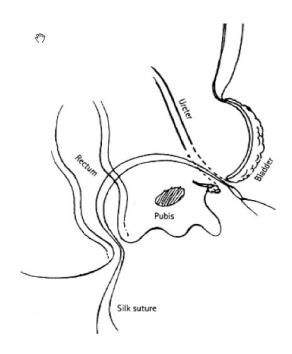
The making of the ileal orthotopic bladder substitute with an afferent tubular segment:

In memory of Prof. Urs Studer

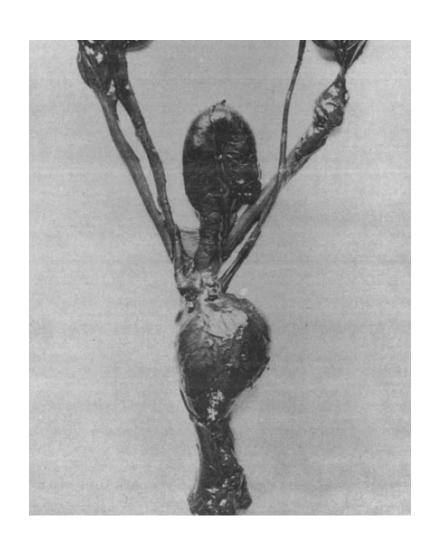


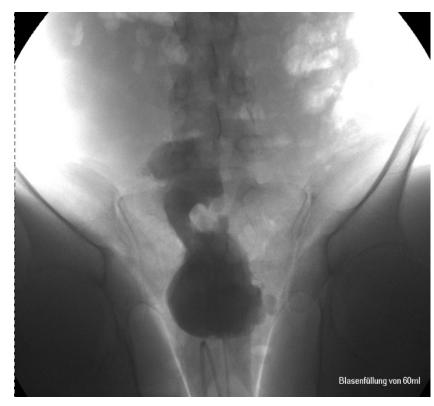
1944 - 2023

The history of urinary diversion began when Simon in 1852 reported implanting both ureters into the rectosigmoid colon with the help of silver catheters and silk sutures.



Tizzoni und Foggi 1888 Centralblatt für Chirurgie





First experience bladder substitutes

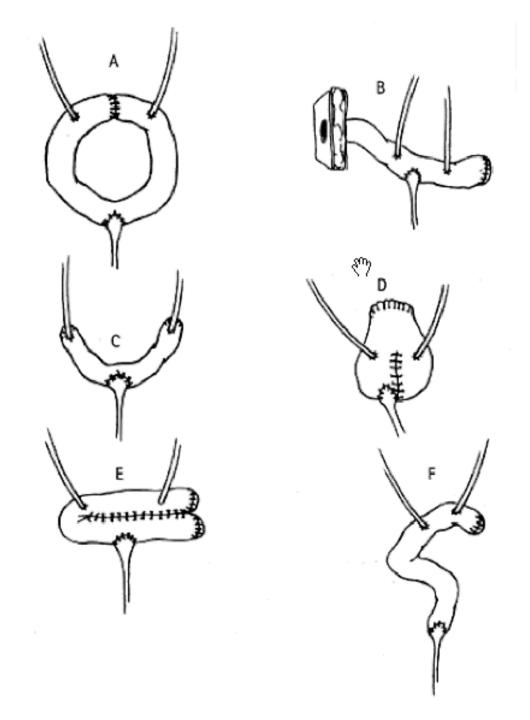
Verhoogen 1908 Makkas 1910 Lengemann 1912

Continence was not the best!

Ileocecal segment with the appendix to the abdominal wall

Gilchrist, Zingg, Aschken and Goldwasser used a distal ileal segment instead of the appendix

Figure 1.11 lleal neobladders. (a) Tizzoni and Poggi (1888); (b) Couvelaire (1951); (c) Pyrah and Raper (1955); (d) Giertz and Franksson (1957); (e) Mellinger and Suder (1958); (f) Gandin (1960).



ILEAL RESERVOIR (URETEROILEOURETHRAL ANASTOMOSIS)

METHOD OF URINARY DIVERSION

George T. Mellinger, M.D.
and
Garfield L. Suder, M.D., Cincinnati

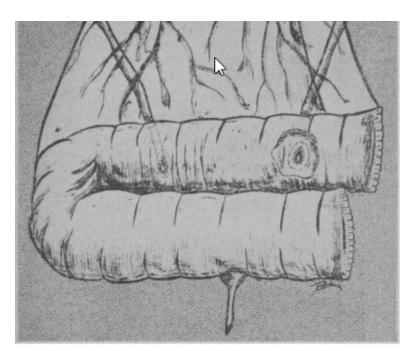


Fig. 1.-Ileal reservoir on completion of surgery.

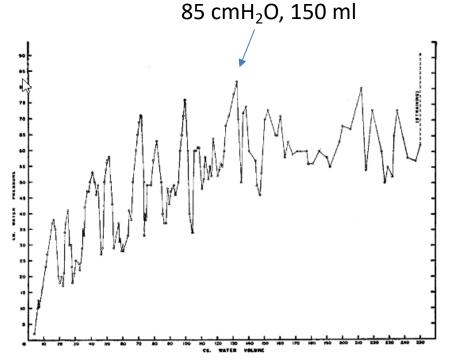


Fig. 4 (case 2).—Cystometrogram, six weeks postoperatively, demonstrating intestinal pattern.

Both were continent during the day but had some difficulty maintaining continence during the night.

25-YEAR EXPERIENCE WITH REPLACEMENT OF THE HUMAN BLADDER (CAMEY PROCEDURE)

OTTO M. LILIEN AND MAURICE CAMEY

From the Departments of Urology, Upstate Medical Center, Veterans Administration Medical Center, Syracuse, New York, and Hospital Foch, Suresnes, Paris, France

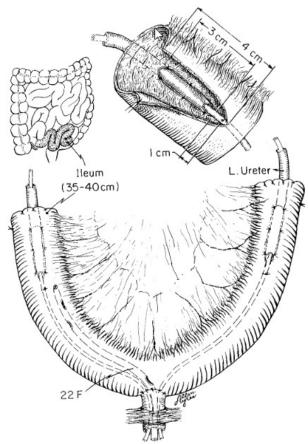


Fig. 1. Surgical technique



Fig. 4. A, patient 57. First Le Duc-Camey antireflux ureteral reimplantation performed on right side in 1977. Cystogram demonstrates reflux on unprotected left side. B, patient 66. Bilateral antireflux ureteral implantation.

