

DDF CPT CLI Tool User Guidev1.0

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Document History

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1. Overview

This is the documentation for the SDRtoCPT proof of concept (PoC).

The SDRtoCPT application is a command line interface (CLI) tool (referred to, below, as *CLI tool* or *tool*) that allows you to connect to a Study Definitions Repository (SDR), get data about a study, and write data from that study into variables in an electronic Clinical Protocol Template (eCPT) document.

2. Prerequisites

You must meet the following prerequisites to install and use the tool.

- Windows 10 or Windows 11
- A way to run CLI applications, such as the <u>cmd.exe</u>, <u>PowerShell</u>, or <u>Windows Terminal</u>
- Credentials and API token that provide access to an instance of a Study Definition Repository (SDR) using the <u>DDF SDR API</u>

The Tool includes in its executable all its dependencies, including .NET 7 and third-party packages, so you do not have to install any dependencies before using the tool.

3. Installation

The SDRtoCPT tool does not have an installer. The steps below describe how to make the tool available on your computer.

- 1. Download/copy to your computer the zip file for the build (named DDF-[Version] where [Version] is the build number). **Important:** After you download the file, ensure it is unblocked.
 - a. In Windows Explorer, find the zip file, right-click on it, and select Properties.
 - b. Check the **Unblock** checkbox. **Note:** If **Unblock** is not visible, the file is already unblocked. Proceed to the next step.
 - c. Select OK.
- 2. Extract the contents of the zip file.

You are now ready to use the tool.

3.1 Summary of Tool Artifacts

The package of artifacts for the tool is a zip archive with a name in the format **DDF-V.YY.MMDD.HHmm.zip** where:

- V = major version (0 for the PoC)
- YY = 2-digit year of the build
- MM = 2-digit month of the build
- DD = 2-digit day of the build
- HH = 2-digit hour of the build (on a 24-hour clock)
- mm = 2-digit minute of the build

Note: All date/time values are based on the date and time in universal coordinated time (UTC) when the build started.



The format described above is also the format for the version of the tool.

The package includes the following files.

- Data folder for sample data
 - **CPT_v9_SDR_test.docx** example eCPT document
 - sdrtocpt_test_study_api_v3.json example JSON file with SDR data for a study
- **Documentation** folder for documentation for the tool
 - DDF CPT CLI Tool User Guide.docx documentation for how to use the tool
- **SDRtoCPT.exe** executable file for the tool
- settings.json JSON file with configuration settings for the tool

3.2 Summary of Tool Capabilities

At a high level, the tool can do the following:

- Display information about its build version and current configuration.
- Display its current configuration settings.
- Open, read, parse, and get values for configured fields from a JSON file that has SDR-formatted data for a study.
- Connect to and authenticate with a Study Definition Repository (SDR) via the SDR API, get JSON data for a study, parse it, and get values for configured fields.
- Open an eCPT Microsoft Word (.docx) file, read the list of CPT variables configured in the document, get the list of content controls in the document, and write values from SDR data to content controls for configured CPT variables.

Except for writing to an eCPT document, all other functions of the tool are read-only and do not create, update, nor delete data.

4. Tool Commands

The tool has the following commands.

- **about** displays information about the tool.
- **config** displays the current configuration.
- **study** gets and displays study data and, optionally, writes the data to an eCPT document.

The **study** command has options that you use to specify tool behavior.

4.1 Run the Tool

To run the tool:

- 1. Open a shell, such as <u>cmd.exe</u>, <u>PowerShell</u>, or <u>Windows Terminal</u> in the folder that has **SDRtoCPT.exe**.
- 2. Type SDRtoCPT.exe, followed by the command and arguments that specify what you want the tool to do.
- 3. Press **Enter** to run the tool using the specified command and arguments.
- 4. When finished, you can close the shell by typing **Exit** and then pressing **Enter**.

When you run the tool with a command, the command must be the first thing after the executable, followed by any options you provide, as shown below.

The order of the options does not matter.



Tip: When you run the tool, you can omit the file extension (.exe) from the tool name. For brevity, the rest of the examples omit the file extension.

4.2 Get Tool Version

You can check the version of the tool by checking file properties or by running the tool.

To get the version from file properties:

- 1. Open Windows Explorer, right-click on **SDRtoCPT.exe**.
- 2. Select Properties.
- 3. Select Details.
- 4. View the value for **Product version**.

To get the version by running the tool:

- 1. Open a shell, such as <u>cmd.exe</u>, <u>PowerShell</u>, or <u>Windows Terminal</u> in the folder that has **SDRtoCPT.exe**.
- 2. Type the following and then press Enter.

SDRtoCPT.exe --version

The tool displays the version you are running, like below.

```
0.23.0724.1714-poc-uat
```

4.3 Get Tool Help

The tool has built-in documentation for the available commands and options.

To get information about the tool, type the following and then press **Enter**. To view that documentation, type the following and then press **Enter**.

