

2012 Advanced Endourology Programmes

Scientific

clinical excellence

product innovation

physician training

Diniment

We are committed to you... and advancing the quality of your patient care.

Advanced Course in Supine PCNL A Different Approach



Location

COTTOLENGE Ospedale Cottolengo, Torino, Italy

Course Faculty

Dr. Cesare Scoffone, Ospedale Cottolengo, Torino, Italy

Dr. Andras Hoznek, CHU Henri Mondor, Créteil, France

Dr. Gaspar Ibarluzea, Galdakao Hospital, Bilbao, Spain

Course Overview

The Advanced Course in Supine PCNL offers a 1.5 day programme aimed at the demonstration of the supine approach to PCNL. The course will cover anatomy, patient positioning, access, tips and tricks. The session is comprised of a combination of didactic presentations and live case observation directly in the operating theater.

Agenda Day 1

15:00 - 15:15 W	elcome to participants
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15:15 - 15:45 OR setup and armamentarium

15:45 - 16:30 Anatomy, patient positioning

and access techniques

16:30 - 17:00 Tips and tricks of the supine approach

17:00 - 17:30 Case presentation and discussion

17:30 - 19:30 Free Time

19:30 - 21:30 Dinner

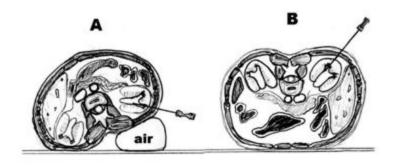
Agenda Day 2

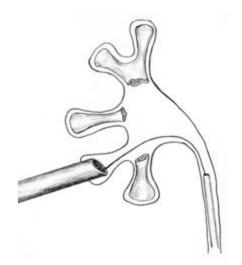
07:45 - 08:00	Departure from hotel to Ospedale
	Cottolengo

08:00 - 14:30 Live cases in the operating theater

15:00 Airport transfer

The Evolution from Prone to Supine and from Supine to ECIRS.





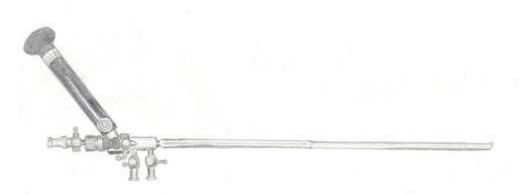
Gaspar Ibarluzea
Urologia Clinica Bilbao
Bizkaia, Basque Country
Spain

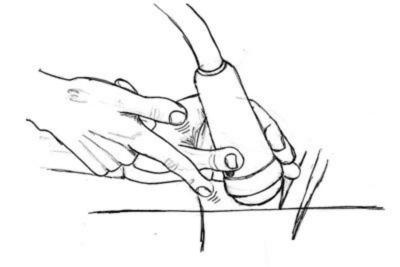


Endourology was born in the early 80's of last Century. Dr Peter Alken, in percutaneous renal surgery and Dr Enrique Perez Castro, in transurethral ureteroscopy were for our group the reference figures.

We started the practice of rigid ureteroscopy at the end of 1984 thanks to our close relationship with Dr Perez Castro.

By the middle of 1985 we started working with percutaneous renal surgery following Dr Alken method and we learned from the beginning to make the ultrasound guided punction as it seemed to us the simplest and safest way to reach the kidney cavities.





In those years there was nobody near to us from whom to learn, three books, published before 1985, were our sources:

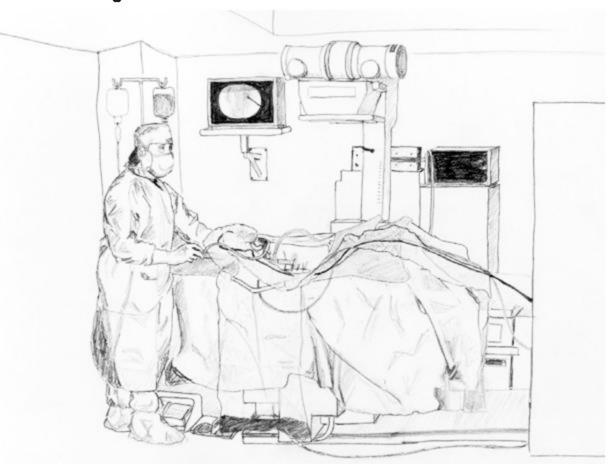
Percutaneous Renal Surgery. Wickham J.E.; Miller R.A. 1983

