling. Code.* CAP 123	CAP 10M umol/L	CAP Mapping Code: Specimen Type: Execution CSV 8 Lab Test Description Lab Test C	Status: All CAP #: 2 effesh.CAP Test.Code Uebad Mageed File sde Specimen Type Lab UK	Test Code Search Clear ADD TEST CODES UPROAD T OM Actions	e Mapping
	Al Activities Administration CAP Program Desc Lab Test Description Actaminophen Actaminophen	Reports ription: C CAP. Program Description CAP. C	CAP Test Description: Lab Test Code: CAP Manelino Code * CAP123 CAP166	CAPLIOM umol/L ug/mL	CAP Mapping Code: Specimen Type: Exect to CSV B Lab Test Description Lab Test C	Status: Al CAP #: fresh.CAP Test.Code Ueload Magreed File de Specimes Type Lab UC	Test Code Search Clear ADD TEST CODES UP(LOAD T OM Actions	EST CODES
	Al Activities Administration CAP Program Desc Lab Test Desc CAP Test Description Actaminophen Actaminophen Acid phosphatase	ription: C CAP.Program.Description C C C C C C C C C C C C C C C C C C C	CAP Test Description: Lab Test Code: CAP Manalana Code * CAP123 CAP456 CAP789	CAP DOM umol/L ug/mL U/L	CAP Mapping Code: Specimen Type: Expert to CSV 8 Lab Test Description Lab Test C	Status: Al CAP #: see Specimen Type Lab UC	Test Cod Search Clear ADD TEST CODES UPLOAD T M Actives	Mapping EST CODES
	Al Activities Administration CAP Program Desc Lab Test Desc CAP Test Description Actaminophen Actaminophen Actaminophen Actaminophen Actaminophen Actaminophen Actaminophen	Reports ription: C CAP. Program Description C C C C C C C	CAP Test Description: Lab Test Code: CAP Manolog Code * CAP122 CAP456 CAP195 CAP23 CAP23	CALLUOM umol/L ug/mL U/L g/L	CAP Mapping Code: Specimen Type: Execut to CSV 8 Lab Test Description Lab Test C	Status: Al CAP e: side Specimen Type Lab UC Blood g/L	Test Code Clear Clear Clear ADD TEST CODES UPLOAD T OM Actions Ummap Edit	Mapping EST CODES
	All instructions Administrations CAP Program Desc Lab Test Desc Lab Test Desc Lab Test Desc Lab Test Description Add phosphatase Allownin Allaline phosphatase	ription: C CAP Program Description C C C C C C C C C C C C C C C C C C C	CAP Test Description: Lab Test Code: CAPL Mapping Code * CAP123 CAP1456 CAP129 CAP145 CAP1415	CAE 0004 umo//L ug/mL U/L g/L U/L	CAP Mapping Code: Specimen Type: Exect to CSV 8 Lab Test Description Lab Test Description Albumin ALB	Status: Al CAP #: : the chap of the line is a chap of the line i	Test Cod Search Clear ADD TEST CODES UPLOAD T ON Actions Ummap Edit	e Mapping EST CODES
	All hotsvities Administration CAP Program Desc Lab Test Desc Lab Test Description Actaminophen Actaminophen Actaminophen Actaminophen Actaminophen Actaminophen Actaminophen Actaminophen Adaline phosphatase Attacies (SGPT)	CAP program Description CAP program Description C C C C C C C C C	CAP Test Description: Lab Test Code: CAP 23 CAP 24 CAP 24	CAP_UOM ump/L ug/mL U/L U/L U/L U/L	CAP Mapping Code: Specimen Type: Lab Test Description Lab Test C Albumin ALB	Status: Al CAP #: : fresh CAP Test Code Veload Macred Elle ofe Specimen Type Lab UC Blood g/L	Test Cod Search Clear ADD TEST CODES UPLOAD T OM Actions Ummap Edit	e Mapping EST CODES
	Al Actorities Administration CAP Program Desc Lab Test Desc CAP Test Description Actaminophen Actaminophen Actaminophen Actaminophen Add phosphatase Albumin Mikaline phosphatase Art (GPT) Amikacin	CAP Process Description	CAP Test Description: Lab Test Code: CAP Maneline Code * CAP 122 CAP 456 CAP 123 CAP 159 CAP 1213 CAP 145 CAP 1617 CAP 1619	CAE DOM umoVL ug/mL V/L g/L V/L u/L u/L u/L u/L u/L	CAP Mapping Code: Specimen Type: Exect to CSV 8 Lab Test Description Lab Test C Albumin ALB	Status: Al CAP e: S effecth CAP Test Code Ueload Macced File sde Specimen Type Lab UC Blood g/L	Test Cod Search Clear ADD TEST CODES UPLOAD T OH Actions Unmap Edit	e Mapping
	All instructions Administrations CAP Program Desic Lab Test Desic Lab Test Desic Adminent Acid phosphatase Add phosphatase Add phosphatase Add phosphatase Att (GOPT) Alkaline phosphatase Att (GOPT) Ammonia	Keports C	CAP Test Description: Lab Test Code: CAP Manelog Code * CAP123 CAP123 CAP123 CAP123 CAP1213 CAP1213 CAP1213 CAP1213 CAP1819 CAP1819 CAP221	CALL NOM umoVL ug/mL V/L V/L V/L V/L U/L ug/mL (mg/L) umoV/L	CAP Mapping Code: Specimen Type: Exost to CSV B Lab Test Description Lab Test C Albumin ALB	Status: Al CAP #: sde Specimen Type Lab UC Blood g/L	Test Cod Search Clear ADD TEST CODES UPLOAD T M Actives Unmap Edit	Mapping EST CODES

*Data is for illustrative purposes only.

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CAP 2627 CAP 2829

6 P 20 2



Resolving UOM Conversion Mismatches

When the system encounters a UOM mismatch, it puts an asterisk (*) next to the laboratory UOM and displays a mismatch message at the top of the screen.

Il Activities Administration	Reports								Test Code Mappin
CAP Program Descri	ption: ALL +	CAP Test Description:		CAP Mapping Code:		Status: All	*		
Lab. Test Descri	ption:	Lab Test Code:		Specimen Type:		CAP #:	*	Search	Clear
		Indicates that UOM	1 conversion has been agree	ed to by laboratory user. Review t	the list of UOM conversions.)			
		Indicates that UOM	1 conversion has been agree	ed to by laboratory user. Review t Expo	the list of UOM conversions. ort to CSV Refresh CAP T	est Code Upload Mapped File	ADD TE	ST CODES	UPLOAD TEST CODE
AP Test Description	CAP Program Description	CAP Mapping Code*	A conversion has been agree	ed to by laboratory user. Review t Expo	the list of UOM conversions. ort to CSV Refresh CAP T Lab Test Code	est Code Upload Mapped File Specimen Type L	ADD TE	ST CODES	UPLOAD TEST CODE
AP Test Description SO Quantitative	CAP Program Description S	CAP Mapping Code* CAP 123	CAP JOM	ed to by laboratory user. Review t Expo Lab Test Description Anti Strep O Titer	the list of UOM conversions. ort to CSV Refresh CAP T Lab Test Code ASOT	est Code Upload Mapped File Specimen Type La BLOOD (1	ab UOM	ST CODES Actions Unmap	UPLOAD TEST CODE

*Data is for illustrative purposes only.

