Documentation for data associated with the manuscript entitled, "Real-world evidence: Telemedicine for complicated cases of urinary tract infection"

To ensure confidentiality of our patients, these two sections from the EHS-US-4002-0001 study protocol were followed:

"**Personal Data Protection**

In order to preserve the confidentiality of patients, the following procedures will be implemented:

- Clinical specimen data will be de-identified and anonymized by EHS so that the identity of subjects may not be readily ascertained by the Investigator or any other individual associated with the operational or analytical features of the study.
- Each subject will be given a unique identifier before making the final dataset available to the Everly Health Clinical Science team.
- No personal identifiable information will be included in the final dataset so that the confidentiality of each subject is protected.

Data Extraction

Clinical data for all appropriate patients within the user database will be assembled by EHS and provided to the clinical data management team via the Clinical Science Snowflake Data Warehouse. The EHS team will de-identify and anonymize the dataset of all personally identifiable information (PII). The Everly Health Clinical Science team members will not have access to PII. The clinical data managers will review the file and create a final analysis-ready dataset. Appropriate samples for inclusion in the final study dataset include those which meet eligibility criteria for appropriate test type and valid biomarker result(s).

In order to minimize potential for bias of the study, all data satisfying eligibility criteria will be included in the final analysis."

Specifically, the CUSTOMER_ID and EXPERT_ID values were randomly generated using the group_by(), mutate(), and cur_group_id() functions from the R (version 4.2.2) package "dplyr" (version 1.0.10). Thus, the CUSTOMER_ID and EXPERT_ID values were not derived from any identifying information from customer or physician records at Everly Health and these IDs cannot be mapped to any personally identifiable information.

Table 1. Data dictionary for: “Real-world evidence: Telemedicine for complicated cases of urinary tract infection”

Column Name	Possible Values	Definition
CUSTOMER_ID	Numeric ID	Numeric ID per each unique customer.
CUSTOMER_AGE	Numeric value ranging from 18 to 84	Customer’s age was derived from their date of birth and the date of the UTI consultation.
AGE_GROUP	“<18”, “18 to 21”, “22 to 45”, “46 to 65”, “66 or older”	Age groups that were derived from the customers’ ages.
REGION	“Midwest”, “Northeast”, “South”, “West”	US census regions; Geographic regions were determined via the U.S. Census regions where the “West” region included the following 13 states: 1) Montana, 2) Idaho, 3) Wyoming, 4) Colorado, 5) New Mexico, 6) Arizona, 7) Utah, 8) Nevada, 9) California, 10) Oregon, 11) Washington, 12) Alaska, and 13) Hawaii; “Northeast” included the following 9 states: 1) Maine, 2) New Hampshire, 3) Vermont, 4) Massachusetts, 5) Rhode Island, 6) Connecticut, 7) New York, 8) New Jersey, and 9) Pennsylvania; “Midwest” included the following 12 states: 1) Ohio, 2) Michigan, 3) Indiana, 4) Wisconsin, 5) Illinois, 6) Minnesota, 7) Iowa, 8) Missouri, 9) North Dakota, 10) South Dakota, 11) Nebraska, and 12) Kansas; “South” included the

		following 16 states and DC: 1) Delaware, 2) Maryland, 3) Virginia, 4) West Virginia, 5) Kentucky, 6) North Carolina, 7) South Carolina, 8) Tennessee, 9) Georgia, 10) Florida, 11) Alabama, 12) Mississippi, 13) Arkansas, 14) Louisiana, 15) Texas, 16) Oklahoma, and the District of Columbia.
HAS_PRESCRIBED	0 or 1	1 indicates that the patient received a prescription medication and 0 indicates the patient did not receive a prescription.
SYMPTOM_RESOLUTION	“Yes”, “No”, or NA	Patients indicated whether they experienced symptom resolution seven days after their UTI consultation.
SYMPTOMS_CATS	“Uncomplicated UTI Symptoms”, “Complicated Symptoms”, and “Other”	Symptom categories were derived from self-reported symptoms measured shortly before the UTI consultation. “Uncomplicated UTI Symptoms” category included patients who presented with between two to four symptoms of an uncomplicated UTI which included urinary frequency, urinary urgency, dysuria, and hematuria. Recurrent infections, defined as more than one infection within 6 months or three or more within a year, were not considered within this category. Patients within the “Complicated UTI” category

		reported one or more uncomplicated UTI symptom and one or more symptoms of complicated infection (e.g., oral temperature greater than 99.5 °F (37.5 °C); new onset of nausea and/or vomiting; new onset of feelings of general achiness/not feeling well; back, abdominal, side, or groin pain; international travel within the past 6 months; and dehydration within the past 2–3 weeks.). Patients within the “Other” category reported 1 or fewer symptoms of uncomplicated UTI but without any symptoms of complicated infection.
URINATING_MORE_FREQUENTLY	“yes”, “no”, or NA	First of the four uncomplicated UTI symptoms measuring frequency of urination.
SUDDEN_URGE_TO_URINATE	“yes”, “no”, “unsure”, or NA	Second of the four uncomplicated UTI symptoms measuring urgency of urination.
NEW_PAIN_URINATION	“yes”, “no”, or NA	Third of the four uncomplicated UTI symptoms measuring pain or burning of urination.
BLOOD_IN_URINE	“yes”, “no”, or NA	Fourth of the four uncomplicated UTI symptoms measuring hematuria (blood within urine).
FOUR_SYMPTOMS_AT_LEAST_ONE	“Yes”, or “No”	An indicator variable of whether the patient reported at least one of the four

