

Instructions for Use of The Spanner™ and the Surveyor™

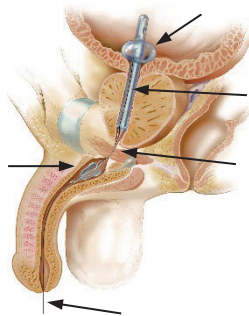
Caution: Federal (USA) law restricts this device to use by or on the order of a physician.

PLEASE READ ALL INSTRUCTIONS BEFORE USING THIS DEVICE.

DEVICE DESCRIPTION OF THE SPANNER™ AND ACCESSORIES

The Spanner™ Temporary Prostatic Stent (“the Spanner”) is a sterile, single use device made of silicone elastomer positioned in the prostatic urethra, extending from the bladder to the apex of the prostate (Figure 1, A). The interior lumen provides a conduit for urine to flow from the bladder to the external sphincter during urination.

Figure 1: Spanner Stent (positioned in prostatic urethra)



The Spanner is inserted and positioned tactilely using a detachable insertion tool. The stent is held in the bladder by an inflatable balloon (B) on its proximal end and a soft distal anchor (C) on the distal end. The distal anchor is attached to the stent by the device tethers (D). The tethers traverse the external sphincter, with the anchor positioned on the distal side of the sphincter to prevent migration toward the bladder, while allowing normal sphincter function to occur. The stent is removed using the retrieval tether (E) which provides for the deflation of the balloon and withdrawal of the stent.

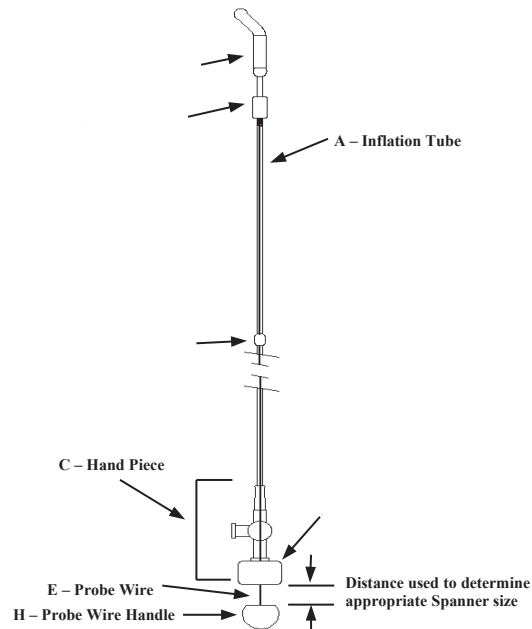
Spanner size selection is enabled by the use of an accessory, the Surveyor urethral measurement device. The stent and insertion tool are provided together in a sterile package. The Spanner is available in 20F diameter, 6 sizes (lengths 4, 5, 6, 7, 8, and 9 cm), and straight or coudé-tip versions.

Surveyor

The Surveyor™ (Figure 2) is designed to assess the length of the urethra from the bladder neck to the distal side of the external sphincter in order to select the appropriate Spanner size. The Surveyor is provided with a coudé-tip. The Surveyor is sterile and packaged separately.

The Surveyor consists of an inflation tube (Figure 2, A) with a balloon (B) on the proximal end and a hand piece (C) on the distal end. A lumen extends from an inflation port stopcock on the hand piece to the balloon, and is used to inject fluid to inflate the balloon. A short probe (D) encircles the inflation tube and slides along the tube length between the balloon and a stop (F). A probe wire (E) is attached to the probe tip; it extends along the length of the Surveyor through the stop and wire guide (G), where it is attached to a probe wire handle (H).

Figure 2: Surveyor Device



INDICATIONS FOR USE

The Spanner Prostatic Stent is intended for temporary use (up to 30 days) to maintain urine flow and allow voluntary urination for patients who are not candidates for pharmacologic, minimally invasive or surgical treatment of the prostate.

CONTRAINDICATIONS

The Spanner is contraindicated for use in patients with:

- Positive urine culture or active urinary tract infection,
- History of symptomatic urinary tract disease such as urethral stricture, bladder stones, or other significant urological conditions (e.g. gross hematuria) that could affect the function of the stent,
- Surgery altering the normal uro-genital anatomy or abnormal urethral anatomy that affects the function of the lower urinary tract, or
- A prostatic urethral length less than 4 cm or greater than 9 cm (combined length from the top (proximal side) of the bladder neck to the bottom (distal side) of external sphincter).