"CUP-PATCH" TECHNIQUE OF ILEOCYSTOPLASTY FOR BLADDER ENLARGEMENT OR PARTIAL SUBSTITUTION

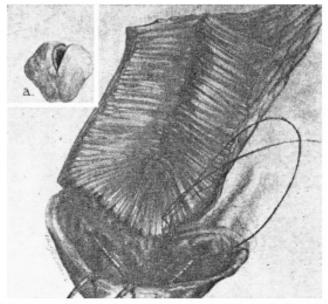


Fig. 5. After the peritoneum has been mobilized from the base of the bladder, the bladder is opened in the midline, through its vertex. The ileac patch is then sewed to the bladder beginning posteriorly in the midline and working laterally from each side using a continuous, intermittently locking catgut suture.

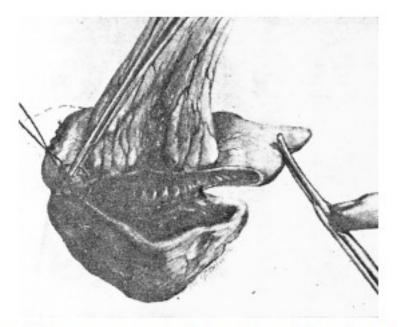
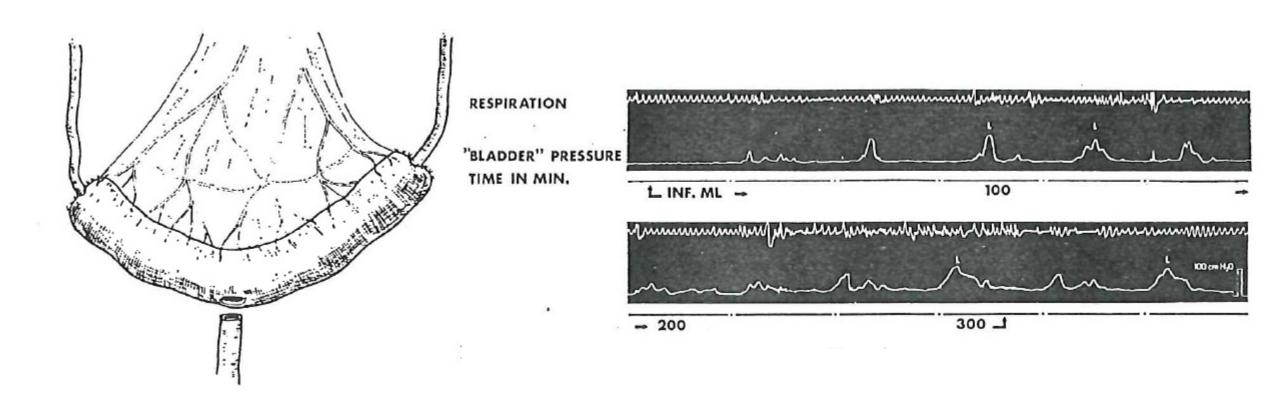
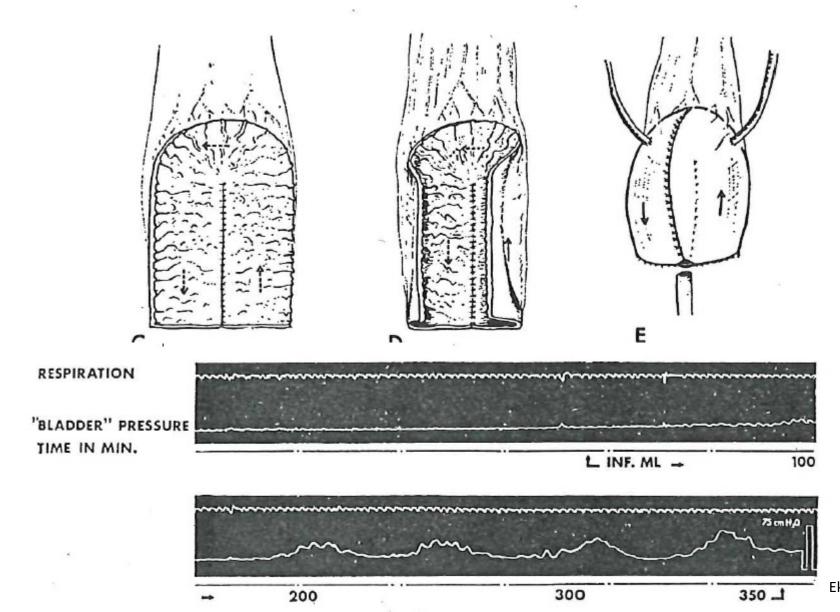