SDRtoCPT --help

or

SDRtoCPT -h

When you use the help option (--help/-h) without a command, as shown above, the tool displays general help information, including a list of available commands. For example output from running the tool with only the **--help** option, see 7.1 Tool Help Example Output.

Use the help option (--help or -h-) with a command to get more detailed help for that command. For example, to get help for the study command (*4.6 Study Command*), type the following and press **Enter**.

SDRtoCPT study --help

4.4 About command

The **about** command provides information about the build and configuration settings for the tool. To use the **about** command, type the following and then press **Enter**.

SDRtoCPT about



When you use the **about** command, the tool displays information about the build version, copyright, and the versions of the CPT, SDR API, and USDM that the current configuration supports. For example output from the **about** command see *7.2 About Command Example Output*.

4.5 Config command

The **config** command displays the current configuration in the *settings.json* file. To use the **config** command, type the following and then press **Enter**.

```
SDRtoCPT config
```

When you use the **config** command, the tool reads the *settings.json* file and displays the current settings and their values. For example output from the **config** command see 7.3 Config Command Example Output.

4.6 Study Command

The **study** command reads SDR data, either from the SDR API or from a JSON file exported from an SDR, and, optionally, writes the data to content controls that represent variables in a CPT. When you use the **study** command, you supply options that tell the tool to get SDR data from either a JSON file or an SDR using the SDR API.

Note: Getting SDR data, whether from a file or using the API, is read-only. The tool will not write or change any data unless you supply a CPT document (4.6.3 Write Study Data to an eCPT Document).

4.6.1 Get Study Data from a File

To get SDR data from a file, you must supply the following options to the **study** command.

- --read-file path to a file that has JSON data in the same structure that the SDR API returns
- --study-id GUID identifier within the SDR for the study record

Note: You must supply a value for the **--study-id** option. The tool verifies that the file has data for the study with the ID you supply.

Below shows an example of using the **study** command to get data for a study with ID 71bfa56e-Ocfd-4633-86bf-3c4474d3ea9c from a file named sdrtocpt_test_study_api_v3.json.

```
SDRtoCPT study --read-file "sdrtocpt_test_study_api_v3.json" --study-id 71bfa56e-0cfd-4633-86b
f-3c4474d3ea9c
```

For example output from the command above see 7.4 Study Command Example Study File Data Output.

In the example above, the JSON file is in the same location as the tool. If the file is in another location, you must supply a full path or path that is relative to the location of the tool. The first example, below, shows supplying a relative path to a file that is in a directory below the directory that has the tool.

```
SDRtoCPT study --read-file "sub-directory\sdrtocpt_test_study_api_v3.json" --study-id 71bfa56e
-0cfd-4633-86bf-3c4474d3ea9c --cpt-file "CPT_v9_SDR_test.docx"
```

The second example, below, shows supplying a full path to the file.

```
SDRtoCPT study --read-file "c:\my data folder\sdrtocpt_test_study_api_v3.json" --study-id 71bf
a56e-0cfd-4633-86bf-3c4474d3ea9c --cpt-file "CPT_v9_SDR_test.docx"
```



Tip: Enclose file paths in quotation marks to ensure the tool reads them correctly when they have spaces in them.

4.6.2 Get Study Data from the SDR API

To get SDR data from an SDR, you use the **study** command with options that specify to use the SDR API. To get data from an SDR using the SDR API, you must omit the **--read-file** and supply the following options.

- --api Boolean flag that is false by default and true when you include it with the study command.
- --study-id GUID identifier in the SDR for the study record
- --certificate path to the (.pfx) file with the certificate for your organization that is registered with the SDR instance that you are getting data from
- --certificate-password password for the certificate
- --token temporary API access token

Important: For information about the certificate and token, see the <u>Study Definition Repository</u> (SDR) Reference Implementation (RI) SDR API User Guide.

```
SDRtoCPT study --api --study-id 71bfa56e-0cfd-4633-86bf-3c4474d3ea9c --certificate "<certifica
te-file-name>.pfx" --certificate-password "<certificate-password>" --token "<token-from-sdr>"
```

For example output from the command above see 7.5 Study Command Example Study API Data Output.

Tip: Use variables to store and supply values that you do not want to display on the command line, such as the certificate password and token. For information about setting a variable at the command line, see <u>set (environment variable)</u>.

The code below shows an example of getting data from an SDR using the API by supplying values for the --certificate-password and --token options with variables named certpwd and token, respectively.

```
SDRtoCPT study --api --study-id 71bfa56e-0cfd-4633-86bf-3c4474d3ea9c --certificate "arborsys.p
fx" --certificate-password %certpwd% --token %token%
```

Note: The tool builds the API URL from the configuration settings in the *settings.json* file. You can view those settings using the config command (*4.5 Config command*).