WARNINGS

- **Improper selection of device size could result in acute urinary retention (AUR), device migration, incontinence, or patient intolerance.**
- **If the device migrates or clotting occurs, AUR may develop during use of the Spanner.**
- **Do not use petroleum-based lubricants with the device. Use of these lubricants may degrade device materials resulting in device failure.**
- **The Spanner patient contact surfaces are silicone rubber. If your patient has a known allergy or sensitivity to silicone, do not use the Spanner.**

PRECAUTIONS

- **The Spanner and Surveyor are to be used only by or under the direction of a physician who is qualified by training and experience to use the device.**
- **Appropriate patient education, training, and monitoring by a qualified health care professional are required for safe patient use.**
- **Safety and effectiveness in patients with median lobe enlargement, bladder or pelvic tumors, or prior pelvic irradiation therapy has not been established.**
- **The Spanner has not been evaluated for use with MRI. If an MRI is needed, the Spanner should be removed.**
- **Safety and effectiveness have not been evaluated for use immediately following treatment with transurethral microwave thermotherapy (TUMT) without prior catheterization during the initial post-treatment period.**
- **Safety and effectiveness of The Spanner has not been evaluated beyond 90 cumulative days (i.e., three devices used for 30 days each). PVR should be measured after each 30-day device use cycle and subjects with inadequate bladder drainage with the device should no longer use the device.**
- **The Size 4 stent was utilized only during the post-TUMT study, because none of the patients enrolled in the Extended Use study had a prostatic length appropriate for the Size 4 stent.**
- **The Spanner and Surveyor are packaged sterile and for single use only. The devices should not be re-sterilized. Re-sterilization may degrade device materials resulting in device failure.**
- **Sterile water should be used for balloon inflation. Use of saline or ionic solutions may compromise balloon drainage at the time of removal.**

ADVERSE EVENTS

Adverse events have been investigated in two U.S. investigational device exemption studies.

STUDY 1: POST-TUMT, evaluated the use of The Spanner in post-TUMT patients for a 30-day period.

STUDY 2: EXTENDED USE, evaluated the extended use (3 x 30 days) of The Spanner in catheter-dependent men with comorbidities.

See “SUMMARY OF CLINICAL STUDIES” section for details regarding these studies.

STUDY 1: POST-TUMT

Men enrolled in this evaluation were post-TUMT patients. The events reported may reflect the cumulative effects that characterize the TUMT healing process as well as the presence of the Spanner. The Spanner clinical trial included 100 subjects who used the Spanner to improve their urinary symptoms and urine flow after removal of their post-treatment urinary catheter.

There were 658 adverse events reported during the course of the study; 385 events were reported by 99 Spanner subjects and 273 events were reported by 80 Standard of Care (SOC) subjects.

There were 5 serious adverse events reported during the course of the study. The four events in the Spanner group were: gross hematuria due to initiating anticoagulation therapy, congestive heart failure, and preexisting abdominal aortic aneurysm (all unrelated to the device), and urinary tract infection requiring hospitalization (possibly related to the device). The one serious adverse event reported in the Standard of Care group was congestive heart failure. There were no deaths reported.

Table 1 shows the number and percentage of post-TUMT Spanner subjects that experienced an event at least once for events that occurred in at least 3% of the Spanner subjects. All 100 Spanner subjects were included in the analysis.

Table 1: Rates of All Urological Adverse Events		
Event	Spanner N (%)	Total Number of Events
Micturition Burning	69 (69.0%)	70
Bleeding/Hematuria	61 (61.0%)	68
Urinary Frequency Urgency	44 (44.0%)	47
Perineal Pain	26 (26.0%)	29
Bacteriuria	21 (21.0%)	23
Pain/Discomfort/Spasm	19 (19.0%)	21
Symptomatic UTI	15 (15.0%)	16
Urinary Retention	10 (10.0%)	12*
Urinary Retention with no reported migration or clotting	5 (5.0%)	
Urinary Retention associated with migration	3 (3.0%)	
Urinary Retentions associated with clotting	2 (2.0%)	
Urinary Incontinence	8 (8.0%)	8
Pain - Trauma Activated	7 (7.0%)	8
Irritation of Bladder/Urethra from device contact	6 (6.0%)	6
Ulceration/Trauma of Urethra/Bladder	4 (4.0%)	4
Ejaculation Failure	4 (4.0%)	4
Dysparieunia - Painful Sex	4 (4.0%)	4
Elevated PVR	3 (3.0%)	3
Urinary hesitation	3 (3.0%)	3

* This includes two retention events that occurred after Spanner removal.

Bladder and urethral cystoscopy revealed no significant differences in findings between the treatment and control groups.