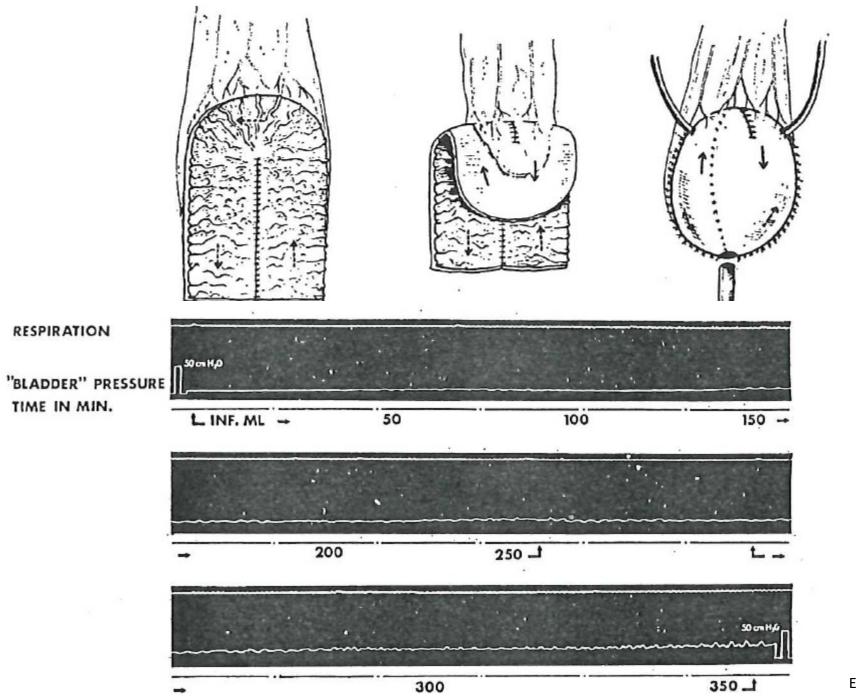
Fig. 6. In some cases redundant portions of ileum have to be excised and tailored to make the flap more cuplike. When this is done it is necessary to close the defects.

Non-split ileal bladder



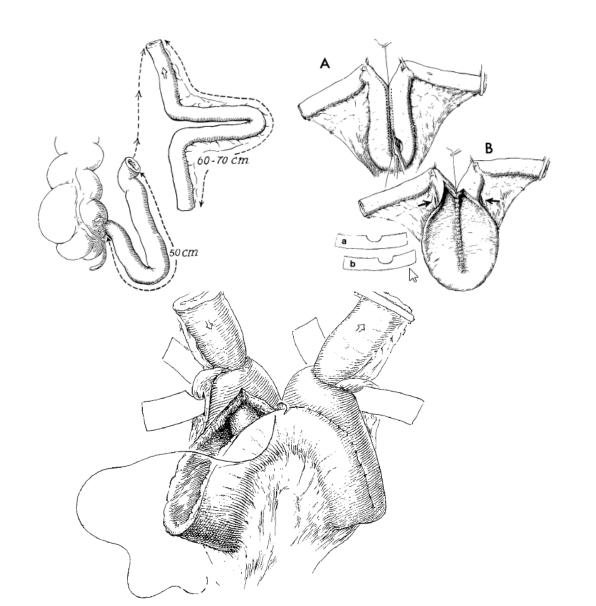
Bladder substitute described by Franksson and Giertz





Ekman et al. Congr Int Soc Urol London 1964

Urinary diversion via a continent ileal clinical results in 12 patients



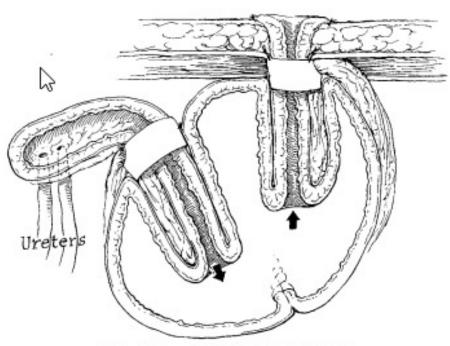
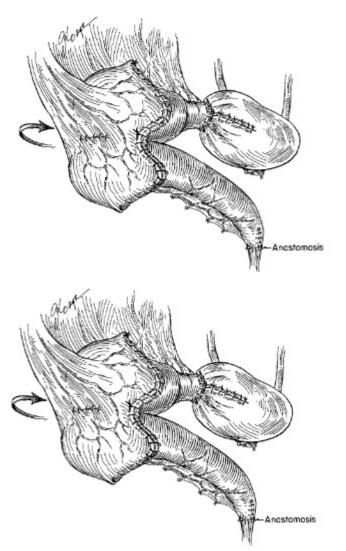
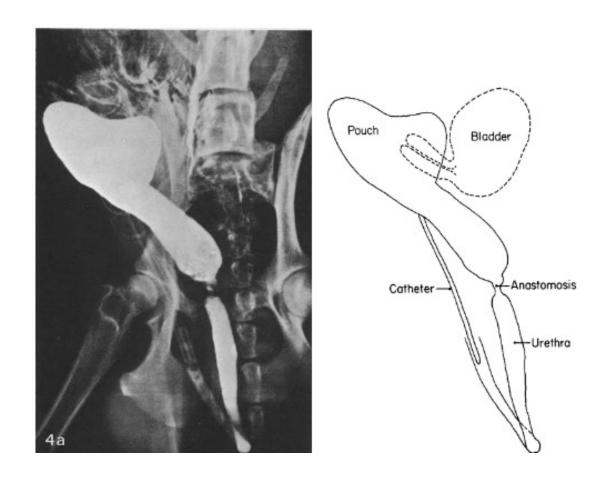
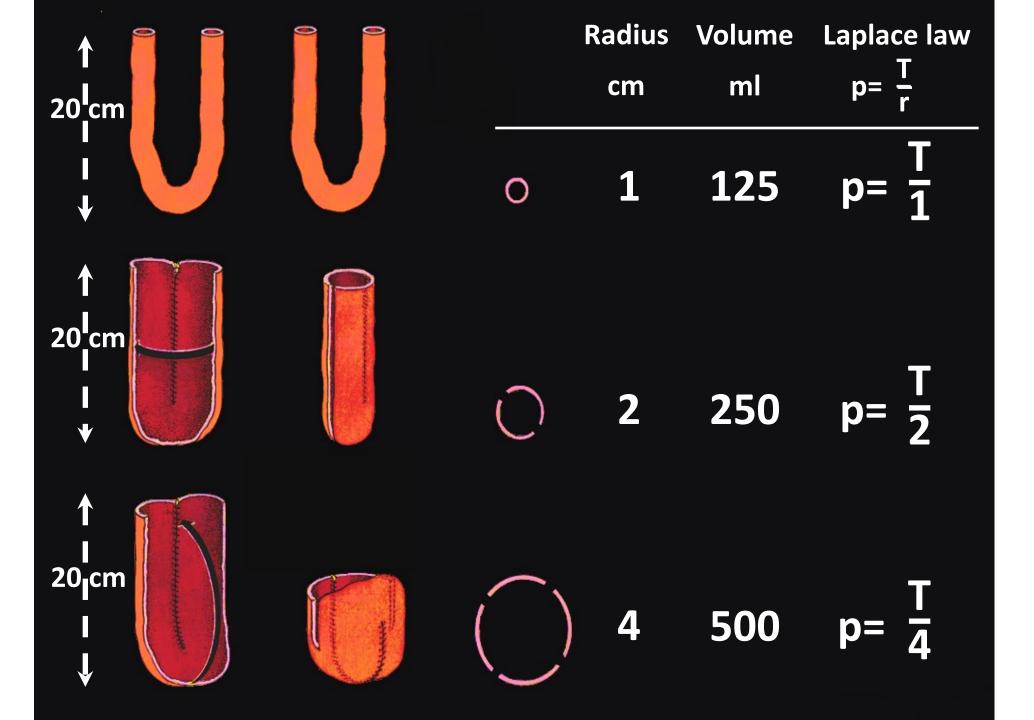