4.6.3 Write Study Data to an eCPT Document

To write data to a CPT document (Microsoft Word .docx file), you use the **study** command to <u>get data</u>, either from a file or SDR using the API, and supply the **--cpt-file** option with a path to the CPT document to which to write. Below shows an example of using the **study** command to get data for a study with ID 71bfa56e-0cfd-4633-86bf-3c4474d3ea9c from a file named sdrtocpt_test_study_api_v3.json and writing the data to a CPT document named CPT_v9_SDR_test.docx.

```
SDRtoCPT study --read-file "sdrtocpt_test_study_api_v3.json" --study-id 71bfa56e-0cfd-4633-86b
f-3c4474d3ea9c --cpt-file "CPT_v9_SDR_test.docx"
```



For an example of output from the above command, see 7.6 Study Command Example eCPT Writing Output (p 12). For an example of the eCPT after running the above command, see 7.7 Study Command Example eCPT Document.

5. Proof of Concept Scope and Limitations

The scope of the tool is a proof of concept to demonstrate automating getting SDR data, mapping it to CPT variables, and writing that data to content controls in an eCPT document. See *3.2 Summary of Tool Capabilities* for information about the in-scope functionality of the tool. As a proof of concept, the tool is not an end-to-end solution and has some limitations, including the following.

- The tool does not create content controls. If a content control for a mapped CPT variable does not exist in the content of the specified eCPT document, the tool has nowhere to which to write a value for the variable and the value does not get written to the document.
- The tool does not delete content controls. If more instances of content controls exist for a repeating variable (for example, objectives, endpoints, regulatory agency ID, or regulatory agency number) than there are values for the variable in the SDR data, the tool writes to only the number of content controls for which there are values and leaves the additional content controls. For example, if an eCPT document has four primary objective content controls and the SDR data has two primary objectives, then the tool writes the values to the first two primary objective content controls.
- Logging is not configurable and the tool writes log messages only to the console. You cannot change the logging level nor target of logging.

6. Troubleshoot

The list below describes common scenarios in which you may get unexpected results and how to troubleshoot them.

- Unable to get study. Response status code: Unauthorized This usually indicates that you supplied an invalid or expired token. Getting a new token and supplying the new value with the --token option usually resolves this.
- Error: Invalid file path. The specified path was: <path supplied> When getting data from a file, this indicates that the application could not find the file that you supplied with the --read-file option. Verify the path to the file and try again.
- Could not find study ID studyid at JSON path \$.studyDetails.studyId from <file-path> - This indicates that the JSON file you supplied does not have the value you supplied for --study-id at the path that is set in the settings.json file. Verify the ID for the study you expect and/or supply a JSON file that has data for the study with the ID.
- Error getting variables configured in <filename> This error is usually following in the log with an exception message that indicates that the eCPT file cannot be accessed because it is in use. Make sure that you do not have the document open and try again.



7. Appendix

This section shows example output from the commands and options shown in the documentation above.

7.1 Tool Help Example Output

The example below shows output from running the tool with only the --help option (4.3 Get Tool Help).



7.2 About Command Example Output

The example below shows output from the **about** command (4.4 About command).



7.3 Config Command Example Output

The example below shows output from the **config** command (4.5 Config command).





7.4 Study Command Example Study File Data Output

The example below shows output from the **study** command getting study data from a file (4.6.1 Get Study Data from a File).

