Purpose: Office of the Medical Examiner (OME) pathologists and investigators need access to relevant clinical information during the completion of a medicolegal death investigation. One potential resource is the Controlled Substance Database (CSD). The CSD is a repository of prescriptions for controlled substances designed. OME pathologists currently must log in to a separate system to access the CSD.

Proposed FHIR Solution: The Utah Department of Health currently has a view into the CSD for epidemiologic analysis. A FHIR interface between UMED (the OME's case management system) and CSD could be used to enable pathologists and investigators to access a deceased person's controlled substance history from within the UMED application. UMED would send personal identifiers such as name, date of birth, sex, and CSD would return prescription history information.

The table with relevant information in CSD is csd_trans_hist_iir. A SQL script to create this table is attached.

Table fields are as follows:

FIELD	TYPE	DESCRIPTION
TRANS_ID	INT	A UNIQUE ID FOR EACH TRANSACTION IN THE TABLE
IDENTIFIER	Varchar(50)	Three character identifier code, not relevant to this use case
BIN	Varchar(50)	Not relevant
CUSTOMER_ID	Varchar(50)	A field used by Pharmacies to input a customer identifier. Use of this field varies by pharmacy.
ZIP_PHARMACY	Varchar(50)	Zip code of the supplying pharmacy
BIRTH_DATE	Varchar(50)	Customer's birth date, MM/DD/YYYY
SEX_CODE	Varchar(50)	Customer's sex code. 1=M, 2=F
DATE_RX_FILLED	Varchar(50)	MM/DD/YYYY
RX_NUMBER	Varchar(50)	Unique RX number linking back to supplying system,

		usually 6-10 numbers
PRESCRIBER_ID	Varchar(50)	Unique identifier for controlled substance prescribers, AANNNNNNN
LNAME	Varchar(50)	Customer Last Name
FNAME	Varchar(50)	Customer First Name
STREET_ADDRESS	Varchar(50)	Customer Street Address
STATE	Varchar(50)	Customer Address State
ZIP_CODE	Varchar(50)	Customer Address Zip Code

The use case is as follows:

Assumptions: A case for a deceased person has been created in the UMED system. To create a case, investigators must enter as much demographic information as is known, including name, address, date of birth, etc. At times, some or all of this information is missing.

1. An OME investigator or physician is logged into UMED and opens the case for a deceased individual.
2. Investigator clicks a link or button to "Query CSD"
3. UMED system sends identifiers via FHIR interface to CSD
4. CSD returns transactions for matching person(s)