When your laboratory is mapping test codes and a mismatch occurs, the system checks to see if a UOM conversion factor exits. If it exists, the system will convert the laboratory's PT results to the CAP UOM.

If there is no conversion factor, the system displays the following message, stating that there is no conversation in the system. Your laboratory will not be able to map that laboratory test code and must enter the results for that test in Result Form Data Entry in e-LAB Solutions Suite. Click **Notify CAP**.



*Data is for illustrative purposes only.



You can access the system's test code conversions in either of the following ways:

or

Click on the hyperlink in the **Upload CSV File** popup.

x
pingCode, CAPUOM, LabTestDescription,
and if conversion factor is available, we will Review the list of UOM conversions. Entry (e-LAB Solutions Suite)

Hover over the Administration tab and click UOM Conversions.





Using Filters in the Hub

The filter options on the hub's test code mapping page allow you to quickly find CAP programs and test codes within the hub.

To use a filter option, select or enter the filter criteria in the filter option field(s) and click Search.

Note: You must click Clear after you have used a filter option(s) and want to use a different filter(s).

CAP Program Desc	ription: ALL +	CAP Test Description:		CAP Mapping Code:		Status: All	*
Lab. Test Desc	ription:	Lab Test Code:		Specimen Type:		CAP #: 1319281	- Search Clear
				1	Export to CSV Refresh CAP Te	est Code Upload Mapped File AD	D TEST CODES UPLOAD TEST
AP Test Description	CAP Program Description	CAP Mapping Code*	CAP UOM	Lab Test Description	Lab Test Code	Specimen Type Lab UOM	Actions
A 125	TM	CAP123	U/mL				
uteinizing hormone	Y	CAP456					
igoxin	c	CAP789	ng/mL				
igoxin	CZQ	CAP1011	ng/mL				
roponin I, quant, ng/mL	CAR	CAP1213					
5A, free	к	CAP1415	ng/mL (ug/L)				
mothy grass	SE	CAP1617					
ortisol, Urinary Free	N	CAP1819	ug/L				
iti-Sm, quant	52	CAP2021					
lasma cells	BMD	CAP2223					

*Data is for illustrative purposes only.



How to Unmap Test Codes

There may be instances when you need to unmap a test code (eg, change a UOM, remove/add a test code).

1	Go to cap.or(Transmissio	g and cl ›n .	lick Acces						
				s e-LA	AB Solutions \$	Suite. Loợ	g in, th	en clicl	k Set-up D
2	Hover over th	he Adm	ninistratic	on tab	and click Te	st Code	Маррі	ng.	
				All Activitie Ins Institution	Administration Company Configuration Laboratory Agent Configuration Users Change Password Change Password UOM Conversion Tag Master Download Alerts	Reports tion CAP #	*		
3	Use the map unmap.	ping filt	er(s) to er	nter se	earch criteria	to find th	ne test	code y	ou want to
3	Use the map unmap.	ping filt	er(s) to er	nter se	earch criteria	to find th	ie test	code y	rou want to
3	Use the map unmap.	ping filt	er(s) to er Reports	nter se	earch criteria	to find th	e test	code y	rou want to
3	Use the map unmap.	ninistration F	er(s) to er	nter se	CAP Mapping Code: Specimen Type:	Status: All CAP #: 4197601	ne test	Code y Test Code	rou want to
3	Use the map unmap.	pinistration r iption:	er(s) to er	on:	CAP Mapping Code: Specimen Type: Refresh CAP Test Code Uplo	Status: All CAP #: 4197601 add Mapped Elle	ne test	Test Code 4 Search Clear SUPLOAD T	rou want to e Mapping EST CODES
3	Use the map unmap.	ninistration F iption:	er(s) to er Reports CAP Test Description Lab Test Code: Ext CAP Mapping Code	on:	CAP Mapping Code: Specimen Type: Refresh CAP Test Code Uplo	Status: All CAP #: 4197601 ad Mapped File	DD TEST COD	Code y Test Code (Search Clear SUPLOAD T M Actions	rou want to e Mapping EST CODES
3	Use the map unmap.	ninistration F iption:	Reports CAP Test Description Lab Test Code: Ext CAP Mapping Code CAP123	on: portio_CSV CAPLIOM %	CAP Mapping Code: Specimen Type: Refresh CAP Test Code Uplo Lab Test Description Lab	Status: All CAP #: 4197601 ad Mapped File A Test Code Spec Type	DD TEST COD	Code y Test Code (1) Clear M Actions	rou want to e Mapping EST CODES
3	Use the map unmap.	ninistration F iption: CAP Program Description CGSS Y	Reports CAP Test Description Lab Test Code: CAP Mapping Code: CAP 123 CAP 426 CAP 426 CAP 425	on: portio_CSV CAPLIOM % nmol/L so(m)	CAP Mapping Code: Specimen Type: Refresh CAP Test Code Uplo	Status: All CAP #: 4197601 ad Mapped File A Test Code Spec Type	IDD TEST COD	Code y Test Code (Search Clear M Actions	rou want to e Mapping EST CODES
3	Use the map unmap.	Pping filt	Reports CAP Test Descriptin Lab Test Code: CAP 123 CAP123 CAP123 CAP123 CAP129 CAP1011	on: port to CSV CAPLIOM % nmol/L ng/nL	CAP Mapping Code: Specimen Type: Refresh CAP Test Code Uplo	Status: All CAP #: 4197601 ad Mapped File	DD TEST COD	Code y Test Code (Search Clear M Actions	rou want to e Mapping EST CODES
3	Use the map unmap.	ninistration F iption: CAP Program Description CGSS Y Y N	Reports CAP Test Description Lab Test Code: CAP 123 CAP123 CAP123 CAP123 CAP129 CAP1201	on: port to CSV CAPLIOM % nmol/L mg/L mg/L	CAP Mapping Code: Specimen Type: Refresh CAP Test Code Uplo	Status: All CAP #: 4197601 ad Mapped File	DD TEST COD	Code y Test Code (1) Clear M Actions	rou want to e Mapping EST CODES
3	Use the map unmap.	Pping filt	Reports CAP Test Descriptin Lab Test Code: CAP 123 CAP123 CAP123 CAP123 CAP1213	on: port to CSV CAPLIOM % nmol/L mg/L mg/L	CAP Mapping Code: Specimen Type: Refresh CAP Test Code Uplo	Status: All CAP #: 4197601 ad Mapped File	IDD TEST COD	Code y Test Code (1) Clear M Actions	rou want to e Mapping EST CODES
3	Use the map unmap.	CAP Program Description: CAP Program Description CGS5 Y Y Y Y Y	Reports CAP Test Description Lab Test Code: CAP 123 CAP123 CAP123 CAP123 CAP1213 CAP1213 CAP1415	on: port to CSV CAPLIOM % nmol/L ng/L ng/L nmol/L	CAP Mapping Code: Specimen Type: Refresh CAP Test Code Uplo	Status: All CAP #: 4197601 ad Mapped File	IDD TEST COD	Code y Test Code (1) Search Clear M Actions	rou want to e Mapping EST CODES
3	Use the map unmap.	CAP Program Description: CAP Program Description CGSS Y Y Y N Y Y N	Reports CAP Test Description Lab Test Code: CAP 123 CAP123 CAP123 CAP123 CAP123 CAP1213 CAP1213 CAP1213 CAP1415 CAP1617	on: port to CSV CAPLION % nmol/L ng/L nmol/L ng/L	CAP Mapping Code: Specimen Type: Refresh CAP Test Code Uplo	A to find the status:	DD TEST COD	Code y Test Code (1) Search Clear M Actions	rou want to



