

The NIDDK Urinary Stone Disease Research Network (USDRN) Study to Enhance uNderstanding of sTent-associated Symptoms (STENTS) has collected blood and urine specimen samples from patients 12 years of age and older undergoing ureteroscopy with stent placement for future research. Below is a description of the samples collected:

Blood Plasma: Samples are collected within 24 hours prior to the start of surgery (Pre-Procedure), immediately post-procedure (POD-0), and on the day of stent removal. Samples are spun at 1,000G for 10 minutes before being stored in a -80°C (or colder) freezer.

Blood Serum: Samples are collected within 24 hours prior to the start of surgery, immediately post-procedure (POD-0), and on the day of stent removal. Samples are allowed to coagulate at room temperature for 30 minutes, then spun at 1,000G for 10 minutes in a swinging bucket centrifuge and 15 minutes in a fixed-angle centrifuge before being stored in a -80°C (or colder) freezer.

Urine Native: Samples are collected within 24 hours prior to the start of surgery, at home by the patient two days after surgery (POD-2), and on the day of stent removal. Samples are gently swirled before being stored in a -80°C (or colder) freezer.

Urine Supernatant: Samples are collected within 24 hours prior to the start of surgery, at home by the patient two days after surgery (POD-2), and on the day of stent removal. Samples are gently swirled, then spun at 2,000G for 10 minutes at 4°C before being stored in a -80°C (or colder) freezer.

Total Participants (vials)

Sample	Pre-Procedure	POD-0	POD-2	Stent Removal*	Unknown	Total vials
Plasma	339 (1,712)	334 (1,610)		263 (1,074)		4,396
Serum	336 (2,936)	332 (2,880)		266 (2,126)	1 (2)	7,944
Urine Native	363 (1,971)		294 (1,572)	316 (1,566)	1 (1)	5,110
Urine Supernatant	353 (2,164)		293 (1,855)	300 (1,660)	1 (1)	5,680

*Only available for participants 18 years or older.

For more information on the collection, processing, and storage of samples please contact the study team at usdrn@duke.edu.