		common symptoms of an uncomplicated UTI: 1) urinary frequency, 2) urinary urgency, 3) dysuria, and 4) hematuria.
SYMPTOMS_VAGINAL_INFECTION_COLOR	“Color” or NA	First of five symptoms of a vaginal infection measuring green, yellow, clear, or white discharge.
SYMPTOMS_VAGINAL_INFECTION_ODOR_DISCHARGE	“Odor_discharge” or NA	Second of five symptoms of a vaginal infection measuring odor from urine/discharge.
SYMPTOMS_VAGINAL_INFECTION_VAGINAL_BLISTERS_LESIONS	“Vaginal_blisters_lesions” or NA	Third of five symptoms of a vaginal infection measuring vaginal blisters.
SYMPTOMS_VAGINAL_INFECTION_VAGINAL_ITCHING	“Vaginal_itching” or NA	Fourth of five symptoms of a vaginal infection measuring vaginal itching.
SYMPTOMS_VAGINAL_INFECTION_VAGINAL_RASH	“vaginal_rash”	Fifth of five symptoms of a vaginal infection measuring vaginal rash.
SYMPTOMS_URINARY_COMPLAINT_NEW_NAUSEA_VOMITING	“yes”, “no”, or NA	First of six symptoms of a complicated infection measuring nausea or vomiting.
SYMPTOMS_URINARY_COMPLAINT_GROIN_PAIN	“Groin_pain” or NA	Second of six symptoms of a complicated infection measuring nausea or vomiting.

SYMPTOMS_URINARY_COMPLAINT_NAUSEA_VOMITING	“Nausea_vomiting” or NA	Second of six symptoms of a complicated infection measuring nausea or vomiting.
SYMPTOMS_URINARY_COMPLAINT_TEMPERATURE	“Temperature” or NA	Third of six symptoms of a complicated infection measuring an oral temperature greater than 99.5 °F (37.5 °C).
SYMPTOMS_URINARY_COMPLAINT_GENERAL_ACHINESS	“General_achiness” or NA	Fourth of six symptoms of a complicated infection measuring general achiness.
SYMPTOMS_URINARY_COMPLAINT_INTERNATIONAL_TRAVEL	“yes”, “no”, or NA	Fifth of six symptoms of a complicated infection measuring if the patient traveled internationally within the past six months.
SYMPTOMS_URINARY_COMPLAINT_DEHYDRATION	“yes”, “no”, “unsure”, or NA	Sixth of six symptoms of a complicated infection measuring if the patient experienced dehydration within the past two to three weeks.
RECURRENT_INFECTION	“Recurrent Infection” or “No”	Indicator of recurrent infection that is defined as the second UTI consultation within six months or third or greater consultation within twelve months.
RECOMMENDED_REGIMENS	“recommended” or “Other”	Indicator of whether the patient was prescribed a recommended antibiotic including: nitrofuratoin, trimethoprim-sulfamethoxazole (TMP-SMX), or fosfomycin.
PRESCRIPTION_NITROFURANT	“Nitrofurantoin“ or “No”	Indicator of whether the

OIN		patient was prescribed nitrofurantoin or not.
PRESCRIPTION_BACTRIM	“Bactrim” or “No”	Indicator of whether the patient was prescribed bactrim (TMP-SMX) or not.
PRESCRIPTION_FOSFOMYCIN	“Fosfomycin” or “No”	Indicator of whether the patient was prescribed fosfomycin or not.
PRESCRIPTION_CIPROFLOXACIN	“Ciprofloxacin” or “No”	Indicator of whether the patient was prescribed ciprofloxacin or not.
PRESCRIPTION_COUNT	Numeric count ranging from 0 to 4	Number of prescription medications prescribed to the patient as a result of the consultation.
PRESCRIPTION_PYRIDIUM	“Pyridium” or “No”	An indicator of whether the patient received a prescription for Pyridium or not.
FOUR_SYMPTOMS	Numeric count ranging from 0 to 4	Numeric Count of the four most common symptoms of uncomplicated UTI including: 1) urinary frequency, 2) urinary urgency, 3) dysuria, and 4) hematuria.
PRESCRIBED_FINAL	“Prescribed Antibiotic” or “Other”	Indicator of whether the patient was prescribed at least one antibiotic or not.
EXPERT_SPECIALTY	“Emergency Medicine”, “Family Medicine”, “Internal Medicine”, “Internal Medicine & Emergency Medicine”, “Preventative Medicine”, or “Radiology”	Categorical variable indicating the specialty of the physician who conducted the UTI consultation.
EXPERT_ID	Numeric ID	Numeric ID per each unique expert (clinician)