Percutaneous Surgery of renal Stones. Technics and tactics. Korth K. 1984

Techniques in Endourology: A guide to the percutaneous removal of renal and ureteral calculi. Clayman R.V.; Castañeda-Zuñiga W. 1984

We specially considered Dr Knut Korth book as the Bible in PCNL in those days. It was a time before extracorporeal lithotripsy and therefore abundant cases with which to practice the technic. We were very lucky because this situation allowed us to choose the best calculi to improve our learning curve.

In 1989 a new period started for us with the opening of our lithotripsy section with a Dornier HM4 lithotriptor and an endourological OR



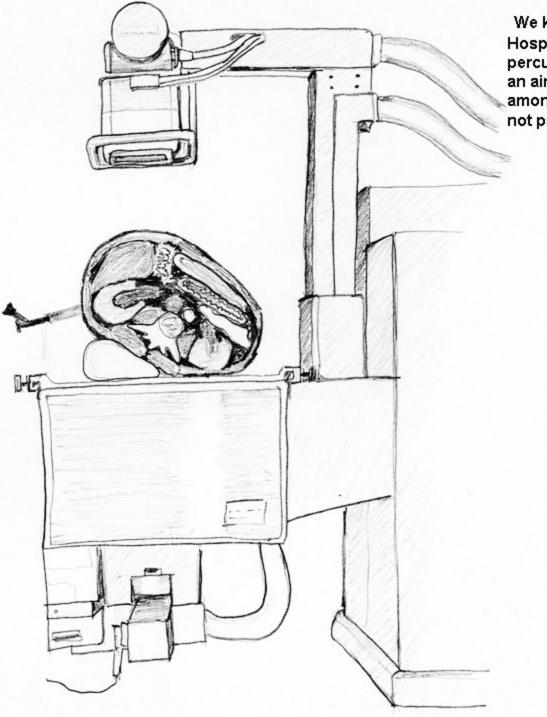
Our operating room exclusively for endourology, was an exact copy of the one that Dr Korth had in the Loretto Krankenhaus of Freiburg with a Philips radiological table specific for urology. This operating room gave us a great agility for our urological practice in all procedures where x-rays were needed, but we soon started to find several problems for the percutaneous renal surgery.

The radiological table only allowed access by one side. When the case involved a right kidney, after placing the uretheral catheter we had to turn the patient over to put him in prone position. This, even though time consuming, was fairly simple.

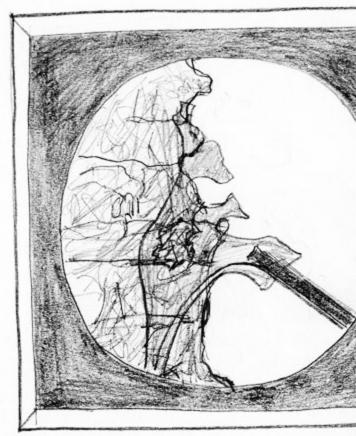
When the kidney was the left one it was much more complicated. We had to turn the patient around 180 degrees and then turn him over, all this to a patient with general anaesthesia with a catheter in place and in a relatively small operating room full of anaesthesia equipment and urology instruments. In cases of large lithiasis erroneously