	_	
C:\Users info: SD	<pre>\ray\Downloads\2023-07-24 DDF SDRtoCPT U RtoCPT.Commands.StudyCommand[0] udy: Start of command</pre>	AT\test>5DHtoCPT studyread-file *sdrtocpt_test_study_api_v3.json*study-id 71bfa56e-0cfd=0633-86bf-3c0W7063ea9c
		a56e-0cf6-4633-860F-3CW7943Jea0c from 'sdrtocpt.test_study.api_v3.json'
st info: SD	udy: Mapping SDR fields to CPT variables RtoCPT.Commands.StudyCommand[0]	
		field values mapped to them, and, if a CPT document is available, the content controls for the variables.
Order	Variable CPT:Acronym	Value K00-KC-L22T
2	CPT:AmendmentNumber	1
3		-
	CPT:ApprovalDate	
4	CPT:ArmDescription	Placebo Active Substance
		Active Substance
5	CPT:ArnName	Placebo
		Xanoweline Kok Dose Xanoweline Kich Dose
6	CPT:ArnType	Placebo Comparator Arm Active Comparator Arm
		Active Comparator Arm
7	CPT:ConditionDisease	Alzheimer's disease and Alzheimer's disease
8	CPT:InterventionDescription	Intervention 1
		Intervention 2
		Intervention 3
9	CPT:InterventionModel	Parallel Group
10	CPT:NumberofArms	3 · · · ·
11	CPT:NumberofParticipants	300
12	CPT:PlannedMaximumAgeofSubjects	100 years
13	CPT:PlannedMinimumAgeofSubjects	56 years
14	CPT:PopulationsForAnalyses	Population 1
15	CPT:PrimaryPurpose	Treatent
16	CPT:ProtocolID	H20-HC-L22T
17	CPT:ProtocolShortTitle	Xanomeline (1/246788)
18	CPT:ProtocolTitle	Safety and Efficacy of the Xanomeline Transdermal Therapeutic System (TTS) in Patients with Mild to Moderate Alzheimer\'s Disease
19	CPT:RegulatoryAgencyID	Eudract NCT
20	CPT:RegulatoryAgencyNumber	EudraCT123456
		NCT789
21	CPT:ScientificRationaleforStudyDesign	The discontinuation rate associated with this oral dosing regimen mas 50.0% in previous studies, and alternative clinical strategies have been sought to improve tolerance for the compound. To that end, development of a Transdormal Therapeutic System (TTS) has been initiated.
22	CPT:Sexofparticipants	Male or Female
23	CPT:SponsorLegalAddress	line2, city, district, state, postalCode, country
24	CPT:SponsorName	ELI LILLY
25	CPT:StudyPhase	Phase 2
26	CPT:StudyRationale	
		The discontinuation rate associated with this oral dosign regimen was 80.04 in previous studies, and alternative clinical strategies have been sought to improve tolerance for the compound. To that end, development of a Transdormal Therapeutic System (TTS) has been initiated.
27	CPT:VersionNumber	1
28	CPT:ObjectivesPrimary	To disterior if there is a statistically significant relationship (evenil type 1 error rate, sighué-86 botteen be change in bott the 860-ros (31) and CTBICs seares, and deng dome (0, bb cm2 [dH mp], and 75 cm2 [sH mp]). To document the starty profile of the samewhile rate.
29	CPT:EndpointsPrimary	Alzheimer\'s Disease Assessment Scale - Cognitive Subscale, total of 11 items [AMA-Cog (11)] at Week 2N
		[ADAS-Cog [11]] at Week 20 Video-referenced Clinician's Interview-based Impression of Change (CIBIC+) at
		Week 24
		Adverse events Vital signs (weight, standing and supine blood pressure, heart rate)
		Laboratory evaluations (Change from Baseline)
30	CPT:ObjectivesSecondary	To assess the dose-dependent improvement in behavior. Improved scores on the Revised heuropsychiatric inventory (NHI-s) will indicate improvement in these areas.
31	CPT:EndpointsSecondary	Alzhváser)'s Disease Assessment Scale - Cognitive Subscale, total of 11 items [AdAr-Cog (11)] at Meeks a and 16
		Video-referenced Clinician\'s Interview-based Impression of Change (CIBIC+) at Weeks 8 and 16
		Mean Revised Neuropsychiatric Inventory (NPI-X) from Week 4 to Week 24
info: SDF	RtoCPT.Commands.StudyCommand[0]	
sti	ady: End of command	



7.5 Study Command Example Study API Data Output

The example below shows output from the **study** command getting study data from an SDR using the API (*4.6.2 Get Study Data from the SDR API*).