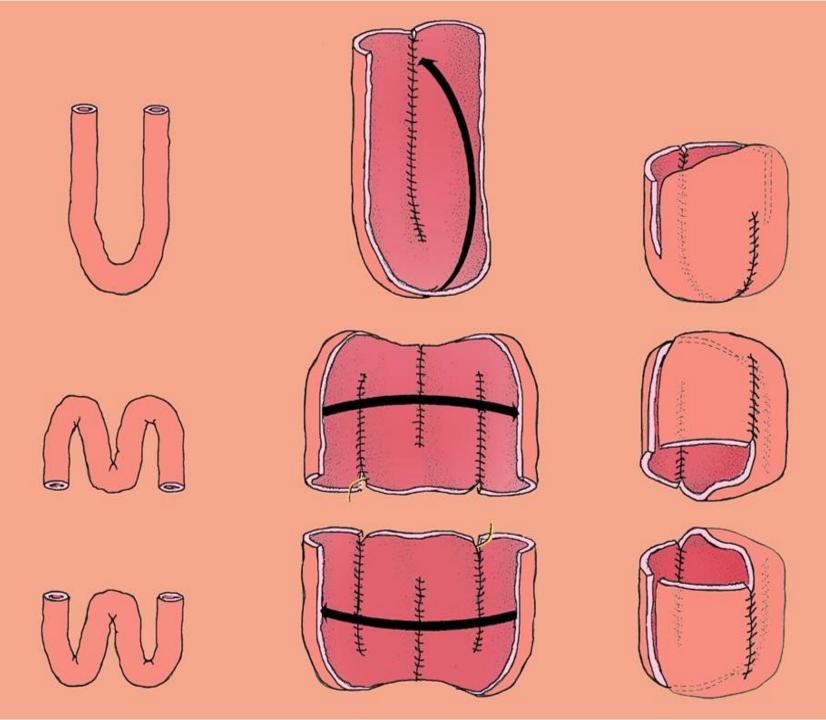
Fig. 8. Completed ileal reservoir in situ