Other urological adverse events that occurred in less than 3% of subjects in the investigation included: difficulty in micturition, post void dribble, urethral irritation, pruritus, mucosal tingling, migration not associated with retention, Spanner expulsion, Foley expulsion, bladder calculus, hemospermia, epididymitis, penile swelling, phimosis, penile pain, ejaculation disorder, testicular pain, bladder discomfort, and urethritis. The majority of adverse events (>75%) for both groups occurred during Weeks 1-4 following randomization. Adverse events that occurred following removal of the Spanner included: bleeding/hematuria, urinary/frequency/urgency, urinary retention, elevated PVR, perineal pain, pain/discomfort/spasm, micturition burning, bacteriuria, and symptomatic UTI.

To assess the severity of the reported events, urological adverse events that required treatment were reviewed. Rates of urological adverse events requiring treatment were comparable for the Spanner and SOC subjects. Table 2 shows the number and percentage of Spanner subjects that experienced an event which required treatment for events that occurred in at least 3% of the Spanner subjects. All 100 Spanner subjects were included in the analysis.

Event	Spanner N (%)	Total Number of Events
Bacteriuria	16 (16.0%)	17
Symptomatic UTI	13 (13.0%)	14
Urinary Retention	10 (10.0%)	12*
Urinary Retention with no reported migration or clotting	5 (5.0%)	
Urinary Retention associated with migration	3 (3.0%)	
Urinary Retentions associated with clotting	2 (2.0%)	
Micturition Burning	9 (9.0%)	9
Pain/Discomfort/Spasm	7 (7.0%)	8
Urinary Frequency Urgency	5 (5.0%)	5
Perineal Pain	5 (5.0%)	5

* This includes two retention events that occurred after Spanner removal.

Other urological adverse events requiring treatment that occurred in less than 3% of subjects in the investigation included: bleeding/hematuria, elevated PVR, migration not associated with retention, Foley expulsion, irritation of bladder/urethra from device contact, epididymitis, and testicular pain.

STUDY 2 - EXTENDED USE

Men enrolled in the evaluation of the extended use of The Spanner (i.e., three devices used for 30-days each) were catheter-dependent with comorbid conditions.

Table 3 provides a summary of all adverse events reported by all subjects. There were 173 adverse events reported by 81 (75.7%) subjects. Out of the total number of reported AEs, 101/173 (58.38%) were deemed related or possibly related to the device or

procedure. Most AEs were mild (151/173; 87.28%) to moderate (20/173; 11.56%) in severity.

Category	Total Number (%) of Events
All Adverse Events	
All Adverse Events	173
AEs related to device or procedure	101/173 (58.4%)
Relatedness Categories	
Definite	11/173 (6.4%)
Probable	40/173 (23.1%)
Possible	50/173(28.9%)
Unlikely	44 (25.4%)
Not related	28 (16.2%)
Severity Categories	
Severe	2/173 (1.2%)
Moderate	20/173 (11.6%)
Mild	151/173 (87.3%)

Table 4 lists the number and percentage of all procedure and/or device related adverse events that occurred in at least 2% of subjects.

Event	n/N (%)	Total Number of Events
Bacteriuria	25/107 (23.4%)	29/173
Pain	10/107 (9.4%)	10/173
Urinary urgency	8/107 (7.5%)	8/173
Urinary frequency	6/107(5.6%)	6/173
Dysuria	6/107 (5.6%)	6/173
Voiding difficulty	6/107 (5.6%)	6/173
Hematuria	5/107 (4.7%)	5/173
Urinary incontinence	4/107 (3.7%)	5/173
Urinary retention	4/107 (3.7%)	5
Urinary tract infection	4/107 (3.7%)	5
Penile Pain	3/107 (2.8%)	3
Residual Urine	3/107 (2.8%)	3

The most common AEs reported were bacteriuria (asymptomatic) (25/107; 23.36%) followed by pain (10/107; 9.35%) and urinary urgency (8/107; 7.48%).The following adverse events were reported by less than 2% of the subjects: urinalysis abnormal, bladder discomfort, calculus urinary bladder, cloudy urine, nocturia, painful erection, post void dribbling, pus cells in urine.

Fifteen of the 107 patients (14.0%) reported 16 serious adverse events, of which 13 were moderate and 3 were mild. All SAEs required subject hospitalization and all were resolved prior to study completion. None of the SAEs were related to the procedure or the device, and 9 of 16 (56.3%) were associated with pre-existing conditions. There were no subject deaths reported during this study.

Urethral and bladder cystoscopy was conducted prior to Spanner insertion and after the final stent removal to assess the impact of The Spanner on urinary tract tissues. There were no significant differences in findings between baseline bladder and urethral cystoscopy and bladder and urethral cystoscopy following extended use of The Spanner.

SUMMARY OF CLINICAL STUDIES

The safety and effectiveness of The Spanner™ Temporary Prostatic Stent (“the Spanner”) was evaluated in two studies:

- STUDY 1: POST-TUMT, a prospective, randomized, multi-center clinical investigation of men during the post-TUMT recovery period, and
- STUDY 2: EXTENDED USE, a prospective, multi-center investigation of men in urinary retention who are catheter-dependent with comorbidities that precluded them from other treatments. This study evaluated extended use of The Spanner (i.e., three devices used for 30-days each).