All Activitie	s Administration	Reports						Test Co	de Ma	pping
CAP Progr	ram Description:	CAP Test Description:		CAP Mapping Code:	Stat	us:	-			
		Amylase		C	(Ma)	#-	Ť			
Lab Test	Description:	Lab Test Code:		Specimen Type:	41	#: 97601	-	Clear		
		Export to C	sv i i	Refresh CAP Test Code	Upload Mapped Fil	ADD TE	ST CODES	UPLOAD	TEST O	CODES
CAP Test	CAP Program	n <u>CAP Mapping</u>	CAP	Lab Test Description	Lab Test Code	Specimen	Lab UOM	Actions		
Amylase	C	CAP123	U/L	AMYLASE (BKR)	12300358	Blood	U/L 5	Unmap	Edit	۹
Amylase	CZQ	CAP456	U/L	AMYLASE (BKR)	12300358	Blood	U/L	Unmap	Edit	۹
Amylase	FLD	CAP789	U/L	AMYLASE (BKR)	12300358	Blood	U/L	Unmap	Edit	۲
Amylase	U	CAP1011	U/L	AMYLASE (BKR)	12300358	Blood	U/L	Unmap	Edit	
*Data is	for illustrative p Yes .	ourposes only.							X	1



How to Edit Mapped Test Codes

Important: Editing a test code refers to unmapping and remapping the test code rather than editing the actual laboratory test code information.

Step	Instructions					
1	Go to cap.org and c Transmission.	lick Access e-LA	AB Solutions S	suite. Log ir	n, then click Set-	up Direct
2	Hover over the Adm	inistration tab a	and click Test	Code Map	ping.	
3	Use the mapping filt	All Activit In Institution	ies Administration Re Company Configuration Laboratory Agent Configuration Users Change Password UOM Conversion Tag Master Download Alerts	find the tes	t code you want Test Code Mappin	to unmap.
	Lab Test Description:	Lab Test Code:	Specimen Type:	CAP #: 1187201	Search Clear	
		Export to CSV	Refresh CAP Test Code Uploa	ad Mapped File ADD	TEST CODES UPLOAD TEST CODE	S
	CAP Test Description CAP Program	n <u>CAP Mapping</u> <u>CAP UOM</u> Code	Lab Test Description Lab	Test Code Specimer Type	Lab UOM Actions	
	% Inhibition CGS5	CAP123 %				
	11-deoxycortisol Y	CAP456 nmol/L			6	6
	11-deoxycortisol Y	CAP789 ng/mL			9	6
	17- N hydroxycorticosteroids	CAP1011 mg/L			•	6
	17- Y	CAP1213 ng/dL			6	C.
	17- Y	CAP1415 nmol/L			6	
	hydroxyprogesterone					
	17-ketosteroids N	CAP1617 mg/L				
	*Data is for illustrative purpo	oses only.				
		,				
4	Click Search .					



эp	Instruc	ctions								
	Click Edi	it.								
	All Activities	Administration	Reports						Test Code	Mapping
	CAP Program	Description:	CAP Test Description:		CAP Mapping Code:		Status: Mapped	•		
	Lab Test Desc	ription:	Lab Test Code:		Specimen Type:		CAP #: 1187201	•	Search	
			Export to	CSV R	efresh CAP Test Code	Upload Map	ed File ADD	TEST CODES	UPLOAD TE	ST CODES
	CAP Test Description	CAP Program Description	CAP Mapping Code *	CAP UOM	Lab Test Descripti	on Lab Test Co	de Specimo Type	^{an} Lab UOM	Actions	5
	Albumin	с	CAP123	g/dL	ALBUMIN (BKR)	12300243	Blood	g/dL	Unmap Ed	it 🔍
	Albumin	FLD	CAP456	g/dL	ALBUMIN (BKR)	12300243	Blood	g/dL	Unmap Ed	it 🔍
	Albumin	м	CAP789	g/dL	ALBUMIN (BKR)	12300243	Blood	g/dL	Unmap Ed	it 🔍
	Edit the I	aboratory	data as des Lab Test Code	sired	Specimen Type	Lab UO	M Actio	ons		
	6 ALBUM	IN (BKR)	12300243		Blood	g/dL	7 Save	e Cance		
	Click Sav	ve.								



Confirm Your Mapped Codes

The CAP strongly recommends that you confirm that the mapping is correct after you have finished mapping your laboratory's test codes to the CAP codes. To confirm your mappings, you must simulate a PT transmission by running the report in test mode. The following steps describe how to run the report in test mode.

Step	Instructions
1	Select a valid kit and specimen number from a prior PT activity that is past the due date but within 90 days. If you use a kit within 90 days, skip to step 4.
2	Log the PT specimen into your LIS using the kit and specimen ID numbers per your LIS ordering convention.
	<i>Important:</i> You only need to order and enter the results for one specimen for the PT you are confirming to verify your mapping.
3	Accession one specimen and run it for the analytes you want to test on the instrument.
4	Locate the PT extract report from your LIS report menu. The report will group all the PT information by the kit number that is unique to a CAP Mailing. You may need to contact your LIS resource that installed the report to obtain the report name.
5	Select and open the report as you do all other LIS reports.



6 Run the CAP PT extract report in test mode.

Once you open the report, you will be asked to enter report parameters based on your LIS, including your desired eight-digit kit number and the type of file, in this case, it is a test or validation file (see table below). A test or validation file will **not** post the resulted information to the CAP online result form. However, the data will be acknowledged by the CAP and processed where you are eligible to receive error notifications. You can use this to confirm test code mappings and other changes without impacting your online result form.