info: SD	RtoCPT.Commands.StudyCommand[0]	
info: SD st	udy: Start of command RtoCPT.Commands.StudyCommand[0] udy: Getting data for study with ID 71bf	a56e-0cfd-4633-86bf-3c4474d3ea9c from 'https://apim-sdr-demo-eastus.azure-api.net/api/v3/studydefinitions/71bfa56e-9cfd-4633-86bf-3c4474d3ea9c/studydesions/ecot
st	udy: Mapping SDR fields to CPT variables	a56=-0cfd=4633=86bf=3c4474d3e89c from 'https://apim=sd=-demo-eastus.azure-api.net/api/v3/studydefinitions/71bfa56e=0cfd=4633=86bf=3c4474d3e89c/studydesigns/ecpt
st	RtoCPT.Commands.StudyCommand[8] udy: Getting SDR values e below shows the CPT variables the SDR	field values mapped to them, and, if a CPT document is available, the content controls for the variables.
Order		Value
1	CPT:Acronym	H2Q-MC-L2ZT
2	CPT:AmendmentNumber	1
3	CPT:ApprovalDate	2665-61-01
4	CPT:ArmDescription	Placebo Active Substance
		Active Substance
5	CPT : ArmName	Placebo
		Xanomeline Low Dose
		Xanomeline High Dose
6	CPT:ArmType	Placebo Comparator Arm
		Active Comparator Arm
		Active Comparator Arm
7	CPT:ConditionDisease	Alzheimer's disease and Alzheimer's disease
8	CPT:InterventionDescription	Intervention 1
		Intervention 2
		Intervention 3
9	CPT:InterventionModel	Parallel Group
10	CPT:NumberofArms	3
11	CPT:NumberofParticipants	360
12	CPT:PlannedMaximumAgeofSubjects	100 years
13	CPT:PlannedMinimumAgeofSubjects	50 years
14	CPT:PopulationsForAnalyses	Population 1
15	CPT:PrimaryPurpose	Treatment
16	CPT:ProtocolID	H2Q-HC-L22T
17	CPT:ProtocolShortTitle	Xanomeline (LY246708)
18	CPT:ProtocolTitle	Safety and Efficacy of the Xanomeline Transdermal Therapeutic System (TTS) in Patients with Mild to Moderate Alzheimer\'s Disease
19	CPT:RegulatoryAgencyID	EudraCT
19	CP1:RegulatoryAgency10	
20	CPT:RegulatoryAgencyNumber	EudraC1123456
		кстиву
21	CPT:ScientificRationaleforStudyDesign	The discontinuation rate associated with this oral dosino regimen was 58.6% in previous studies, and alternative clinical strategies have been sought to
		The discontinuation rate associated with this oral dosing regimen was 58.0% in previous studies, and alternative clinical strategies have been sought to improve tolerance for the compound. To that end, development of a Transdermal Therapeutic System (TTS) has been initiated.
22	CPT:Sexofparticipants	Male or Female
23	CPT:SponsorLegalAddress	line2, city, district, state, postalCode, country
24	CPT:SponsorName	ELi Lilly
~	COT : Chudu Dhaire	Alua S
25	CPT:StudyPhase	Phase 2
26	CPT:StudyRationale	The discontinuation rate associated with this oral dosing regimen was 58.6% in previous studies, and alternative clinical strategies have been sought to improve tolerance for the compound. To that end, development of a Transdermal Therapeutic System (TTS) has been initiated.
27	CPT:VersionNumber	1
28	CPT:ObjectivesPrimary	To determine if there is a statistically significant relationship (overall Type 1 error
		rate, alpha=8.05) between the change in both the ADAS-Cog (11) and CIBIC+ scores, and drug dose (0, 50 cm2 [54 mg], and 75 cm2 [81 mg]).
		To document the safety profile of the xanomeline TTS.
29	CPT:EndpointsPrimary	Alzheimer\'s Disease Assessment Scale - Cognitive Subscale, total of 11 items [ADAS-Cop (11)] at Week 20
		Video-referenced Clinician's Interview-based Impression of Change (CIBIC+) at
		Meek 20 Adverse events
		Vital signs (weight, standing and supine blood pressure, heart rate)
		Laboratory evaluations (Change from Baseline)
30	CPT:ObjectivesSecondary	To assess the dose-dependent improvement in behavior. Improved scores on the Revised Neuropsychiatric Inventory (MPL-X) will indicate improvement in these
		neviseo neuropsychiatric inventory (mri-A) miti inditate improvement in these äřeas.



7.6 Study Command Example eCPT Writing Output

The example below shows output from the **study** command getting study data from a file and writing data to an eCPT document.