STUDY 1: POST-TUMT

Methods

The investigation compared use of the Spanner to a Standard of Care (SOC) control group during the post-TUMT recovery period. Patients were randomized *after* the Foley catheter was removed, 3-10 days post-TUMT, and successful completion of a voiding trial. The Spanner:SOC randomization ratio was 1:1 for the first 147 enrolled subjects and 2:1 thereafter. Patients in the Spanner group used the Spanner to manage lower urinary tract symptoms (LUTS) and bladder emptying for a period of 28 days after removal of their post-treatment Foley catheter. Patients in the SOC group were sent home with no catheter or stent after removal of their post-treatment Foley catheter, as this is the current standard of care. A total of 186 patients were enrolled in the investigation at nine clinical centers in the United States. Primary study endpoints were reduction in post-void residual level (PVR) and reduction in LUTS (as indicated by the International Prostate Symptom Score – ‘IPSS’). The investigational plan hypothesized that the reduction in PVR levels in the Spanner group would be non-inferior to that in the SOC group and that the reduction in IPSS in the Spanner group would be superior to that in the SOC group. Adverse events and other secondary endpoints were monitored. Study subjects were followed at 1, 2, and 4 weeks during the Spanner indwelling period and 1 and 4 weeks after the point of Spanner removal.

Results

A total of 186 subjects were enrolled and randomized at nine (9) clinical centers, with 100 subjects (54%) randomized into the Spanner group and 86 (46%) into the Standard of Care group. Table 5 depicts the number of subjects participating in each follow-up evaluation.

Visit Type	Spanner	SOC
Visit 3 (7 days post Insertion)	89	81
Visit 4 (14 days post Insertion)	86	81
Visit 5 (28 days post Insertion and Spanner Removal)	82	78
Visit 6 (7 days post Removal)	82	78
Visit 7 (28 days post Removal)	82	77

The primary efficacy endpoint of the trial, IPSS score, was analyzed by comparing the mean at visits 3 and 4 to the baseline value, and computing a change score (using last value carried forward for missing data). All 100 Spanner patients and 86 Standard of Care patients were included in the analysis, with an improvement from baseline of 7.28 points in the Spanner group and 4.42 points in Standard of Care. The Spanner group was statistically improved compared to Standard of Care with a difference of 2.86 points (p=0.019).

The primary safety endpoint, post void residual (PVR), was analyzed by comparing the mean at visits 3, 4 and 5 to the baseline value, and computing a change score (using last value carried forward for missing data). All 100 Spanner patients and 86 Standard of Care patients were included in the analysis, with a mean *decrease (improvement)* from baseline of 6.5 ml in the Spanner group and a mean *increase* of 28.6 ml in the Standard of Care group. The Spanner group was significantly improved compared to Standard of Care (p=0.001).

IPSS and PVR values presented by visit (Table 6 and Table 7), demonstrate superiority (p<0.05) in the Spanner group versus Standard of Care at Visits 3 and 4 for PVR and at Visit 3 for IPSS. All 100 Spanner patients and 86 Standard of Care patients were included in the analyses.

Time Period	Spanner Mean +/- SD (Range)	SOC Mean +/- SD (Range)	P- value *
Visit 1 (Baseline)	22.7+/- 5.4 (10, 34)	22.1+/- 5.0 (13, 35)	N/A
Visit 3 (change from Visit 1)	-6.6+/- 9.1 (-27, 14)	-3.6+/- 7.3 (-31, 13)	0.047
Visit 4 (change from Visit 1)	-8.0+/- 9.1 (-30, 16)	-5.3+/- 8.2 (-35, 12)	0.084
Visit 5 (change from Visit 1)	-9.1+/- 9.5 (-29, 15)	-7.7+/- 7.9 (-35, 10)	0.290
Visit 6 (change from Visit 1)	-11.9+/- 9.1 (-30, 10)	-9.8+/- 8.0 (-35, 6)	0.179
Visit 7 (change from Visit 1)	-14.1+/- 8.9 (-31, 9)	-12.3+/- 7.8 (-35, 2)	0.234

* Multiply adjusted using the permutation resampling method of Westfall and Young (1993)