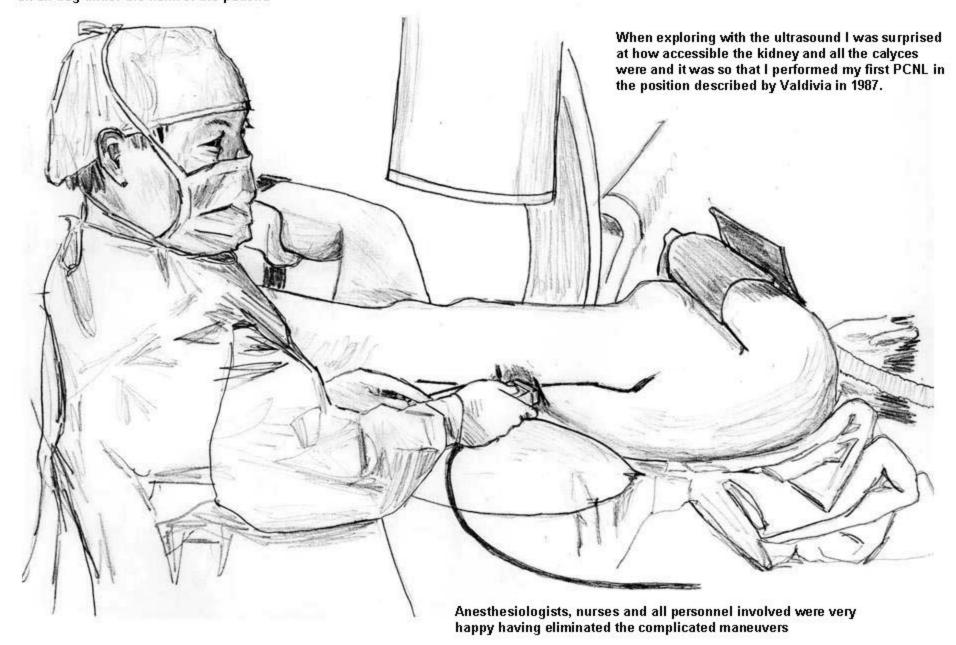
The radiological table had moreover another problem that just had an anteroposterior projection, even though this didn't affect us very much as ways made the initial puncture with ultrasounds.



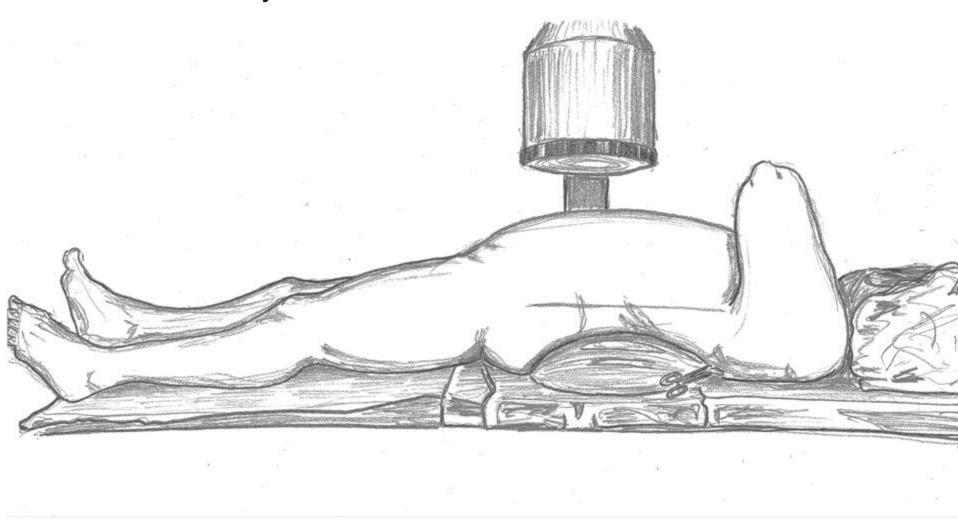
We knew the papers of Dr Gabriel Valdivia of the Hospital Clinico Universitario de Zaragoza, on the percutaneous renal surgery in supine position with an air bag on the flank, but given the prevailing view among the great popes of the endourology, we did not pay much attention.



