Direct access for transurethral suturing with

ENDO-NAHT MSD NEY

Surgical sutures

MSD = Minimal Suturing Device

reach the goal safely and quickly

SERAG WIESSNER

Advantages

reduced risk to patients

significantly shortened operating time

no need for open surgery

Dr Jörg Neymeyer from the Charité University Hospital Berlin developed the ENDO-NAHT MSD NEY (MSD = minimal suturing device) especially to meet the needs of transurethral suturing. This suturing system provides an alternative to the conventional approach in the fields of urology and gynaecology:
it is gentle on the patient and is quick.

Combined with a needle locking function:

It consists of a suture guiding tube and a needle-thread combination comprising an absorbable suture and a special double-curved needle.

Guiding tube

- made of surgical steel
- small outer diameter (approx. 2 mm) for gentle passage through the urethra
- flexibility and torsion stability
- the structured handle ensures that the guiding tube sits comfortably in the hand, even when wearing wet gloves.
- special fixation slot, into which the specially shaped needle can be locked in place when necessary. Once the needle is locked in place, a suture can be placed by rotating the guiding tube.

The MSD NEY procedure allows wounds to be closed more easily without resorting to open or laparoscopic abdominal surgery.

Innovative and effective procedure

With the modern suturing system ENDO-NAHT MSD NEY, it is now possible to place sutures in the bladder using a minimally invasive technique, thus making bladder surgery easier. This allows, under cystoscopic guidance, the closure of bladder fistulas directly during the primary surgery, the treatment of urachal cysts and patent urachi, the performance of en-bloc tumour resections, and the

removal of renal pelvis carcinomas and ureteric tumours. Furthermore, prevesical ureteral stenoses (recurrences) can also be completely resected. Until now, larger wounds required open surgery to close the wall defects. This has now changed thanks to the ENDO-NAHT MSD NEY. A suture guiding tube with a semi-rigid form can be introduced via the urethra. The special needle is secured in an upright position by pulling on the suture and then locked in place according to the lock-and-key principle. The special needles are available in both curving directions. They can be turned in either direction, thus allowing the placement of a transurethral suture without causing any additional damage to the tissue. The knot (e.g. Roeder knot) is tied using the extracorporeal technique and placed at the closure site with the aid of the special knot slider.

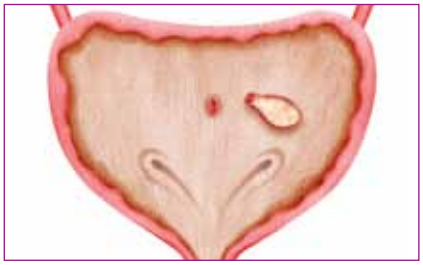
The ENDO-NAHT MSD NEY can also be used as a support for laparoscopic procedures (management of the bladder cuff during a nephroureterectomy procedure).

For patient and surgeon

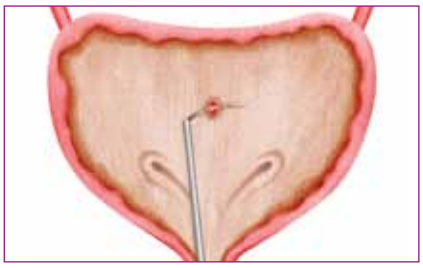
Surgeons can use the patient's natural orifices to remove diseased tissue of the genitourinary tract by applying the NOTES technique (NOTES = Natural Orifice Transluminal Endoscopic Surgery). Where major surgery was necessary in the past, it is now possible to use minimally invasive techniques with the ENDO-NAHT MSD NEY.

Using the ENDO-NAHT MSD NEY means a reduced risk of infection for the patient in comparison with open surgery. The average operating time is also significantly reduced.

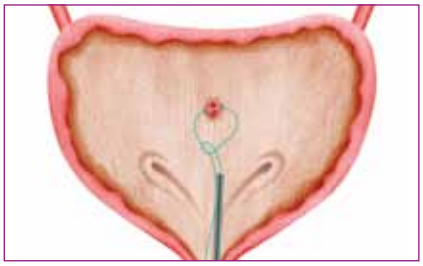
All components for the suturing system are available in the SERAG-WIESSNER product range. No other special instruments are required.



A large wall defect is left after removal of the diseased bladder tissue.



The ENDO-NAHT MSD NEY is introduced via the urethra. The needle and instruments are designed in such a way that the tissue is not damaged in the process. By pulling on the thread, the needle is fixed automatically and is locked in place according to the lock-and-key principle.



Wound closure is accomplished using an extracorporeal knot (Roeder knot) and a special knot slider.

References
A novel endoscopic surgery method: transurethral surgery – natural orifice translumenal endoscopic surgery (TUS-NOTES) for treatment of vesicovaginal fistula. 31st Congress of the German Continence Society, November 2019, Essen, Germany

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Possibilities and limitations of transurethral surgery (TUS-NOTES) by introducing the intravesicular suture using a minimal suturing device (MSD-Ney). 70th Congress of the German Society for Urology, September 2018, Dresden, Germany

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