Time Period	Spanner Mean +/- SD N (Range)	SOC Mean +/- SD (Range)	p- value*
Visit 1	83.1+/-65.7 (0, 347)	86.9+/-98.8 (0, 641)	N/A
Visit 2 (Baseline)	60.0+/-62.3 (0, 291)	60.3+/-88.9 (0, 641)	N/A
Visit 3 (change from Visit 2)	-7.7+/-63.0 (-166, 199)	32.2+/-89.8 (-365, 511)	0.001
Visit 4 (change from Visit 2)	-5.0+/-70.4 (-190, 214)	40.0+/-93.3 (-328, 417)	0.001
Visit 5 (change from Visit 2)	-6.7+/-65.6 (-190, 263)	13.6+/-80.6 (-341, 275)	0.099

Visit 6	9.1+/-71.3	12.8+/-76.8	0.736
(change from Visit 2)	(-190, 204)	(-337, 229)	

* Multiply adjusted using the permutation resampling method of Westfall and Young (1993)

STUDY 2: EXPANDED USE

Methods

The study was a prospective, multicenter, single-arm, open-label clinical investigation to evaluate the use of The Spanner in retention patients dependent on urinary catheters for bladder drainage with comorbid conditions that preclude them from pharmacologic, minimally invasive or surgical treatment of the prostate. The goal of this study was to return these patients to active volitional voiding with adequate bladder drainage (defined as a post-void residual of 150 ml or less) for an extended period (defined as 90 cumulative days comprised of three devices used for 30-days each). PVR levels were monitored throughout the 90 days of stent use to confirm that the patient was able to successfully empty his bladder.

Enrollment in the study was limited to patients who met the following inclusion criteria:

- >45 years old,
- catheter-dependent with associated catheter-discomfort,
- documented diagnostic history of detrusor contractility (≥ 15 cmH₂O) confirmed via pressure-flow test,
- not a candidate for pharmacologic, minimally invasive or surgical treatment of the prostate,
- negative urinalysis,
- Charlson Weighted Index of Comorbidity Score ≥ 1 ,
- Willing and able to sign the Informed Consent Form,
- Willing and able to complete the follow-up protocol requirements,
- Experiencing catheter-induced discomfort.

Subjects were not permitted to enroll in the study if they met any of the following exclusion criteria:

- Current use of a urinary catheter daily for greater than 180 consecutive days immediately preceding entering into the study,
- Positive Urinalysis on Visit 1,
- Current or recent (within the last 6 months) urinary tract disease including urethral stricture, bladder stones, and other significant urological conditions or surgery,
- Surgery altering the normal uro-genital anatomy or abnormal urethral anatomy that affect the function of the lower urinary tract,
- History of conditions associated with neurogenic bladder, including spinal cord injury, multiple sclerosis, or Parkinson's disease,
- Use of anticholinergic medication,

- Gross hematuria when catheter is removed on Visit 1,
- Known or suspected prostate cancer,
- Prior pelvic irradiation therapy,
- Prostatic urethral length < 4 cm or > 9 cm (combined length from the top proximal side of the bladder neck to the bottom distal side of the external sphincter),
- Intravesical enlargement of the median lobe of the prostate,
- Prior penile prosthesis.

Once enrolled, subjects were fitted with The Spanner at the first visit. They subsequently attended study visits at an interval of approximately 30 days for a total of up to 90 days (Visit 2, Visit 3 and Visit 4) in which the stent was replaced at each visit. Subjects completed the study upon removal of The Spanner stent after 90 days and one follow-up telephone call post-removal. Post void residual (PVR), uroflow, urinary symptoms, subject satisfaction and the occurrence of adverse events were collected throughout the duration of the study. Cystoscopy was performed prior to the initial stent placement and after the final stent removal to determine any effects of The Spanner on lower urinary tract anatomy.

Results

One hundred seven (107) catheter-dependent men with comorbid conditions which precluded them from pharmaceutical, minimally invasive, or surgical methods of treating prostatic obstruction were enrolled. Table 8 outlines the number and percentage of men who participated in each study visit.

Eighty-two men completed the study (82/107; 76.6%), and 25/107 (23.4%) discontinued; primarily due to patient unwillingness to complete study requirements (9/107; 8.4%), physician-mediated withdrawal based on the belief that the subject was unable to complete study requirements (8/107; 7.5%), and lack of effectiveness (4/107; 3.7%).

Table 8: Enrolled Subjects by Visit		
Visit Type	N=107	%
Screening and Enrollment Visit		
1 st Spanner Placement	106/107	99.1%
Follow-up Visits		
After 1 st Month of Spanner Use	93/107	78.9%
After 2 nd Month of Spanner Use	84/107	78.5%
After 3 rd Month of Spanner Use	82/107	76.6%
Post-Spanner Phone Call	82/107	76.6%

The primary endpoint of the study was to determine the frequency of enrolled men who demonstrated adequate bladder drainage which was defined as a PVR volume of 150 ml or less during three months of sequential use. Seventy-nine of 107 (73.8%, [0.644,0.819 95%CI] p< 0.0001) enrolled men passed the primary study endpoint (Table 9).