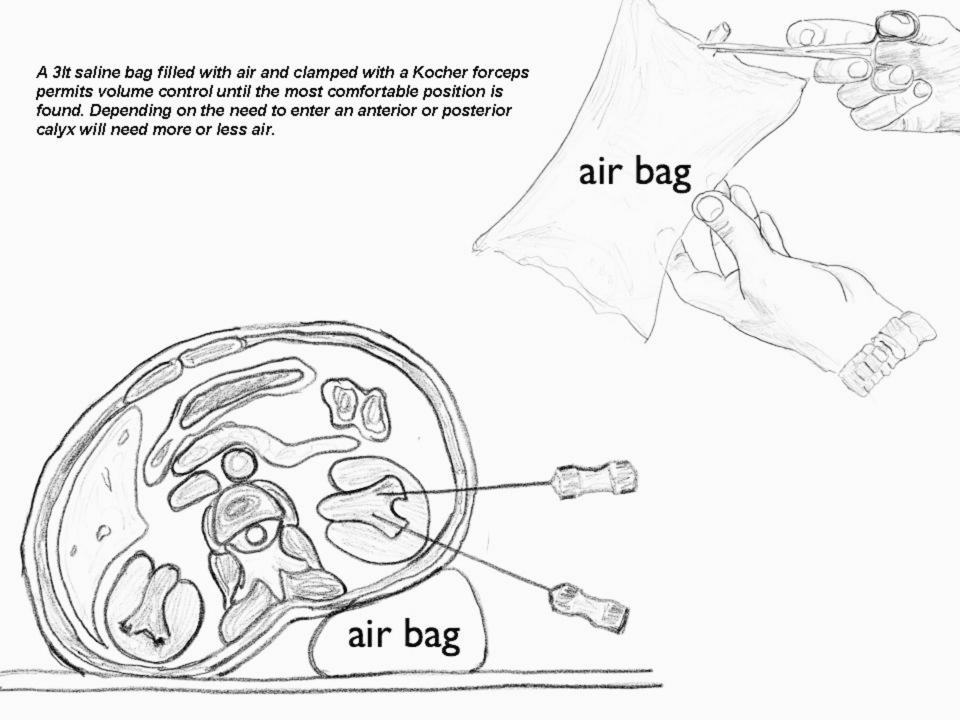
One certain day, at the end of 1992, in a left kidney case, tired of so many complicated maneuvers, after placing the ureteral catheter, I had the idea of putting an air bag under the flank of the patient.