Test Mode Report Parameters Based on LIS						
	SCC Soft Sunquest Meditech Expanse/Cli Server/Magic					
CAP kit number parameter	it er KIT KITUID iter		KIT Number			
Test mode parameter	Enter "T" in the middle initial of the PT patient*	Change the default "Result Submission" to "TEST" in ENV	Change the default "L" to "T" in Environment			

*To transmit a test PT results file for Soft, you will need to adjust the patient demographic, instead a report parameter.

Note: For Meditech Expanse, Client Server, or Magic, you need to select a kit that was ordered within the last 90 days. If you select a kit that was ordered more than 90 days ago, you will need to create a new order for that kit.

For more details, refer to the Reports Installation guide.

7 Once you enter your report parameters, click **OK**, **Submit**, or **Run** to initiate the report to run the query and extract the information in a CSV file that will be placed in the pickup folder designated during setup, making it available for pickup.



8 You will receive an email that includes the analyte details and success or failure status for each. The email will be a summary of the data that you transmitted but provide the results for each test transmitted in the file.

Example email #1 (some failures):

From: noreplyuat@cap.org <noreplyuat@cap.org>
Sent: Thursday, December 13, 2018 2:02 PM
Subject: Direct Transmission Test Submission CAP#:XXXXXXX Kit#:30958092

Overall Status: Submission Date: 2018-12-13T14:01:55 Specimen: CHM-11 CAP #: XXXXXX Kit #: 30958092 Mailing: CC2018

Challenge	CAP Mapping Code	Response Value	Unit of Measure	Analyte	Result
1	CAP123	1.0	ng/mL	Digoxin	Successful
2	CAP456	70.00	mg/dL	LDL, calculated	Successful
3	CAP789	2.0	mmol/L	Lithium	CAP test code not defined for one (or a combination) of the following: Survey, CAP Mapping code or 2nd instrument.
4	CAP1011	250.	U/L	ALT (SGPT)	Successful
5	CAP1213	10.00	mg/dL	Calcium	Invalid qualifier
6	CAP1415	10.00	mg/dL	Calcium	Successful
7	CAP1516	100.	U/L	Amylase	Invalid length / precision of field
8	CAP1718	100.00	mg/dL	LDL, measured	Invalid specimen and analyte combination

If your message has invalid qualifiers or other failures, as in the example above, resolve the issues and resubmit until all challenges are successful.



Example email #2 (all results successful):

From: noreplyuat@cap.org <noreplyuat@cap.org>
Sent: Friday, January 25, 2019 9:16 AM
Subject: Direct Transmission Test Submission Successful CAP#:XXXXXXX Kit#:30037671

Overall Status: Successful Submission Date: 2019-01-25T

09:16:18 Specimen: CMQ-04 CAP #: XXXXXXX Kit #: 30037671 Mailing: CMQB2017

Challenge	CAP Mapping Code	Response Value	Unit Of Measure	Analyte	Result
1	CAP123	1.010		Specific gravity	Successful
2	CAP456	1.010		Specific gravity	Successful
3	CAP789	1.010		Specific gravity	Successful



How to Run the Report to in Live Mode to Transmit a PT Kit

Step	Instructions					
1	Find/create the PT patient.Search for the appropriate PT patient.If necessary, follow your laboratory's process for creating a PT patient.					
2	Enter the PT order. Enter the order as you normally would with the exception of the following PT-specific order entry parameters. The PT order parameters differ by LIS type. See the Standard Ordering Convention table.					
3	Run the PT	specimen(s).				
4	Locate the P	PT extract report from	your LIS report menu.			
5	Enter report the type of fi proficiency to result form.	parameters based on le; in this case, it is a esting result transmiss Live Mode Re	your LIS, including your de live file (see table below). A sion, where the results will eport Parameters Base	esired eight-digit kit number and A live file is an actual be posted to the CAP online d on LIS		
		SCC Soft	Sunquest	Meditech Expanse/Client Server/Magic		
	CAP kit number parameter	KIT	KITUID	KIT Number		
	Live mode parameterLeave middle initial of the PT patient blank*Leave the default Result "Submission" in ENVLeave the default "L" in Environment					
	*To submit a instead a rep	an active PT kit for SC port parameter.	C Soft, you will need to adj	ust the patient demographic,		



6 Run the Extract Report.

Once you enter your report parameters, click **OK**, **Submit**, or **Run** (depending on your LIS) to initiate the report to run the query and extract the information to a CSV file that will be placed in a specific location on your network, making it available for pickup.

You may run the report multiple times. The online result form will only update information that is new to the CAP based on the data most recently sent.

Note: Third instrument results for QCC programs cannot be directly transmitted to the CAP at this time. You must manually enter results for a third instrument online via e-LAB Solutions Suite.



Reviewing and Approving Results in e-LAB Solutions Suite

To review and approve your laboratory's PT results, wait at least 30 minutes until after running the extract report for your data to be available. Go to cap.org, click **Access e-LAB Solutions Suite**, log in, and click **Result Form Data Entry.**

On-time reporting of PT results remains the responsibility of the laboratory. Implementation of the technology still requires that laboratories ensure that results are populated correctly prior to approving and submitting to the CAP. Any results that did not transmit such as qualitative data, must be entered and reviewed per your normal process.

Important: Any data received by any means (fax, online entry, or direct transmission) after midnight Central Time (CST) of the due date on the result form will not be evaluated, resulting in a failure for all analytes included in the specific PT event.



Email Notifications

Who gets the email notifications?

When you completed the direct transmission enrollment form, you identified two contacts: the laboratory lead point of contact and the LIS coordinator/LIS manager. Both contacts will receive all system-generated email notifications. To make any changes to these contacts, call the CAP customer contact center.

What if I am a contact for email notifications, but I have not been receiving them?

Contact your IT/IS department to verify they are not being blocked by a security policy.



TROUBLESHOOTING

Overview

There are several scenarios that will require you to troubleshoot a problem and take corrective action. These scenarios are:

- Partial results made it to the CAP.
- Results file made it to the hub, but no results made it to the CAP.
- Results made it from the hub to the CAP but had errors.
- Results file did not make it to the hub.

You will know if a results file did not successfully reach the CAP because:

- 1. Your laboratory will not receive a successful mapping email as part of mapping confirmation.
- 2. Your laboratory contact will receive an error email when results file transferred to the CAP with errors.
- 3. Your result form is not populated or only partially populated.

When troubleshooting, check the result form in e-LAB Solutions Suite first, then work backwards to determine the problem and your course of action. Allow 30 minutes from submission before you check the result form. If you don't receive an error email and the result form is not populated, you must utilize the hub to determine the source of the problem.