study: Ge info: SDRtoCPT.	Lormand StudyCommand[0] .Commands.StudyCommand[0] etting data for study with 10 71bfa8 .Commands.StudyCommand[0] apping SDR fields to CPT variables .Commands.StudyCommand[0]	56e-0cfd-0633-860f-3cur70dlex8c from 'sdrtscpt_test_study_api_v3.jion'	
info: SDRtoCPT. study: Ma info: SDRtoCPT. study: Ge	.Commands.StudyCommand[0] apping SDR fields to CPT variables .Commands.StudyCommand[0]		
study: Ge			
info: SDRtoCPT. study: Ge	etting SDR values .Commands.StudyCommand[0] etting variables and content control	is in "CPT.ys_DOR_test deer" Firld values mapped to them, and the content controls for the variables.	
The table below Order Varia		Field values mapped to them, and the content controls for the variables.	Content Controls
		Value H2Q=HC=L22T	CPT:Acronym
2 CPT:A	AmendmentNumber		CPT:AmendmentNumber
		2000-01-01	CPT:ApprovalDate
		Placebo	CPT:ArmDescription[1]
4 071.4		Active Substance	CPT:ArmDescription[2]
		Active Substance	CPT:ArmDescription[3]
5 CPT:A	Агинале	Placebo	CPT:ArmName[1]
		Xanomeline Low Dose Xanomeline High Dose	CPT:ArmName[2] CPT:ArmName[3]
6 CPT:A		Placebo Comparator Arm Active Comparator Arm	CPT:ArmType[1] CPT:ArmType[2]
		Active Comparator Arm	CPT:ArmType[3]
7 CPT:C	ConditionDisease	Alzheimer's disease and Alzheimer's disease	CPT:ConditionDisease
8 CPT:I	InterventionDescription		CPT:InterventionDescription[1]
			CPT:InterventionDescription[2]
9 CPT:I		Intervention 3 Parallel Group	CPT:InterventionDescription[3]
			CPT:NumberofArms
11 CPT:N	NumberofParticipants		CPT:NumberofParticipants
12 CPT:P	PlannedMaximumAgeofSubjects	100 years	CPT:PlannedMaximumAgeofSubjects
13 CPT:P	PlannedMinimunAgeofSubjects	58 years	CPT:PlannedMinimumAgeofSubjects
14 CPT:P	PopulationsForAnalyses	Population 1	CPT:PopulationsForAnalyses
15 CPT:P	PrimaryPurpose	Treatment	CPT:PrinaryPurpose
16 CPT:P	ProtocolID	H2Q-HC-L2ZT	CPT:ProtocolID
17 CPT:P	ProtocolShortTitle	Xanomeline (LY246708)	CPT:ProtocolShortTitle
18 CPT:P	ProtocolTitle	Safety and Efficacy of the Xanomeline Transdermal Therapeutic System (TTS) in Patients with Hild to Moderate Alzheimer\'s Disease	CPT:ProtocolTitle
19 CPT:R		Eudract NCT	CPT:RegulatoryAgencyID[1] CPT:RegulatoryAgencyID[2]
20 CPT:R	RegulatoryAgencyNumber	EudraCT123456	CPT:RegulatoryAgencyNumber[1]
			CPT:RegulatoryAgencyNumber[2]
21 CPT:S	ScientificRationaleforStudyDesign	The discontinuation rate associated with this oral dosing regimen was 58.0% in previous studies, and alternative Clinical strategies have been sought to improve tolerance for the compound. To that end, development of a Transdermal Therapectic System (TTS) has been initiated.	CPT:ScientificRationaleforStudyDesign
		Therapeutic System (TTS) has been initiated.	
22 CPT:S	Sexofparticipants	Male or Female	CPT:Sexofparticipants
23 CPT:S	SponsorLegalAddress	lime2, city, district, state, postalCode, country	CPT:SponsorLegalAddress
24 CPT:5	SponsorName	Eli Lilly	CPT:SponsorName
25 CPT:S		Phase 2	CPT:StudyPhase
26 CPT:S	StudyRationale	The discontinuation rate associated with this oral dosing regimen was 58.6% in previous studies, and alternative Clinical strategies have been sought to improve tolerance for the compound. To that end, development of a Transdermal Thrangement(system (TTS) has been initiated.	CPT:StudyRationale
27 CPT:V			CPT:VersionNumber
		To determine if there is a statistically significant relationship (overall Type 1 error	CPT:ObjectivesPrimary[1]K
all CP1.0		To determin if there is a statistically significant relationship (seven1 Type 1 error trat, alphane 80; between the charge in both the AdSC-cog (11) and CIBIC seven, and drug does (6, 80 ez] (6 mg), and 75 ezg (8 mg)).	CPT:ObjectivesPrimary[2]K
29 CPT:E		Alzhejmer\'s Diseasesment Scale - Cognitive Subscale, total of 11 items [AMAS-Cog (11]] at Week 20	CPT:EndpointsPrimary[1:1]K
		[ADAS-Cog (11)] at Week 24 Video-referenced Clinician's Interview-based Impression of Change (CIBIC+) at	CPT:EndpointsPrimary[1:2]K
		Week 24	CPT:EndpointsPrimary[2:1]K
		Adverse events Vital signs (weight, standing and supine blood pressure, heart rate)	CPT:EndpointsPrimary[2:2]K CPT:EndpointsPrimary[2:3]K
		Laboratory evaluations (Change from Baseline)	
30 CPT:0	DbjectivesSecondary	To assess the dose-dependent improvement in behavior. Improved scores on the Revised Neuropsychiatric Inventory (NPI-X) will indicate improvement in these areas.	CPT:ObjectivesSecondary[1]
31 CPT:E	EndpointsSecondary	Alzheimer\'s Disease Assessment Scale - Cognitive Subscale, total of 11 items	CPT:EndpointsSecondary[1:1]
		Altheimer's Disease Assessment Scale - Cognitive Subscale, total of 11 items [ADAS-Gog (11)] at Weeks B and 16 Video-referenced Clinician's Intraview-based Impression of Change (CIBIC+) at	CPT:EndpointsSecondary[1:2]
		Weeks 8 and 16	CPT:EndpointsSecondary[1:3]
		Mean Revised Neuropsychiatric Inventory (NPI-X) from Week 4 to Week 24	
info: SDRtoCPT. study: Mr	Commands.StudyCommand[0] riting to 'CPT_V9_SDR_test.docx' Commands.StudyCommand[0]		
info: SDRtoCPT.	Commands.StudyCommand[0]		



7.7 Study Command Example eCPT Document

The examples below show an eCPT document before and after using the **study** command to write to it (4.6.3 Write Study Data to an eCPT Document). In each example, the left side shows the document content before running the tool and the right side shows the document after writing to it using the tool.

- -

The example below shows the start of the title page content.