Dog experiments

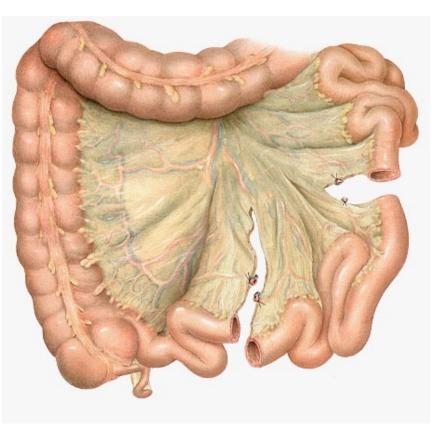


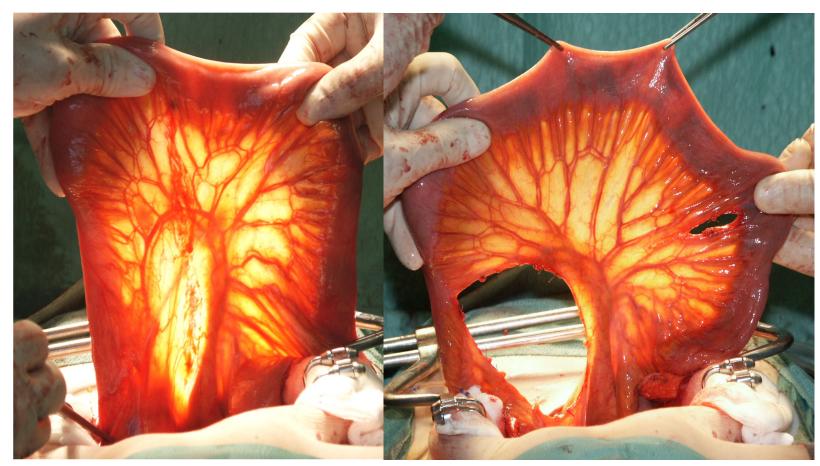


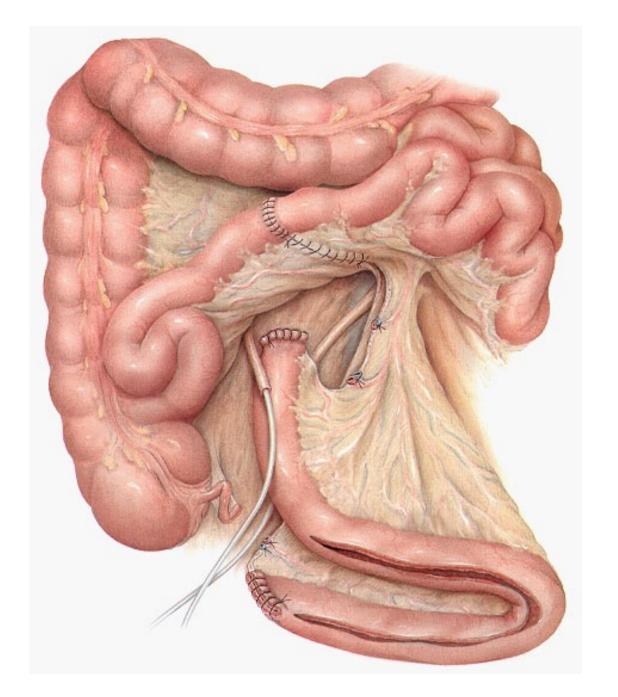


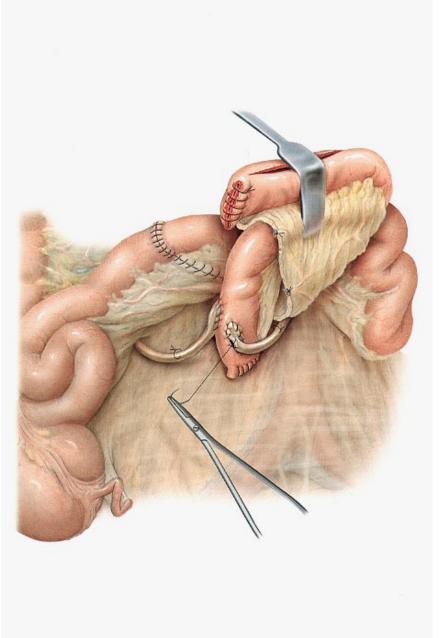


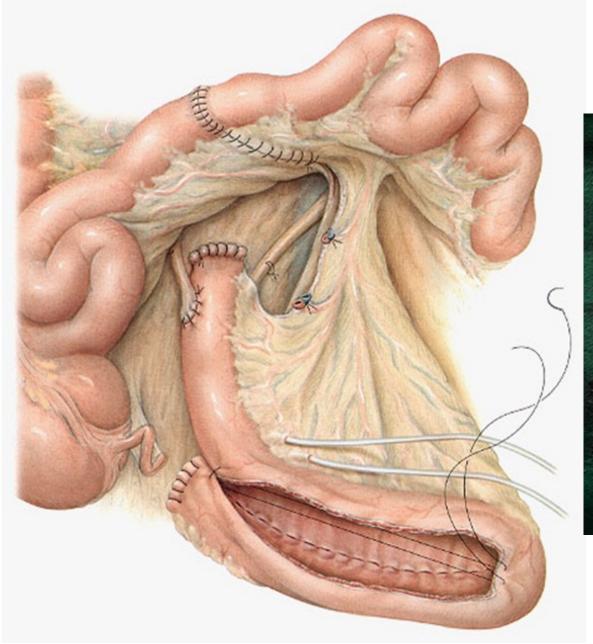
Ileal orthotopic bladder substitute (Studer)