Troubleshooting in the Hub

The hub provides a summary of transactions and their status. When you access the hub, you will see the Test Code Mapping page. To troubleshoot issues with transmissions, select the All Activities tab from the top menu. This dashboard of the hub provides a summary and the status of transmissions from the laboratory. It defaults to show transmissions sent that day for all laboratories a user is authorized to view.

Use Filters to Change the Dashboard View in the All Activities Tab

The All Activities tab allows users to view the state of transmissions, errors and delivered files. Filters can be used to change the dashboard view.

- Institution/Org: Select your specific laboratory from the drop-down menu.
- **Period:** Select a pre-defined timeframe from the drop-down menu.
- From: and To: Select a date range using the calendar icons.



COLLEGE of AMERICAN PATHOLOGISTS Laboratory Quality Solutions All Activities Administration	Reports	<u>a</u>	Welcome, <u>Mary Jon</u>	es Sion Out Help 🛄 Trans Activities
Institution/Org:	LIS Location ID:	CAP #:	LIS:	
Period: Today	From: To: 10/24/2018 10/24/2018	Last:	Tags:	Search Clear
Select Date Range Today	LIS Location ID LIS	<u>P</u> Available	<u>Pending Delivered</u>	<u>D Unprocessed Errors</u> Tag
Yesterday	No	Records Found!		
Last 7 days				
Last 30 days				
This Week				
Last Week				
This Month				

Check Transmission Status

The screen below shows the results file transmission status. Click the various fields to access additional information.

COLLEGE of PATHOLOGIS Laboratory Quality	AMERICAN ITS Solutions					Welcome,	<u>Sign Out</u> <u>Help</u> III Transfer
All Activities	Administration Reports						Activities
	Institution/Org:		LIS Location ID: CAP #:				LIS:
Period:	Select Date Range	From: 11/01/2019 To:	01/14/2020	Last: 0 🗘	Tags:		Search Clear
							UPLOAD PT RESULTS FILE
Institution/Org	<u>CAP #</u>	LIS Location ID	LIS	P	Available <u>Pe</u>	nding <u>Delivered D</u>	Unprocessed Errors Tags
ABC Hospital	e 1234567	Main Laboratory	EPIC	•			33 3 😁 d

- a. **Pending:** Files that have been sent from the agent to the hub but have not been sent to the CAP yet.
- b. **Delivered:** Files that have been successfully sent to the CAP and had no mapping errors on the hub.
- c. **P or D:** Click on the icon in the P (Pickup) or D (Delivery) columns to view the last time the hub tried to pick up or deliver a file.
- d. Errors: Files that contained file format or mapping errors when the hub processed them.
 - If there are mapping errors, a partial submission of the tests that have the correct mapping will be sent to the CAP.



• If a file has an error, it doesn't mean it failed to send results to the CAP. Egregious errors will halt the transmission (eg, missing kit number, kit number not eight digits, or missing CAP number).

Note: During troubleshooting, you won't typically click on the **#** in the **CAP #** column; however, clicking will show a list of files that were sent during a given time period, the original file received from the laboratory, and the transformed file that was delivered to the CAP.

To determine what errors have occurred in a file and find out how to correct them, follow the steps below.

Instructions					
Click the number in the Errors column in the row for your desired laboratory.					
COLLEGE of AMERICAN PATHOLOGISTS Levery Carly Saliens At Abbilities Pariodic Last 20 days Institution/Orgs: At v Pariodic Last 20 days Institution/Orgs: At v Pariodic Last 20 days Institution/Orgs: At v Pariodic Last 20 days Institution/Orgs: At v Institution/Orgs: At v Institutio	15 Location ID: From: 09(24)(2018 📋 To: 1022 135 Location 10	CAP #: L15: 2013 1 1 Lost 0 0 1 Inc. 1 Topic L15 2 Available	Welcome Starchers Sim Dat Hale Bower Activities Search Cear Beeding Deferred R Marcascool Errors Terr		
CAP Test Lalo 4107801	Main	Sunquest 0			
All the files with errors display.					
Click the number in the Attemp	ot column to	see specific errors	for a file.		
COLLEGT of AMERICAN PATHOLOGISTS Lawrang Quily Saltans All Activities Adventantation Segurity			Welcome, <u>Geodesis</u> Sint.Dot Hele 🚺 Toroby Activity Details		
LIS Location ID: CAP e: LIS: SOFT Interface Type: File Name: Free: 10/04/2018	Proficiency Testing Interface	Search Clear	< Bask To Activity Log		
File Name	Status	Received Delivered	Error Desc Attempt		
I 1312901.201810111318.TEST.csv	Error	10/11/2018 12:30:40 PM	Validation Error: Mapping or UOH error for test co 2		
E 1312901.201810091319.TEST.csv	Error	10/09/2018 12:30:54 PM	Validation Error: Mapping or UOM error for test co 1		
(ii) 1312901.201810081656.TEST.csv	Error	10/08/2018 04:00:46 PM	Validation Error: Mapping or UOM error for test co 1		
1312901.201810081547.TEST.csv	Error	10/08/2018 03:00:29 PM	Validation Error: Mapping or 1 UGM error for test. co 1		
1-4 of 4 records Records per page: 50			н с 1 э н		
Beautof Tree: Deartises Brook Praced Tree; Deartises Brook of Software Praced Tree; and be animaly in practice Software Deartise may contain researced Tree; for deglicate fire names.			Powered by Elkay		
	<text><complex-block></complex-block></text>	<text><image/><image/><text><text></text></text></text>	<text><complex-block><text><text><text><text></text></text></text></text></complex-block></text>		



Step	Instructions
	Additional details will display.
	COLLEGE of AMERICAN PATHOLOGISTS Laterary/CollyRefer A Another A Another Josephalem A Another Josephalem
	LIS Location ID: 1319201 Interface Type: Pullfuncy Yesting Interface LIS Name: CHOP LIS NAME: CH
	File Nome: 1312901.201809281726.TEST.cvv
	9/28/2018 4:31:45 PM Validation Error: Mapping or UOM error for test code/codes: BU, FTI, TSH, CTIBC. Please fix the issue and then re-send the file. Code is blank or invalid for tests: FTI, CTIBC File Contents:
	Optimize Optimize Software So
	<pre>chant variable**/dif*7; created from the conderse**/dif*7; created from the conderse***/dif*7; created from the conderse***/dif*7; created from the con</pre>
	a. Error Description: Existing errors
	b. Original: The data file that the hub received.
	c. Delivered: The transformed .xml file that was delivered to the CAP.
	<i>Note:</i> This will primarily by used by the CAP's customer contact center to help diagnosis issues.
	 If it is a mapping error, once you have fixed it you can resend the file directly from this page by clicking Resend File.
	<i>Note</i> : Even though there may be mapping errors for some analytes, a partial file of the ones that did map successfully is sent to the CAP. Also, due to the way laboratories order the tests (eg, panels), there may be tests sent in the file from the LIS that should not be sent to the CAP. These will show up as mapping errors but need no resolution by the laboratory. You can ignore this type of error once you have confirmed the mapping of a specific program.
3	Find your error(s) and review the recommended resolution(s) found in the <u>Mapping</u> <u>Validation Errors</u> or <u>Results File Rejected by the hub Errors</u> table(s).
	If you cannot determine how to correct an error(s), call the CAP customer contact center at 800-323-4040, +001-847-832-7000 option 1.