	Title Page	1		Title Page	
Protocol Tit			Protocol Titl	8	
A(n) [interve investigate [h compared wi	er inton model] [primary purpose], [study phase], [blinding] [number]-arm study to salih measurement/outcome] with [investigational intervention] [intervention form] h [investigational intervention] [intervention form] in Male or Female participants of age with [condition divease]		Safety and Et Mild to Mode	er finscy of the Xanomeline Transdermal Therapeutic System (TTS) in Patients v rate Alzheimer's Disease aber: H2Q-MC-LZZT	rith
Protocol Nu	mber: [protocol number]	2	Amendment	Number: 1	
Amendment	Number: [amendment number]	<u> </u>	Condition/D	isease: Alzheimer's disease and Alzheimer's disease	
Condition/D	isease: [condition/disease]		Compound:	[number or name]	
Compound:	[number or name]	- -	Brief Title:		
Brief Title:		<u>+</u>	Xanomeline (LY246708)	
brief title			Study Phase	Phase 2	
Study Phase	: [study phase]		[Acronym]: H	I2Q-MC-LZZT	
[Acronym]: a	cronym		Sponsor Nat	ne: Eli Lilly	
Sponsor Nat	ne: insert sponsor name	:	Legal Regist	ered Address: line2, city, district, state, postalCode, country	
Legal Regist	ered Address: Enter legal Address			Model: Parallel Group	
Intervention	Model: [intervention model]		Number of A		
Number of A	Arms: [number]	:		articipants: 300	
Number of F	Participants: [X]	i i		ximum Age of Subjects: 100 years imum Age of Subjects: 50 years	
Planned Ma	ximum Age of Subjects: [X]	1		pose: Treatment	
	imum Age of Subjects: [18]			•	
Primary Pu	pose: [primary purpose]	6		Agency Identifier Number(s):	
Regulatory /	Agency Identifier Number(s):		Registry	ID	
Registry	D		EudraCT	EudraCT123456	
Enter	Enter Regulatory Agency Number	-	NCT	NCT789	
Registry Name			Enter Registry Name	Enter Regulatory Agency Number	



The example below shows the next page of the title page content.

CONFIDEN	TIAL Protocol (protocol num	ber] [version number and/or identifier	CONFIDENTIAL	Protocol H2Q-MC-LZZT
Enter Registry Name	Enter Regulatory Agency Number		Sex of Participants: Male or Female	
Enter Registry Name	Enter Regulatory Agency Number		[Pediatric Investigational Plan Number] Enter Pediatric Investigational Plan Number Approval Date: 2006-01-01	
Sex of Partic	icipants: Female		Sponsor Signatory:	
Enter Pediatr	nvestigational Plan Number] tric Investigational Plan Number Date: Enter Approval Date		[Name] [Title]	Date
Sponsor Sig	matory:		Click here to enter text. Click here to enter text.	
[Name] [Title]		Date		
Click here to	e to enter text. o enter text.			

The example below shows the start of the *Protocol Summary* section.

1. P	rotocol Summary			1. P	rotocol Summary	
1.1. S	ynopsis			1.1. S	ynopsis	
Protocol Tit	le:			Protocol Tit		
investigate []	ealth measurement/outcome]	2], [study phase], [blinding] [number]-arm study to with [investigational intervention] [intervention forn 1] [intervention form] in Male or Female participant	1		fficacy of the Xanomeline Transder erate Alzheimer\'s Disease	mal Therapeutic System (TTS) in Patients wit
[X to X years	of age] with [condition/disea	se]		Brief Title:		
Brief Title:				Xanomeline		
brief title					Agency Identifier Number(s):	
Regulatory .	Agency Identifier Number(s)	:		Registry	ID	
Registry	ID			EudraCT	EudraCT123456	
Enter	Enter Regulatory Agency	Number		NCT	NCT789	
Registry Name				Enter Registry Name	Enter Regulatory Agency Num	ber
Enter Registry Name Enter	Enter Regulatory Agency			1	ic Investigational Plan Number	
Enter Registry Name	Enter Regulatory Agency	Number		Rationale: Enter Ration	-	
					Endpoints, and Estimands:	
Enter Pediatr	ic Investigational Plan Numbe	r			Objectives	Endpoints
Rationale: Enter Ration:	-1-			Primary		
	Endpoints, and Estimands:		_	sign	etermine if there is a statistically ificant relationship (overall Type or rate. alpha=0.05) between the	Alzheimer\'s Disease Assessment Scale - Cognitive Subscale, total of 11 items [ADAS
	Objectives	Endpoints		char	ge in both the ADAS-Cog (11)	Cog (11)] at Week 24
Primary					CIBIC+ scores, and drug dose (0, m2 [54 mg], and 75 cm2 [81	Video-referenced Clinician's Interview-base Impression of Change (CIBIC+) at Week 24
 Print 	ary objective 1	 Primary endpoint 1.1 		mg]).	 Primary endpoint 1.3
		 Primary endpoint 1.2 				 Primary endpoint 1.4
		 Primary endpoint 1.3 				



The example below shows the second page of the *Protocol Summary* section.