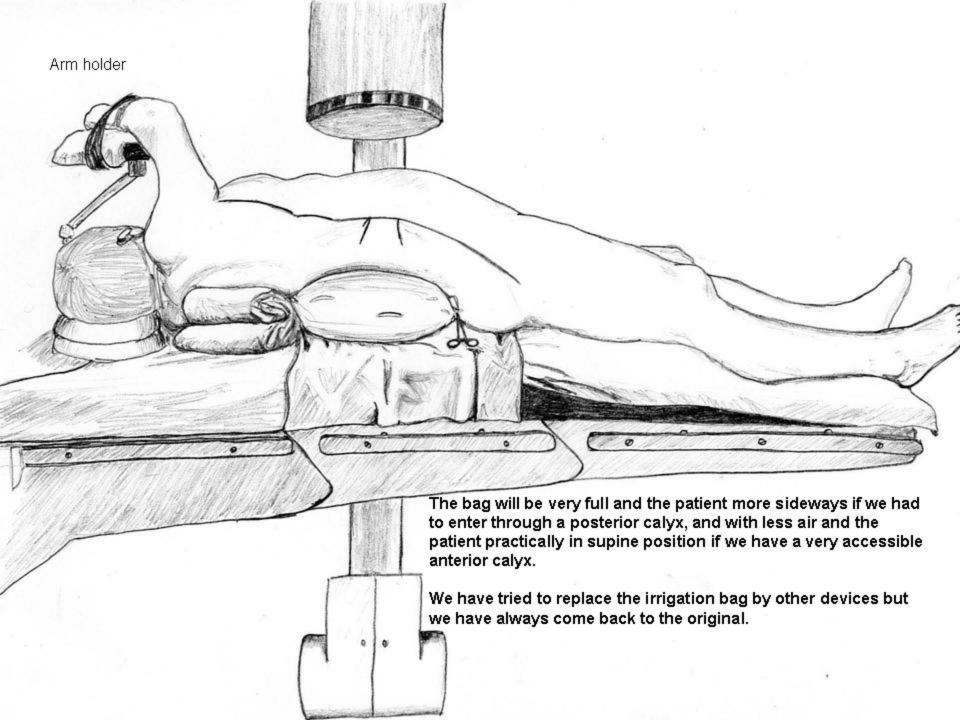


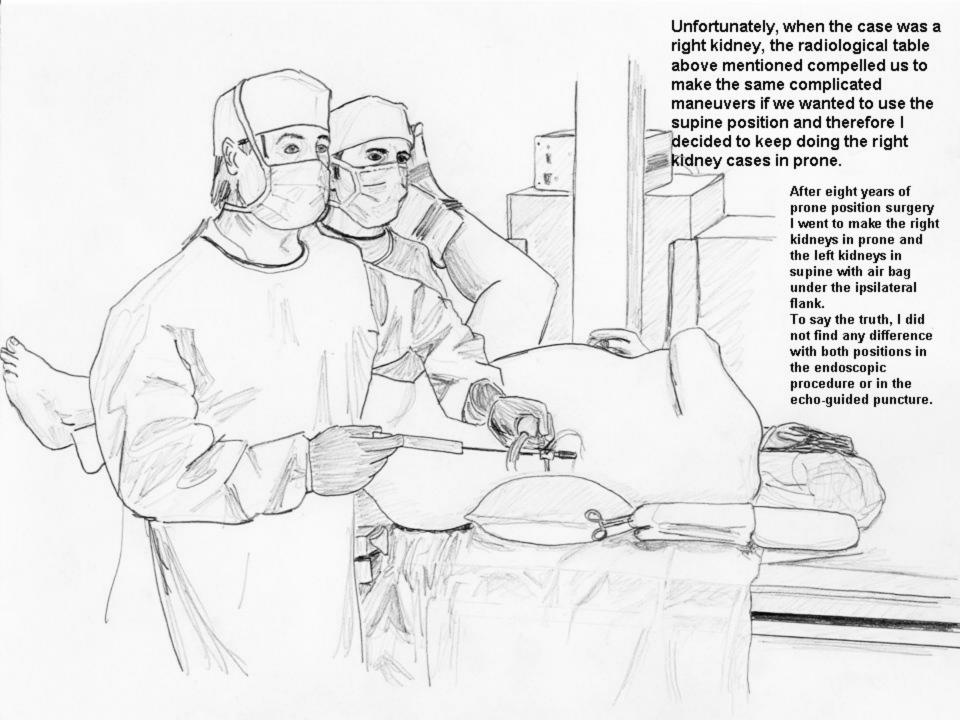
Position described by Dr Gabriel Valdivia in 1987