Mapping Validation Errors

Error Code	Error Message	Mapping Issue	Resolution
Not applicable	Validation Error: Mapping or unit of measure (UOM) error for test code/codes: {1}. Please fix the issue and then re-send the file.	File transferred to the hub with errors	There will be a list of laboratory test codes that have no mapping or there is an UOM conversion issue. For mapping errors, review each of the listed codes and map where needed. <i>Note:</i> Not all test codes that come across in the result file will have a mapping. For example, any tests that have qualitative responses will not be mapped and will always generate an error code.
			sure that the UOM on the mapping page matches the one on the incoming results file. If not, go back to mapping and correct the UOM to match the results file.
Not applicable	Quantitative tests missing on CAP submission email	Successful email but found mapping and/or UOM error(s) when verifying results	If there are quantitative tests associated with the kit that are not on the CAP email, log in to the hub and review the errors to see what issue arose.

Key: {0} = Field(s)

{1} = Test Code(s)



Results File Rejected by the hub Errors

Error Code	Error Message	Mapping Issue	Resolution
E-112	Invalid CAP Number	Results file rejected by the hub	Check the CAP number entered in the LIS. It must be a seven- digit number and match the number that was defined in the hub.
Not applicable	Validation Error: Invalid CSV format	Results file rejected by the hub	Most likely, the file doesn't have (pipes) between the required fields.
E-1000	Multiple Kits within the file	Results file rejected by the hub	More than one kit number is in the incoming file. Work with your LIS report writer to determine why more than one kit is being included in the report.
E-1002	Blank file	Results file rejected by the hub	Report generated a file with no data. Re-run the PT Extract Report.
E-1015	Kit # missing or invalid	Results file rejected by the hub	Review the kit # on the order in the LIS and verify it is an eight- digit number.
Not applicable	Validation Error: {0} is blank or invalid for tests: {1}	Results file rejected by the hub	Required field is missing or has some other issue. Need to review in the LIS.
Not applicable	Unexpected Error: Translation error occurred	Results file rejected by the hub	Call the CAP customer contact center at 800-323-4040, +001- 847-832-7000 option 1.
Not applicable	Validation Error: All analytes failed validation and/or mapping	No mapping exists for the kits mailing in the hub for tests in the file extracted from the LIS. No data sent to the CAP.	Check the mapping to be sure it has been done for this transmitted program.

Key: {0} = Field(s)

{1} = Test Code(s)



Error Emails with Fault Codes

Fault Code	Fault Description	Long Description	Next Steps	Email Message
102	Invalid username and/or password	Please validate that the user name and password received from the CAP	Call CAP customer contact center	For users transmitting PT results using Data Innovations Instrument Manager:
		for this service have been entered correctly in the CAP profile.		The username and/or password are incorrect. Verify that this information is entered correctly.
				For users transmitting PT results directly from their LIS:
				The hub connection to the CAP is failing to authenticate. Call the CAP customer contact center at 800-323-4040, +001-847-832-7000 option 1.
103	Laboratory not authorized	Your laboratory's CAP number is not authorized for direct transmission.	Call CAP customer contact center	The CAP is unable to receive PT results by direct transmission. Call the CAP customer contact center at 800-323-4040, +001- 847-832-7000 option 1.
104	Invalid CAP/Kit Combination	Validate that the kit number entered in the LIS during PT ordering matches the kit number on the result form.	Laboratory verification	An invalid kit number has been entered into the LIS when the order for PT was placed. Review the kit # provided on your printed result form and re-enter the correct number.
105	Invalid Kit/Specimen combination	Validate that the kit number and specimen ID entered in the LIS during PT ordering matches the result form and specimen label.	Laboratory verification	An invalid kit # and/or specimen ID has been entered in the LIS when the order for PT was placed. Review the kit # provided on your printed result form and on the specimen label for the correct specimen ID and re-enter the correct information in the LIS.
106	Kit too late	PT results submission is past the due date printed on the result form.	Laboratory verification	Submission of PT results is past the due date—transmitted results will not be evaluated. Review the printed result form and kit instructions for the due date.



Fault Code	Fault Description	Long Description	Next Steps	Email Message
111	Invalid survey	PT program being transmitted is not enabled for direct transmission. Please enter your results online in e-LAB Solutions Suite.	External LOINC spreadsheet	This program is not enabled for PT result reporting by direct transmission. Please enter results online in e-LAB Solutions Suite.
201	CAP test code not defined for one (or a combination) of the following: survey, CAP mapping code or 2nd instrument.	Validate that your LIS test code is mapped to the correct CAP mapping code.	Laboratory verification	Results were detected for an analyte for which there is no field(s) available on the result form. Verify that your test code is mapped to the appropriate CAP test code.
202	Invalid specimen and analyte combination	PT result for the analyte/specimen is being ignored because there is no field on the result form for this specimen.	Email warning to the laboratory; no action on their part.	The PT result value is not defined for the kit #—there is no field(s) available in result form data entry.
203	Invalid length / precision of field	The length and/or precision of the result do not fit into the program's result form.	Laboratory verification	A PT result value was transmitted that is out of the range defined in result form data entry. Validate the required whole number and decimal place for the impacted field on the result form.
204	Invalid unit of measure	The unit of measure embedded in the CAP mapping code does not match the result form unit of measure options,	PT operations	The UOM associated with the CAP test code does not match the UOM options on the result form. Call the CAP customer contact center at 800-323-4040, +001-847-832-7000 option 1.
205	Invalid qualifier	The qualifier ("<", ">") transmitted does not match what is expected on the result form.	An email warning to the laboratory, no action on their part.	The qualifier that was transmitted does not match what is required in result form data entry. For example, a "less than" value was used for a "greater than" value response.



Fault Code	Fault Description	Long Description	Next Steps	Email Message
212	Result Form for the Kit has already been approved.	Result form for the kit has already been approved. Please view the kit transaction history screen in e-LAB Solutions Suite, result form data entry, to see who approved the kit in your laboratory.	Laboratory verification	PT results have already been approved. Go to e-LAB Solutions Suite, result form data entry. Kit transaction history to see who approved the results.

Key: $\{0\}$ = Field(s)

{1} = Test Code(s)



Troubleshooting the Agent

Results File is not Transmitted to the Hub

The following table outlines possible issues and causes. Unless otherwise specified, you should contact your LIS administrator for help in resolving these issues.