Table 9 and Table 10 provides the number and percentage and descriptive statistics of the post void residual volumes of subjects who met the secondary

endpoints as defined by the following bladder drainage goals:

- The frequency of men with PVR volumes of 250 ml or less during 90 days of Spanner use,
- The frequency of men with PVR volumes of 150 ml or less during 30 days of Spanner use,
- The frequency of men with PVR volumes of men with PVR volumes of 250 ml or less during 90 days of Spanner use.

Table 9: Subjects Meeting 90-day Endpoints

Met Endpoint	Primary Endpoint	
	PVR ≤ 150 ml	PVR ≤ 250 ml
n (%)	79 (73.8%)	79 (73.8%)
Mean	43.3	44.0
SD	40.2	41.3
Median	30	30
Min	0	0
Max	150	176

Table 10: Subjects Meeting 30-day Endpoints

Met Endpoint	PVR ≤ 150 ml	PVR ≤ 250 ml
n (%)	86 (80.4%)	87 (81.3%)
Mean	45.8	47.1
SD	43.3	45.0
Median	31	31
Min	0	0
Max	150	176

Each study visit included an assessment of maximum urinary flow rate (Qmax), the severity of lower urinary symptoms as measured by the International Prostate Symptom Score (IPSS) and a measure of urological quality of life (QOL) as measured by Question 8 of the IPSS questionnaire. Table 11 provides descriptive statistics for these measures and demonstrates their consistency while using The Spanner.

Table 11: Uroflowmetry, Symptoms and Quality of Life

Visit	Qmax Mean±SD (n)	IPSS Mean±SD, (n)	QOL Mean±SD, (n)
Screening and Enrollment	11.9±7.0 (93)	Not done*	Not done*
After 1 st Month of Spanner Use	11.4±7.1(84)	7.7±6.8 (89)	2.0±1.6 (89)
After 2 nd Month of Spanner Use	11.8±6.4 (73)	7.6±6.2 (82)	2.0±1.5 (82)
After 3 rd Month of Spanner Use	9.6±5.4 (73)	7.1±6.2 (82)	2.0±1.7 (82)

*Since subjects were incapable of voluntary voiding at enrollment the IPSS, a questionnaire assessing symptoms occurring during voiding, was not administered

PROTOCOL DEVIATIONS

A total of 151 protocol deviations (PDs) were reported for 64/107 (59.8%) subjects during the study endpoint

period. The most reported PD types were missed tests (91/151; 60.26%), test not performed per protocol (25/151; 16.56%), and inclusion/exclusion protocol (16/151; 10.60%). All informed consent, effectiveness and/or safety, and inclusion/exclusion PDs were categorized as important. Thirty-three PDs (33/151; 21.85%) were categorized as important. Sites 003, 005 and 009 were closed before the end of the study enrollment since their PD rates were higher than the study mean, indicating non-compliance with the clinical investigation plan. Sites were closed when there were no active subjects at those sites. No subjects were terminated from the study due to site termination.

PATIENT COUNSELING INFORMATION

Patient counseling is the responsibility of the treating physician. SRS Medical provides a Patient Information Booklet to assist the physician in discussing The Spanner and Surveyor with the patient. It is recommended that the subjects in this book, including the insertion and removal of the Spanner, the risks, sexual activity, and other options, be discussed with the patient. It is SRS Medical's recommendation that the Patient Information Booklet be provided to the patient in a timely manner.

HOW SUPPLIED

The Spanner and Surveyor are packaged and sold separately.

One (1) Spanner is packaged sterile in a peel-away pouch with Instructions for Use (IFU) and an Emergency Removal Card included.

One (1) Surveyor and Spanner Selector Card are packaged sterile in a peel-away pouch with an IFU included.

The Spanner and Surveyor are provided ethylene oxide (EO) sterilized.

Materials required but not included:

- 10cc Luer-tip syringe
- Water based lubricant (i.e. KY Jelly)
- Lidocaine Jelly
- Sterile Water

INSTRUCTIONS FOR USE

Caution: Before using any sterile packaged product, carefully inspect the package and device for any damage which may compromise sterility or use.

Use the Surveyor to select the appropriate size Spanner

The appropriate Spanner size is determined using the Surveyor, a tool designed to assess the distance from the bladder neck to the distal side of the external sphincter, which corresponds with where the Spanner resides *in situ*.

1. Lubricate the tip of the Surveyor with a water soluble lubricant (e.g., sterile lubricating jelly or topical anesthetic).
2. Inject a topical anesthetic into the urethra.
3. Insert the Surveyor into the urethra and advance it until the proximal tip is located in the bladder.

- Inject 5cc sterile water and close stopcock.