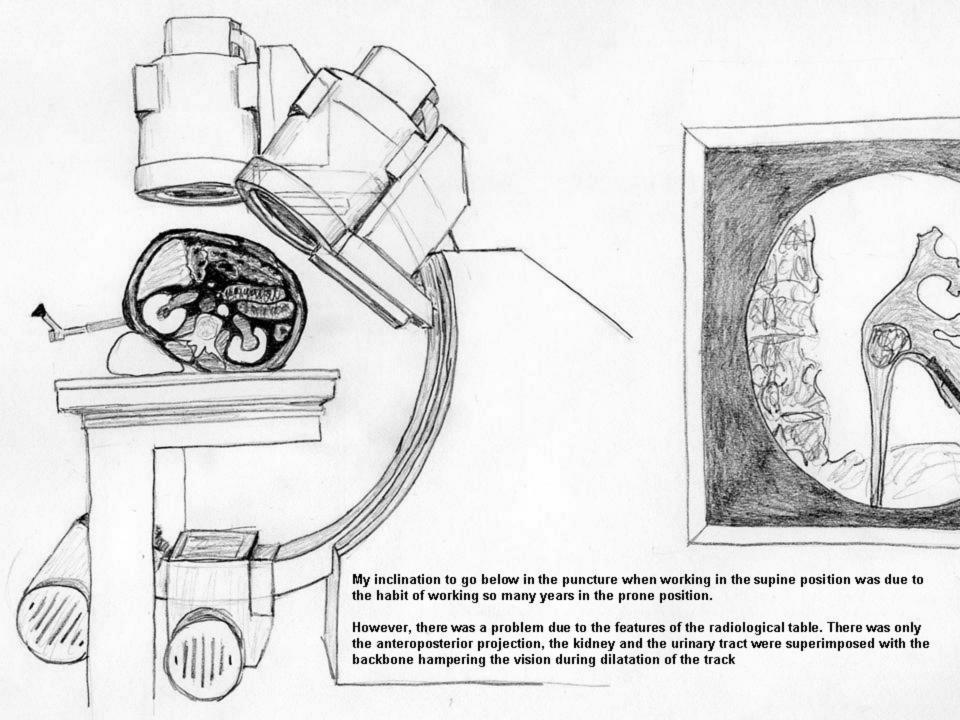


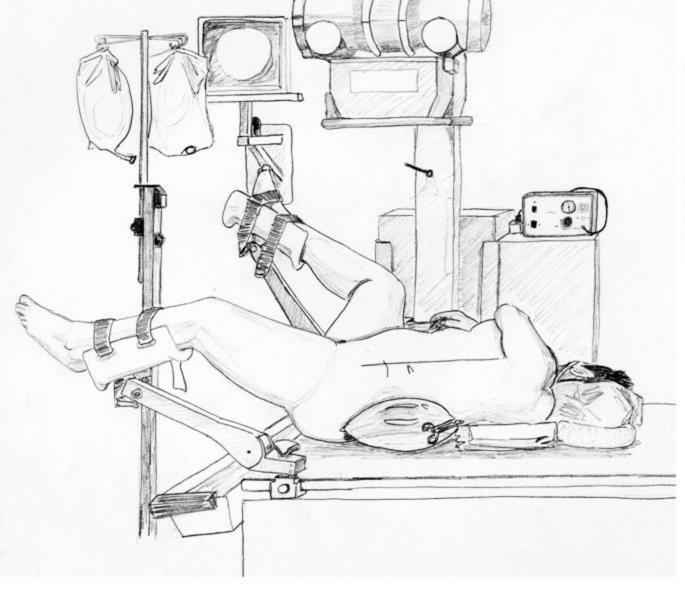
We started the percutaneous renal surgery in supine with the same protocol we have been using in prone. Lithotomy position, catheterize the ureter and then change the field placing the patient in Valdivia position and leaving the transurethral way with a perfusion of contrast and dye trought the catheter.





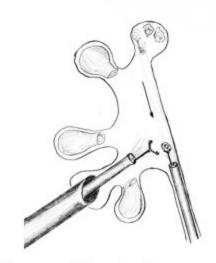




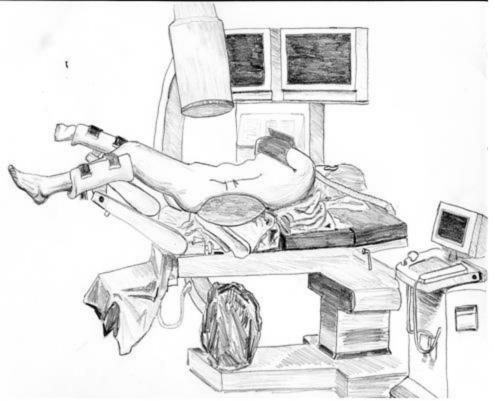


Gradually we developed a more comfortable position for the patient and for the surgeon, finding more appropriate leg holders. The ipsilateral leg extended and with a small knee flexion and the contralateral leg well abducted

A short time after starting to operate on the Valdivia position, we found ourselves, at the end of a PCNL, with a large number of fragments lodged in the distal ureter. The case was a woman with a SWL due to a calculus of considerable size in the left kidney. After a long time fighting to remove the whole stainstrasse my assistant asked for a rigid ureteroscope, dismantled the field and improvised a transurethral access with the patient in supine position and the knees flexed.