Issue	Possible Problem/Potential Resolution
Report runs but no file is found in the pickup folder	 The appropriate CAP printer was not defined or no printer selected (SCC Soft LIS only).
	Report setup issues.
	 Security changed, not enabling access for the report to write to the pickup location
	 The file was moved by the agent; verify in the archive folder or the hub.
The report runs and the file is in the	• Verify that the agent is in a "Running" status.
appropriate folder, but it is not picked up and sent to the hub for	• Verify that the agent is running under the Admin credentials.
further processing	• Verify that the connection configuration has a status of "ON".
	• Verify that the connection configuration is pointed to the correct location.
	 Verify that the drive location is available and online to the network.
	 Verify that there are no security changes to access that folder path.
	• Verify that the files extension is CSV and matches the extension defined in the agent.
Extract file is empty	Verify kit number was entered correctly in the extract report and matches the kit for the CAP PT that was ordered in the LIS.



GLOSSARY OF TERMS

- 1. CAP number A unique, seven-digit identification number assigned to each laboratory.
- 2. **Specimen ID –** An alpha-numeric identification assigned to each specimen included in a PT kit (eg, CHM-01). This information can be found on the specimen label.
- 3. **Kit number –** A unique, eight-digit number assigned to each PT kit shipped from the CAP that can be found on the result form.
- Ordering convention A standardized way of entering CAP PT-related information into the LIS to start PT kit processing and begin the process of electronic transmission of results. Laboratories are required to enter their CAP number, kit number, and specimen ID in prescribed fields.
- 5. **PT extract report –** A report that you will run in your LIS to generate a CSV file containing PT results for a given PT kit. This file will be placed in your laboratory's designated pickup folder.
- 6. PT results file Output generated by the PT extract report that contains your PT results
- 7. **Test compendium report –** A report that you will run to query your LIS for a complete list of your laboratory's test codes, description, UOM, and specimen type. This report will be saved to a temporary location on your computer.
- 8. Hub A cloud-based interface providing secure PT data transfer between your laboratory's LIS and the CAP. When your PT results reach the hub, it will transform the file into a format that is recognizable to the CAP. Part of this transformation involves the translation of your laboratory's test codes to CAP codes. This type of interface connectivity is widely used in clinical laboratories to facilitate the exchange of clinical data between laboratories and physician office practices.
- 9. **Agent** A light-weight software application that transfers the CSV file containing PT results from the laboratory's local network to a cloud-based interface known as the hub.
- 10. **Network path** A designated location on your local server for the pickup folder that will receive the PT results file.
- 11. Laboratory test codes Each laboratory has its own code originating from instrumentation or the LIS to describe each test the laboratory performs. These test codes vary from laboratory to laboratory, for example, when testing for glucose, one laboratory system might issue results for "glu," another for "test 29," and another for "glucose, serum."
- 12. **CAP Codes –** A master list of standardized clinical laboratory test codes that correspond to a single PT result. Each CAP code encompasses information including the analyte being tested, the unit of measure of the test result, and the specimen matrix (eg, blood or urine).
- 13. **Test code mapping –** A setup step performed in the hub during which the laboratory matches the codes it uses to describe each test that it performs to the corresponding CAP codes. This ensures that each result transmitted to the CAP is accurately reported and captured on the result form in e-LAB Solutions Suite.



APPENDIX

Alternate Methods for Mapping CAP Codes

Method 2: Download the CAP mapping codes to spreadsheet and match to your laboratory's test codes

With this option, map codes in a CSV file and upload it to the hub.

*A CSV file is a data file format that allows for the transfer of data from one program/application to another. In the case of PT direct transmission, a CSV file allows for data transfer between your laboratory's LIS and the hub.

Step	Instructions	S						
1	Go to cap.org Transmissio	g and clic n .	k Access	e-LAB S	olutions Suite.	Log in, the	n click Se	et-up Direct
2	Hover over th	ne Admin	istration ta	b and cli	ck Test Code M	lapping.		
3	Click Export meeting the f	to CSV. ilter crite	<i>Note:</i> If you ria will be e _{Reports}	u used s exported.	orting feature to	filter the CA	AP codes	s, only the data
	CAP Program Descri	ption:	CAP Test Descrip	tion:	CAP Mapping Code:	Status:	*	
	Lab Test Description		Lab Test Code:	3 Keport to CSV	Specimen Type:	CAP #:		Search Clear
	CAP Test Description	CAP Program Description	CAP Mapping Code *	CAP UOM	Lab Test Description Lab	Test Code Speci Type	^{men} Lab UOM	Actions
	% Inhibition	CGS5	CAP123	%				٩
	11-deoxycortisol	Y	CAP456	nmol/L				۹
	11-deoxycortisol	Y	CAP789	ng/mL				۹
	17- hydroxycorticosteroids	Ν	CAP1011	mg/L				۹
	17- hydroxyprogesterone	Υ	CAP1213	ng/dL				۵
	17-	Y	CAP1415	nmol/L				۹
	*Data is for illustra	tive purpose	es only.					







5 Open the file in Excel and enter your laboratory's test description, test code, specimen type, and UOM into the corresponding LabTestDescription, LabTestCode, SpecimenType, and LABUOM columns.

After you've entered all your data, **save** the file.

Important:

Do not change (rename) the column headings.

Do **not** reorder the columns. The columns in your CSV file must **EXACTLY** match the column headings you see below. If your columns are different, the upload of mapped test codes will fail.

X		10.00	Contractor of the	Contraction of the	TestCod	eMap_03132018 - Mic	crosoft Excel	-	
۲	e Home Insert	Page Layout Formulas	Data Review View	v	_				
ľ	Aria	il - 10 - A		Wrap Text	General +		Normal	Bad	Good
Pas	te V Format Painter	х ц • 🖽 • 🖄 •		🗱 🔝 Merge & Center -	\$ - % , 30 -00	Conditional Format as Formatting * Table *	Neutral	Calculation	Check Cell
	Clipboard 12	Font	ra Aliç	anment 15	Number 15		Style	rs.	
	J34	• (* f _x				5			
1.54	A	В	С	D	E		G		Н
1	CAPTestDescription	CAPProgramDescription	CAPMappingCode*	CAPUOM	LabTestDescription	LabTestCode	SpecimenType	LABUO	N
2	Acetaminophen	C	CAP123	ug/mL	Acetaminophen	ACETM	BLOOD	ug/mL	
3	Acetaminophen	CZQ	CAP456	ug/mL	Acetaminophen	ACETM	BLOOD	ug/mL	
4	Acetaminophen	SDS	CAP789	ug/mL	Acetaminophen	ACETM	BLOOD	ug/mL	
5	Albumin	С	CAP1011		Albumin	ALB	BLOOD	g/dL	
6	Albumin Electrophor,g/	ELP	CAP1213	%					
7	Albumin Electrophor,g/	M	CAP1415	%					
8	Albumin Electrophor,g/	ELP	CAP1617	g/dL					
9	Albumin Electrophor,g/	M	CAP1819	g/dL					
10	Aldosterone/Renin Rati	Y	CAP2021	Ratio					
11	Alkaline phosphatase	FLD2	CAP2223						
12	Alkaline phosphatase	С	CAP2425	U/L	Alkaline Phosphatase	ALKP	BLOOD	U/L	

*Data is for illustrative purposes only.