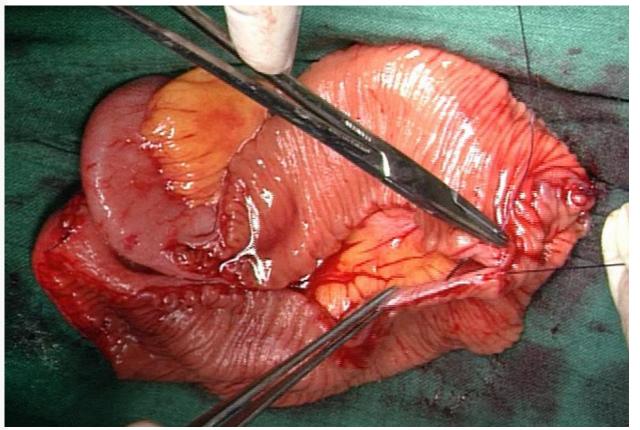


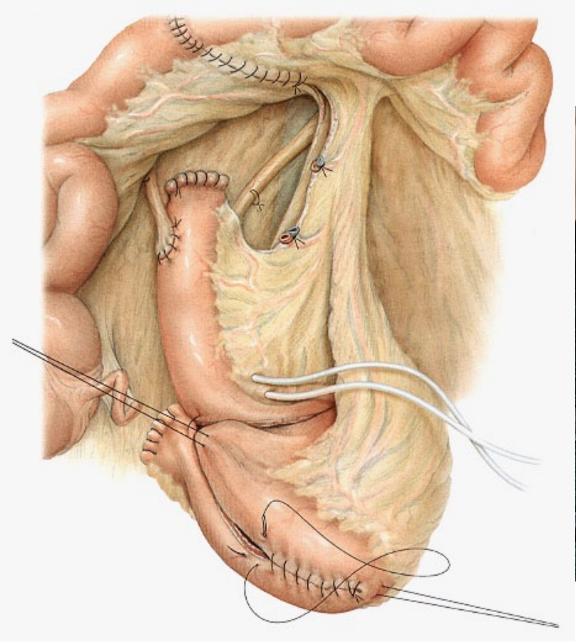


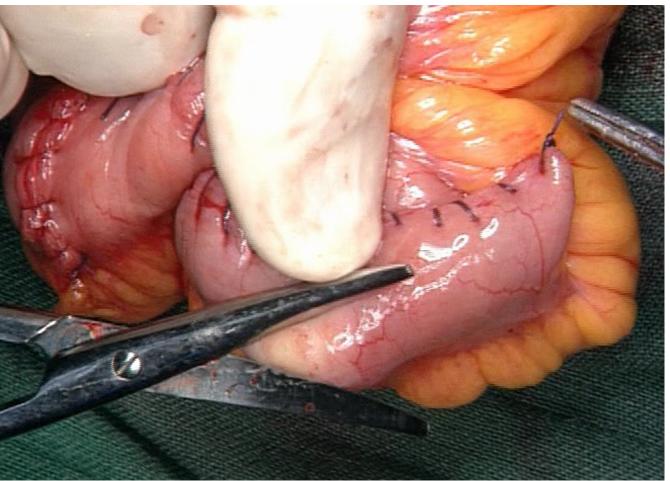


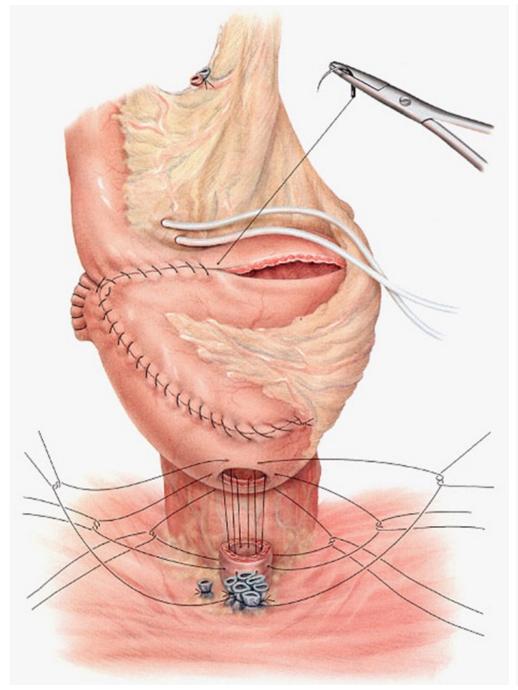


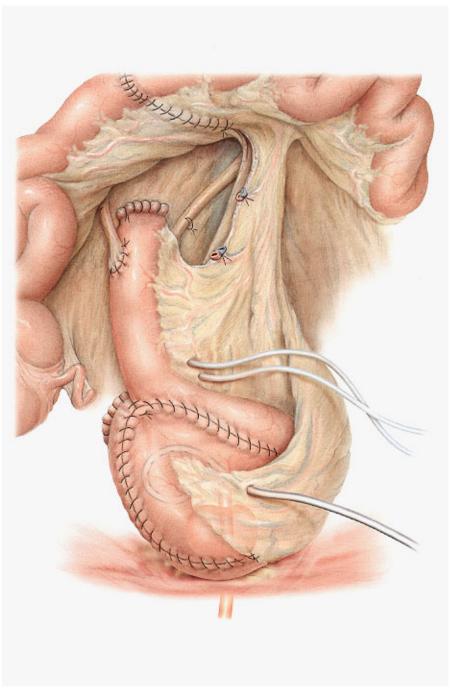


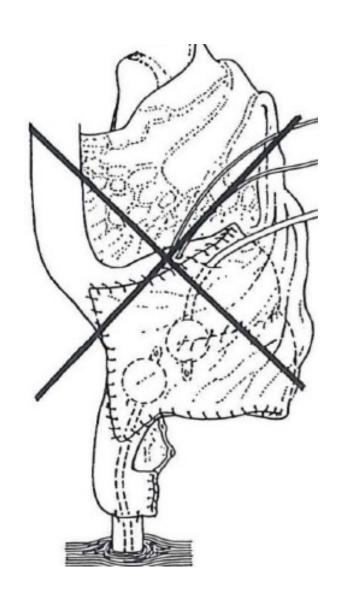


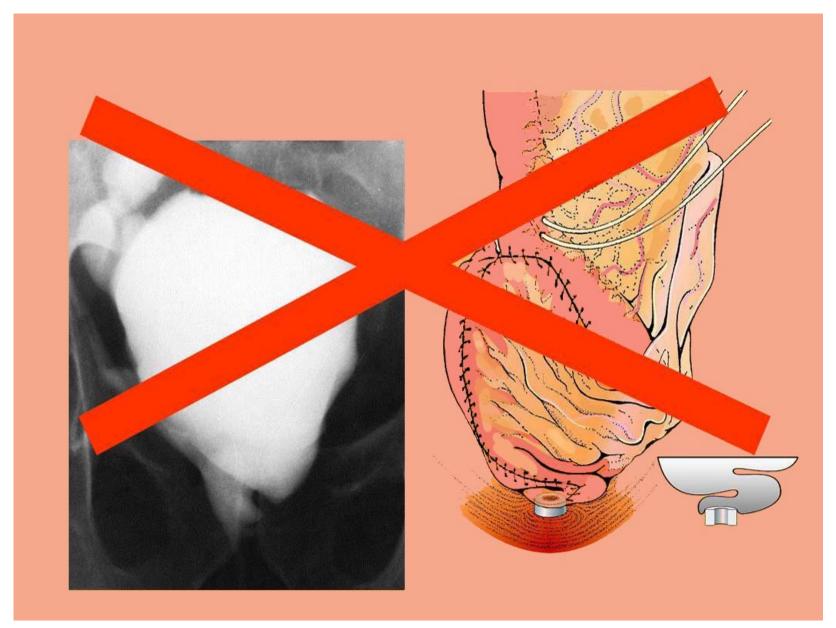












A Newer Form of Bladder Substitute Based on Historical Perspectives

U.E. Studer, D. Ackermann, G.A. Casanova, and E.J. Zingg

Seminars in Urology, Vol VI, No 1 (February), 1988: pp 57-65

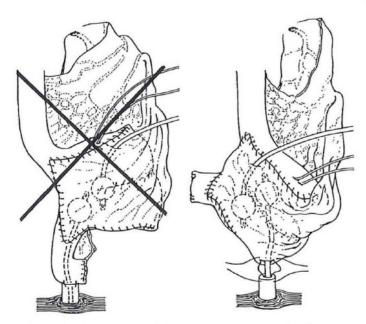


Fig 7. It is essential to anastomose the lowest part of the low-pressure pouch directly to the membranous urethra. The technique shown on the left with a short tubular segment between the pouch and membranous urethra is not recommended. Peristalsis within this segment results in intermittent incontinence due to pressure peaks of 80 cm H_2O , although the pressure within the pouch remains below 40 cm.