	Primary endpoint 1.4	To document the	safety profile of the
Primary objective 2	Primary endpoint 2.1	xanomeline TTS.	
	 Primary endpoint 2.2 		blood pressure, heart rate)
	 Primary endpoint 2.3 		Laboratory evaluations (Change from
	 Primary endpoint 2.4 		Baseline)
Secondary			 Primary endpoint 2.4
·	•	Secondary	
-		•	•
Overall Design:		Overall Design:	
This study design includes [masking] mask	ing.	This study design include:	s [masking] masking
Brief Summary:		Brief Summary:	[
Enter Brief Summary		Enter Brief Summar	v
Number of Participants:			
		Number of Participants:	
Study Arms and Duration:		Study Arms and Duratio	
Enter Intervention Groups and Duration		Enter Intervention Groups	
Data Monitoring/Other Committee: [Ye	/No]		
Click or tap here to enter text.	-	Data Monitoring/Other	
1.2. Schema		Click or tap here to e	nter text.
Enter Schema		1.2. Schema	
Line Schema		Enter Schema	

The example below shows section 2.1 Study Rationale.

2.1.	Study Rationale	
Enter	Rationale	



2.1. Study Rationale

The discontinuity in rate associated with this oral dosing regimen was 58.6% in previous studies, and alternative clinical strategies have been sought to improve tolerance for the compound. To that end, development of a Transformal Therapeutic System (TTS) has been initiated.



The example below shows section 3. Objectives, Endpoints, and Estimands.

Objectives	Endpoints		
D.'		Objectives	Endpoints
Frimary		Primary	
 Primary objective 1 	Primary endpoint 1.1 Primary endpoint 1.2 Primary endpoint 1.3 Primary endpoint 1.4	 To determine if there is a statistically significant relationship (overall Type i error rate, aphys=0.05) between the change in both the ADAS-Cog (11) and CBIC4-scores, and drug dose (0, 	Cog (11)] at Week 24 Video-referenced Clinician's Interview-based
Primary objective 2	Primary endpoint 1.4 Primary endpoint 2.1 Primary endpoint 2.2 Primary endpoint 2.3	50 cm2 [54 mg], and 75 cm2 [81 mg]) • To document the safety profile of the	Primary endpoint 1.3 Primary endpoint 1.4
Secondary	Primary endpoint 2.4	 To document the safety prome of the xanomeline TTS. 	Adverse events Vital signs (weight, standing and supine blood pressure, heart rate)
Secondary objective 1	Secondary endpoint 1.1 Secondary endpoint 1.2 Secondary endpoint 1.3 Secondary endpoint 1.4	Secondary	Laboratory evaluations (Change from Baseline) • Primary endpoint 2.4
[Tertiary/Exploratory/Other] Please use wizard 	•	 To assess the dose-dependent improvement in behavior. Improved scores on the Revised Neuropsychiatric Inventory (NPI-X) 	Alzheimer\'s Disease Assessment Scale - Cognitive Subscale, total of 11 items [ADAS Cog (11)] at Weeks 8 and 16
Click or tap here to enter text.		will indicate improvement in these areas.	Video-referenced Clinician's Interview-base Impression of Change (CIBIC+) at Weeks 8 and 16 Mean Revised Neuropsychiatric Inventory (NPI-X) from Week 4 to Week 24
			Secondary endpoint 1.4
Secondary estimand(s)		[Tertiary/Exploratory/Other]	
,		Please use wizard	•

The example below shows section 4.2 Scientific Rationale for Study Design.



The example below shows the affected content in *Table 1. Study Intervention(s) Administered* in section *6.1 Study Interventions Administered*.

Intervention [eg, dosage [eg, dosage [eg, dosage] Description form, dosage, dosage, form, dosage, form, dosage, form, dosage, f

Intervention Intervention			
Description	on 1 Intervent	tion 2 Intervention	3 [eg, dosage form, dosage, frequency]

The example below shows the affected content in *Table 2. Study Arm(s)* in section 6.1 Study Interventions Administered.

Arm Title	Enter Arm name	Enter Arm name	Enter Arm name
Arm Type	[experimental,	[experimental,	[experimental,
	placebo, active	placebo, active	placebo, active
	comparator, sham	comparator, sham	comparator, sham
	comparator, no	comparator, no	comparator, no
	intervention, or other]	intervention, or other]	intervention, or other]
[Arm Description]	[eg, Participants will	[eg, Participants will	[eg, Participants will
	receive [X] 20 mg	receive [X] 20 mg	receive [X] 20 mg
	BID on Day 1 of each	BiD on Day 1 of each	BID on Day 1 of each
	21-day cycle. [Z] will	21-day cycle. [Z] will	21-day cycle. [Z] will
	be administered on	be administered on	be administered on
	Day 1 for 4 cycles.]	Day 1 for 4 cycles.]	Day 1 for 4 cycles.]
Associated Intervention Labels			

Arm Title	Placebo	Xanomeline Low Dose	Xanomeline High Dose
Arm Type	Placebo Comparator Arm	Active Comparator Arm	Active Comparato Arm
[Arm Description]	Placebo	Active Substance	Active Substance
Associated Intervention Labels			