Optional: You may delete any rows related to tests that are listed but your laboratory does not perform.

Note: You only have to map one instance of a CAP Mapping Code and the upload process will populate the code for all programs associated with that code.



	All Activities Adm	ninistration	Reports					Test Code Ma	ppin
	CAP Program Descri	ption:	CAP Test Descrip	tion:	CAP Mapping Code:	Status:	•		
	Lab Test Description	17	Lab Test Code:		Specimen Type:	CAP #:		Search	
				Export to CSV	Refresh CAP Test Code U	6 pload Mapped File	ADD TEST CODES	UPLOAD TEST	CODES
	CAP Test Description	CAP Program	CAP Mapping	CAP UOM	Lab Test Description La	b Test Code S	pecimen Lab UOM	Actions	
	% Inhibition	CGS5	CAP123	%		104 104	1pc		0
	11-deoxycortisol	Y	CAP345	nmol/L					6
	11-deoxycortisol	Y	CAP789	ng/mL					۹
	17- hydroxycorticosteroids	N	CAP1011	mg/L					•
	17- hydroxyprogesterone 17-	r v	CAP1213	ng/dL					
			CAP1413	nmol/L					
*Data is for il Click Bro	hydroxyprogesterone 17-ketosteroids Illustrative pui wse and	n rposes or select	capitilis capitiliz ily. the mapp	mg/L	/ file.				•
Data is for il Click Bro Upload CSV CSV File	hydroxyprogesterone 17-ketosteroids Illustrative pui bwse and ' File CAP #: 772 e Name: Choo • Only C • Only C	N rposes or select 201 se File No fi CSV file form	CAPIEI7 Ily. the mapp ile chosen nat is allowed to be:	ped CS	/ file.				9
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Data is for il Click Bro Upload CSV CSV File	hydroxyprogesterone 17-ketosteroids Illustrative pui bwse and ' File CAP #: 772 e Name: Choo CAP #: 772 e Name: Choo Only C Data f CAPT Labre Please autom Be sur 8 w I h	N rposes or Select 201 Se File No fi CSV file form format must estDescrip estCode, Sp e note that v hatically con re to review have read ar	CAPIFITS CAPIFITS CAPIFITS IN CAPIFITS CA	mmu/L mg/L Ded CS Ded CS DE DE DE D	/ file. tion, CAPMappingCo do not match and if o s to CAP UOM. Review ults Form Data Entry (de, CAPUOM, conversion facture the list of UOI (e-LAB Solution	LabTestDescr pr is available, v <u>A conversions</u> . s Suite).	iption, ve will	•



ep	Instru	ctions										
9	Click S the scr	ubmit . Y een as sł	ou'll see th nown below	e laborator ′.	y dat	a you maj	pped in t	he CS'	V file	on tl	ne ri	ght
		CAP Test Description	CAP Program Description	CAP Mapping Code*	CAP UOM	Lab Test Description	Lab Test Code	Specimen Type	Lab UOM	Actions	V.	
		Albumin	С	CAP123	g/dL	ALBUMIN (BKR)	12300243	Blood	g/dL	Unmap	Edit	0,
		Albumin	FLD	CAP456	g/dL	ALBUMIN (BKR)	12300243	Blood	g/dL	Unmap	Edit	۹
		Albumin	м	CAP789	g/dL	ALBUMIN (BKR)	12300243	Blood	g/dL	Unmap	Edit	٩
		CA 125	тм	CAP1011	U/mL	AMPHETAMINE/ME URINE (BKR)	THAMPHETAMINE	12300353	Urine, Unspecified Source	l E	Jnmap Edit	٩
		Glucose	AQI	CAP1213	mg/dL	GLUCOSE (BKR)	12301830	Serum	mg/dL	Unmap	Edit	0,
		Glucose	с	CAP1415	mg/dL	GLUCOSE (BKR)	12301830	Serum	mg/dL	Unmap	Edit	٩
		Glucose	CZQ	CAP1617	mg/dL	GLUCOSE (BKR)	12301830	Serum	mg/dL	Unmap	Edit	٩
		Glucose	FLD	CAP1819	mg/dL	GLUCOSE (BKR)	12301830	Serum	mg/dL	Unmap	Edit	Q
		Glucose	м	CAP2021	mg/dL	GLUCOSE (BKR)	12301830	Serum	ma/dL	Unmap	Edit	0

Method 3: Manually add and match your laboratory's test codes to CAP mapping codes in the hub.

Follow these steps to manually enter your laboratory's test codes and then map them to the CAP Test Codes.



Step			Instructi	on					
1	Go to cap.org and click Access e-LAB Solutions Suite. Log in, then click Set-up Direct Transmission.								
	Hover over the Ac	lministration tab a	nd click Tes t	t Code Mapping.					
	Click Add Test C	odes.							
	All Activities Administration	Reports		Tes	t Code Mapping				
	CAP Program Description:	CAP Test Description:	CAP Mapping Code:	Status: Unmapped +					
	Lab Test Description:	Lab Test Code:	Specimen Type:	CAP #:	Search				
		Export to CSV Refresh C	AP Test Code Upload Ma	pped File I ADD TEST CODES UP	OAD TEST CODES				
	CAP Test Description CAP Prog	ram <u>CAP</u> In <u>Mapping CAP UOM</u>	Lab Test Description Lab	Test Code Specimen Lab UOM Ad	tions				
	% Inhibition CGS5	Code* CAP123 %							
	11-deoxycortisol Y	CAP456 nmol/L			٩				
	11-deoxycortisol Y	CAP789 ng/mL			<u>Q</u>				
	hvdroxvcorticosteroids	CAP1U11 mg/L			W				
2	*Data is for illustrative pu Enter the Lab Tes	t Code, Lab Tes	t Descriptio	n, Specimen Type	e and Lab UOM for				
	each test you war	it to map to a CAI	P test code.						
	If you need addition	onal lines to enter	more codes	, click Add .					
	-								
	All Activities Administration Re	ports			Add Test Code				
	Add New Test Code(s)			CAP #: 1308200	Add				
	Lab Test Code	Lab Test Description	Specimen Type	Lab UOM					
		Chlorida	Serum	umol//					
	COAM	Contract and	Securi	men/dl	<u> </u>				
	COPM	Corticol PM	Serum	mcg/dL	8				
	COPE	COntractor	Serum	linite/l	×				
	СРК	CPK, Iotal	Serum	Units/L	8				
				3	Save Cancel				
0	Click Sava								