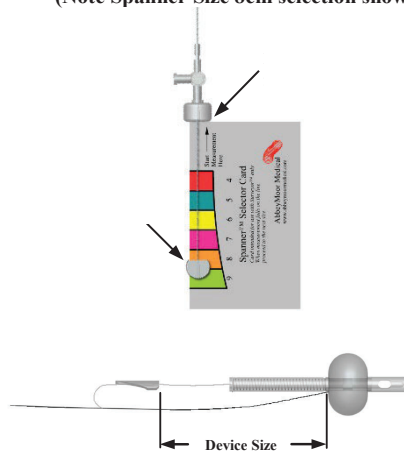
Caution:

- Failure to close the stopcock valve will allow the balloon to deflate, potentially resulting in an inaccurate Spanner size selection.
- Use the recommended inflation volume to ensure accurate selection of Spanner size.

- Apply gentle traction on the Surveyor to seat the balloon on the bladder neck.
- Ask the patient to relax while continuing to apply gentle traction to the Surveyor, then advance the probe tip until it gently abuts the patient's external sphincter.
- Confirm sphincter location by repeating step 6.
- Once confirmed, the Spanner size is determined by comparing the distance between the wire guide and the probe wire handle with the Spanner selector card (Figure 3). This distance represents the distance from the bladder neck to the bottom of the external sphincter. The Spanner selector card indicates the appropriate size to use.

Caution: If the probe wire handle does not indicate a size, the patient is not a candidate for receiving the Spanner.

Figure 3: Spanner Selector Card and Device Size Table
(Note Spanner Size 8cm selection shown)



Color Code	Device Size
Red	4 cm
Blue	5 cm
Yellow	6 cm
Purple	7 cm
Orange	8 cm
Green	9 cm

- Following size selection, open the stopcock and wait 15 seconds until the balloon is completely drained.
- Withdraw the Surveyor.

Prepare the Spanner

(Refer to Figure 4 for a detailed diagram of the Spanner and Insertion Tool components.)

- Remove (B) black retrieval tether and (K) green access tether from rubber shipping sleeve

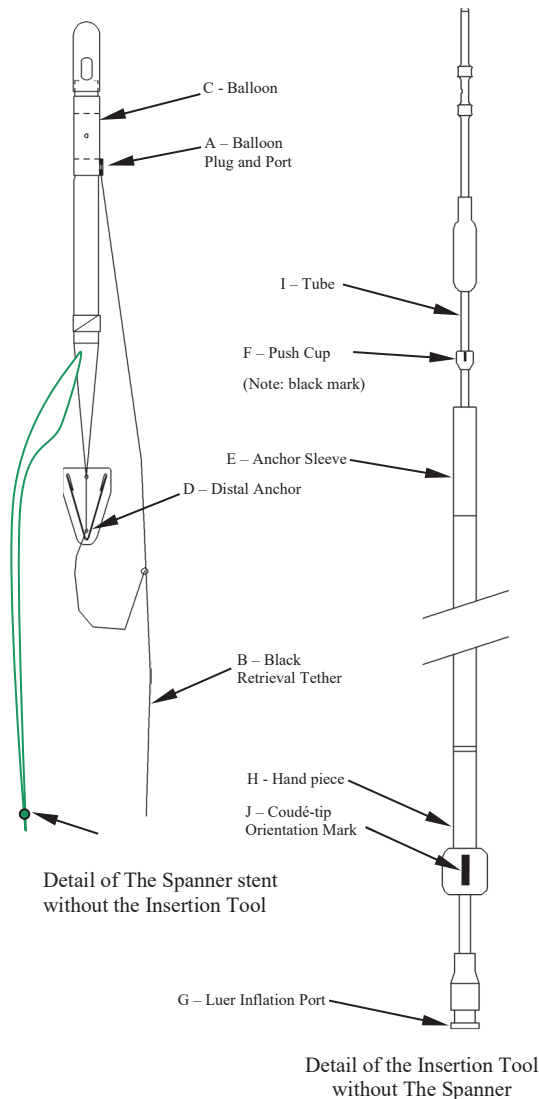
installed on (G) luer inflation port. Remove rubber shipping sleeve from insertion tool and discard. Verify that the balloon plug (A) is properly seated in the balloon plug port.

2. Conduct a balloon inflation pre-test as follows:
 - a. Inject approximately 5cc sterile water into the inflation port.

Caution: If the balloon does not fully inflate, do not use the device.

- b. Pull the black retrieval tether (B) to drain the balloon.
- c. Massage the balloon (C) lightly to remove the residual water and fully replace the balloon plug (A).

Figure 4: The Spanner and Insertion Tool Detail



3. Align the (B) black retrieval tether and (K) green access tether along the body of the insertion tool. Be very careful to ensure that the black retrieval tether and green access tether are not wrapped around the body of the insertion tool to avoid inadvertent or premature removal of the balloon plug.