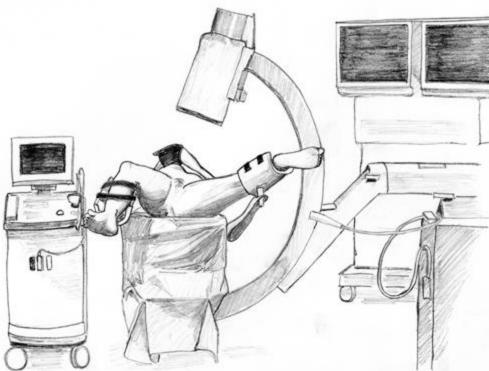


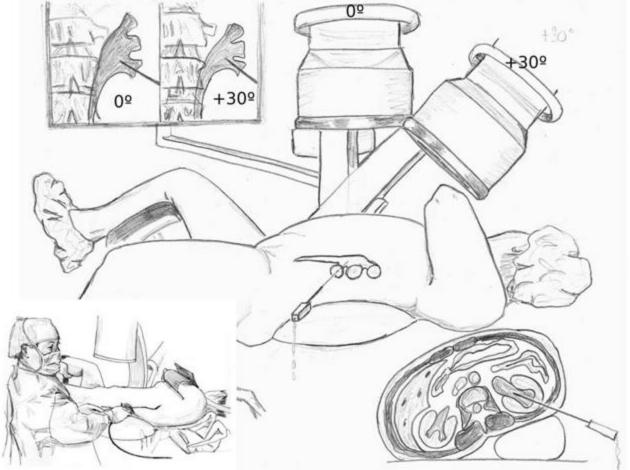
We very quickly solved the case and numerous fragments pushed upwards were easily extracted by the amplatz.



In the late 90's, after 10 years of intensive work, our Philips table broke down and for budget reasons it was decided not to repair it, which we did not mind as we discovered that the ideal place to work with our position was a large conventional operating room with a good radiolucent table and a good fluoroscopy C arm

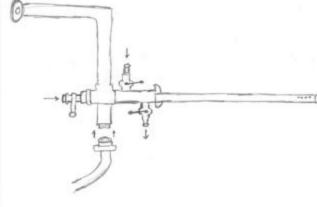
Soon we learned that the best place for this technique was the standard operating room with a good C arm. With a small shift in the orbital axis, 10° or 20°, we get an interference free X-ray image.

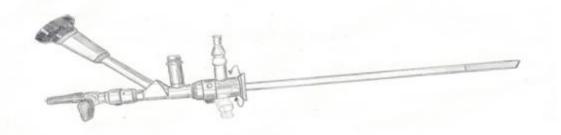




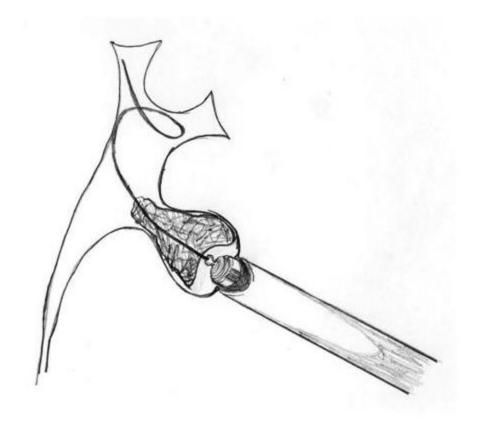
The perfect punction tecnic. The ultrasound exploration and puncture, complemented with the fluoroscopic trick, 30° sagital projection with the C- arm, simplify, increase feasibility and minimize radiation exposure.

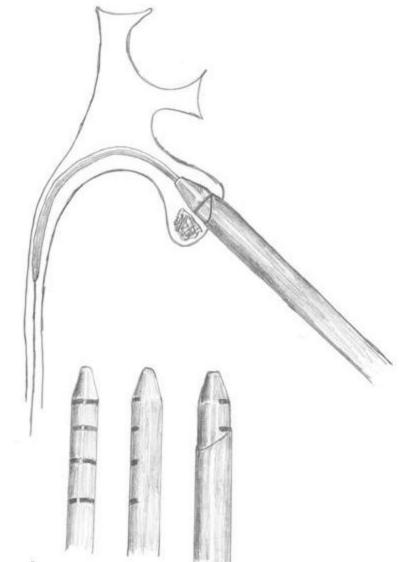
In this type of surgery all details have to be taken care of: suitable nephroscopes, ergonomically leg holders which do not protrude laterally too much, etc.
But what is critically important is a correct positioning of the patient, not starting the procedure until one feels reasonably comfortable and having explored the possible access with ultrasound and X ray





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Drawings by : Mikel Gamarra Urologia Clinica Billbao Galdakao Hospital Bizkaia