Summary:

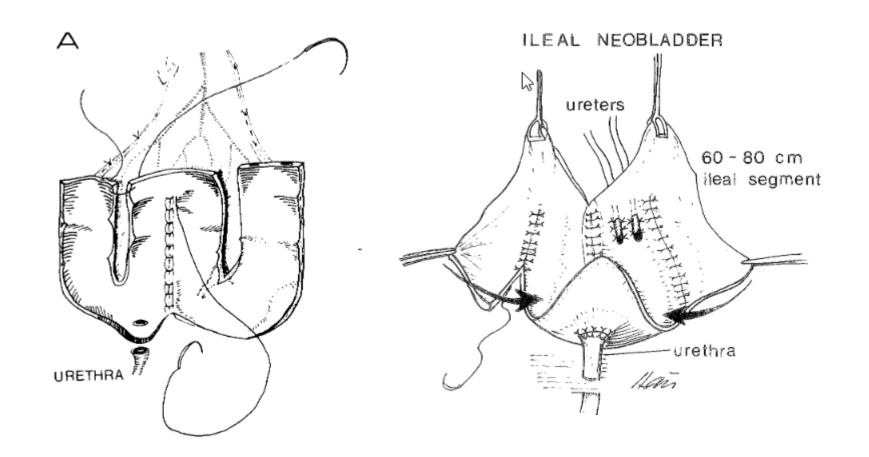
- Promising results
- Upper tract function retained after 3 years
- Limited number of selected patients
- Cannot replace Kock or ileal conduit
- May become an interesting alternative for urinary diversion in selected male patients



THE ILEAL NEOBLADDER

R. E. HAUTMANN, G. EGGHART, D. FROHNEBERG AND K. MILLER

From the Division of Urology, University of Ulm, Ulm, Federal Republic of Germany



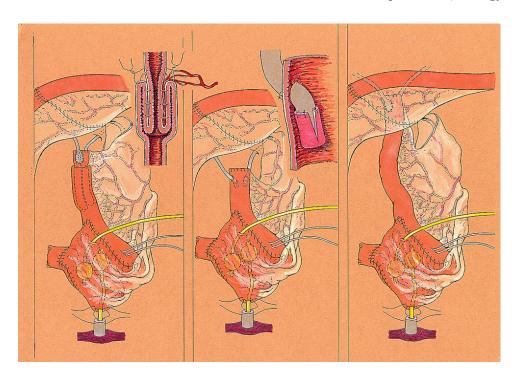
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Original Articles

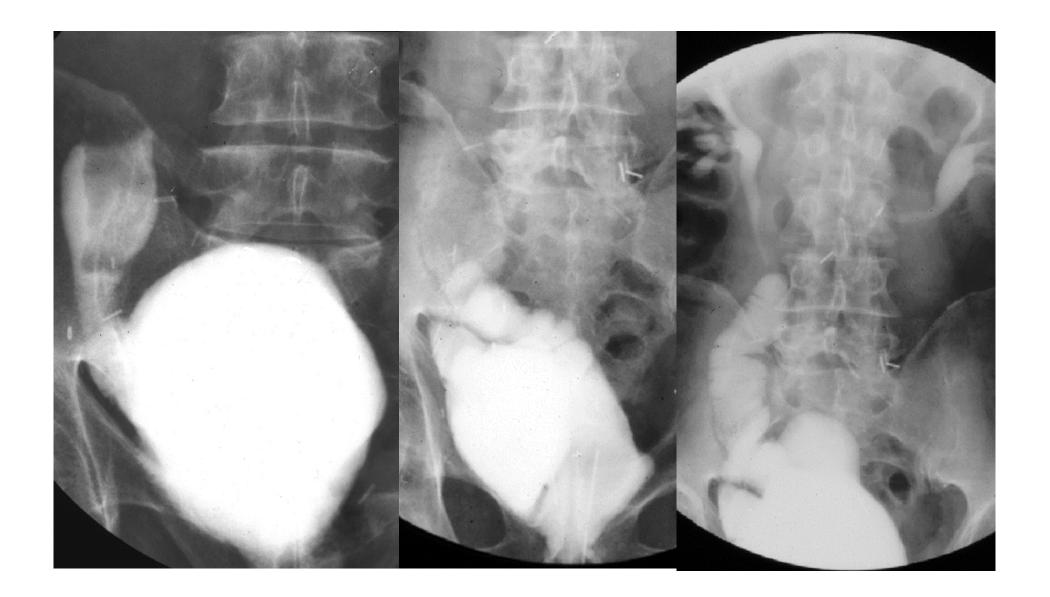
ANTIREFLUX NIPPLES OR AFFERENT TUBULAR SEGMENTS IN 70 PATIENTS WITH ILEAL LOW PRESSURE BLADDER SUBSTITUTES: LONG-TERM RESULTS OF A PROSPECTIVE RANDOMIZED TRIAL

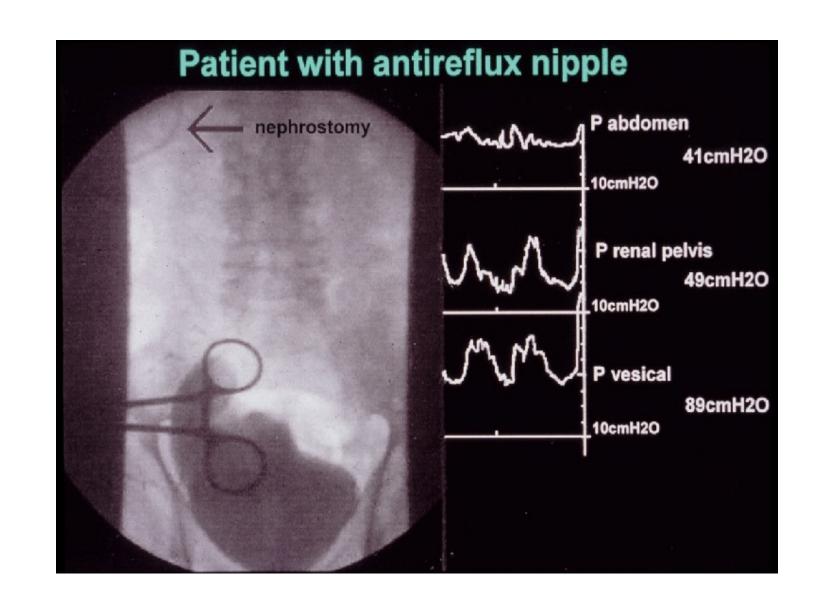
URS E. STUDER, HANSJÖRG DANUSER, GEORGE N. THALMANN, JOHANNES P. SPRINGER AND WILLIAM H. TURNER