The Spanner is now prepared for insertion.

Insert the Spanner

Caution:

- **Proper placement of the device and correct balloon inflation volume are essential for device function. Misplacement or incorrect inflation volume may result in inadequate stenting of the prostate. If this occurs the patient may experience difficult urination, increased post void residual (PVR) or AUR. Incontinence may occur if stent extends through the external sphincter.**
 - **The balloon must be in the bladder prior to inflation. Inflation of the balloon while in the urethra may be painful.**
 - **Sterile water should be used for balloon inflation. Use of saline or ionic solutions may compromise balloon drainage at the time of removal.**
 - **Do not use petroleum based lubricants with the device. Use of these lubricants may degrade device materials resulting in device failure.**
4. Using coude-tip orientation mark (J) as a reference, insert Spanner with coude-tip directed to the patient's anterior.
 5. Advance the Spanner slowly into the urethra until the balloon is positioned in the bladder. Do not use excessive force to insert the Spanner. If unexpected resistance is encountered, do not continue insertion without first determining the cause of the resistance and taking remedial action.
 6. Use a luer syringe to inject **5cc sterile water** into the inflation port (G).
 7. Apply gentle traction to position the balloon in the bladder neck.
 8. Release the anchor by holding the metal luer (G) steady while withdrawing the plastic hand piece (H). You may feel the anchor release from the insertion tool.

Caution: Pushing the metal luer to release the anchor will incorrectly position the Spanner in the urethra.

9. Continue to withdraw the insertion tool using the plastic hand piece. The Spanner should deploy easily from the Insertion Tool. If separation of either the distal anchor or the hand piece does not occur with gentle traction the device should be removed by pulling the black tether, waiting 15-20 seconds to allow the balloon to deflate, and then withdraw the device.
10. The black retrieval tether may be left extended beyond the meatus. If left extended, it should be trimmed 2" beyond meatus with penis on stretch to compensate for the possibility of erectile function and to prevent retraction of tether. After removal of the insertion tool, gentle traction on the green access tether may be used to confirm balloon position at the bladder neck.
11. The green access tether may be removed by cutting off the knot and pulling one end of the tether.

Discharge the Patient

1. Conduct a trial void to verify patient can urinate adequately.
2. Instruct the patient not to pull on the black retrieval tether as this could deflate the balloon and dislodge the Spanner.

Caution: Pulling the black tether may result in the patient experiencing an AUR event.

3. Instruct the patient on the signs of developing retention and other potential adverse events. At the onset of relevant symptoms the patient should consult his urologist or caregiver.
4. Provide the patient with emergency contact information and Emergency Removal Card. Instruct the patient that if he requires emergency care the caregiver must be informed that the patient is wearing The Spanner.
5. Instruct the patient that removal of The Spanner should be performed by or under the supervision of a physician.

Remove The Spanner

1. If tether is indwelling, it may be beneficial to have the patient urinate immediately prior to device removal to help position the retrieval tether near the meatus. Retract the tip of the penis slightly to locate and grasp the retrieval tether. Note: If the retrieval tether cannot be located manually, urethroscopy may be required to locate and grasp the retrieval tether.
2. Remove the device by gently pulling on the black retrieval tether until you feel the plug release from the balloon then stop pulling. Wait 15-20 seconds to allow balloon to deflate.
3. Resume pulling on the black retrieval tether until stent is removed. Do not use excessive force during device removal. If unexpected resistance is encountered determine the cause of the resistance and take remedial action.

Caution:

- **If excessive resistance is felt during Spanner removal, balloon deflation may not have occurred. Removal of the device should be completed under cystoscopic guidance.**
 - **If balloon rupture occurs during removal, cystoscopy should be performed to assure that all balloon fragments have been removed from the urinary tract.**
 - **PVR should be measured after each 30-day device use cycle and subjects with inadequate bladder drainage should no longer use the device.**
4. After use, this product may be a potential biohazard. Handle and dispose of in accordance with accepted medical practice and applicable laws and regulations.










PATIENT INFORMATION

A Patient Information Booklet is available to assist the physician in counseling the patient about this device. Patient Information Booklets are provided with the initial device order and additional copies are available from SRS Medical. A patient Emergency Removal Card is included with this IFU.

For additional information contact:

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No. Billerica, MA 01862 USA
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International Symbols Glossary

	Caution, Consult Accompanying Documents
	Sterilization using ethylene oxide
	Do Not Reuse
	Manufacturer
	EU Authorized Representative
	CE Marking of Conformity
	Catalogue Number
	Batch Code
	Use By

PN 3007035 Rev H
Effective Date: XX/20