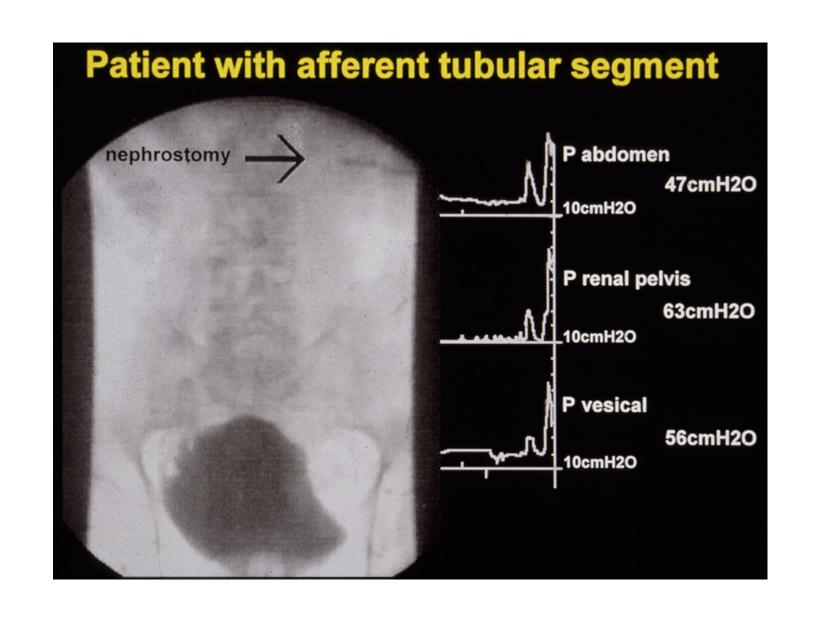
From the Department of Urology, University of Berne, Inselspital, Berne, Switzerland

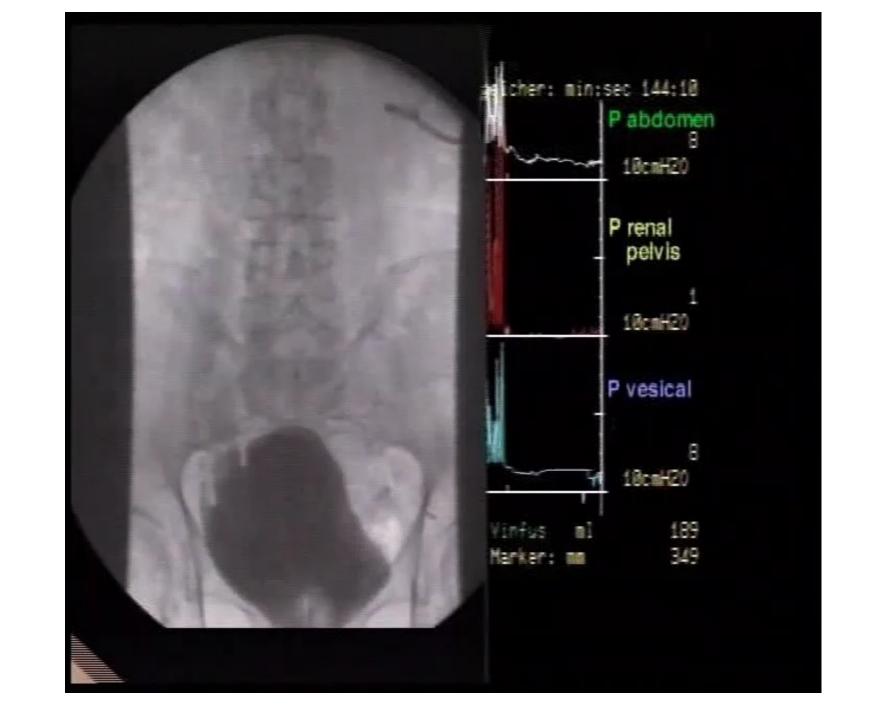


Triple nipple (intususcepted)
Split-everted
End-to-side open









9

Original Articles

ANTIREFLUX NIPPLES OR AFFERENT TUBULAR SEGMENTS IN 70 PATIENTS WITH ILEAL LOW PRESSURE BLADDER SUBSTITUTES: LONG-TERM RESULTS OF A PROSPECTIVE RANDOMIZED TRIAL

URS E. STUDER, HANSJÖRG DANUSER, GEORGE N. THALMANN, JOHANNES P. SPRINGER AND WILLIAM H. TURNER

From the Department of Urology, University of Berne, Inselspital, Berne, Switzerland

Severe upper tract dilatation due to ureteroileal or nipple stenosis occurred in **9** of 67 evaluable reno-ureteral units **(13.5%)** in patients with antireflux nipples and in

2 of 69 (3%) in patients with an afferent tubular segment.







Bladder Cancer

Intraoperative Continuous Norepinephrine Infusion Combined with Restrictive Deferred Hydration Significantly Reduces the Need for Blood Transfusion in Patients Undergoing Open Radical Cystectomy: Results of a Prospective Randomised Trial

Twenty Years Experience With an Ileal Orthotopic Low Pressure Bladder Substitute—Lessons to be Learned

To Stent or Not to Stent Perioperatively the Ureteroileal Anastomosis of Ileal Orthotopic Bladder Substitutes and Ileal Conduits? Results of a Prospective Randomized Trial

Reconstructive Urology

Bowel Function Remains Subjectively Unchanged After Ileal Resection for Construction of Continent Ileal Reservoirs

Effect of Urinary Tract Infection on Reservoir Function in Patients With Ileal Bladder Substitute



Thats why I feel so happy here







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