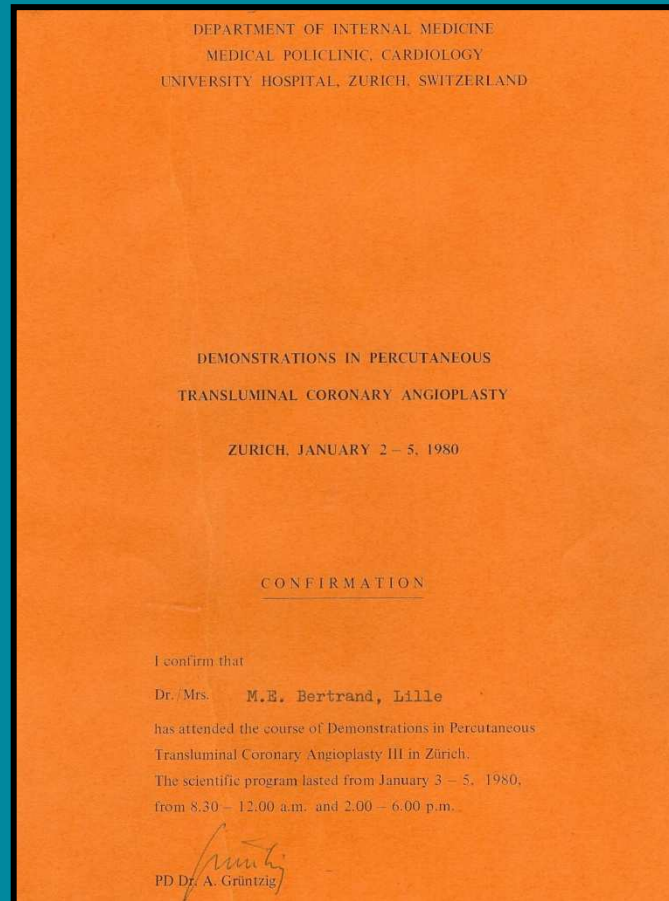


## **Section 13**

### **The steerable catheters**

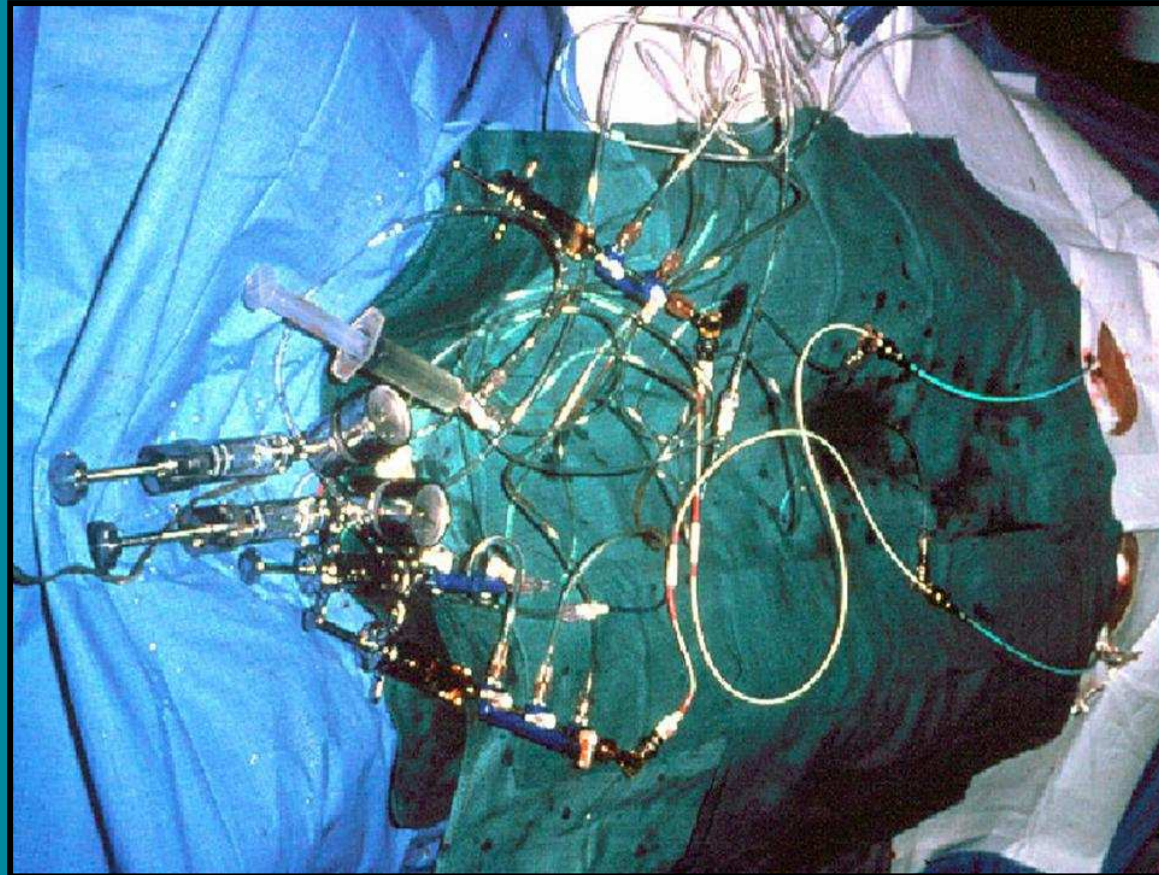
**Michel E. Bertrand and Martin Kaltenbach**

## The steerable catheters



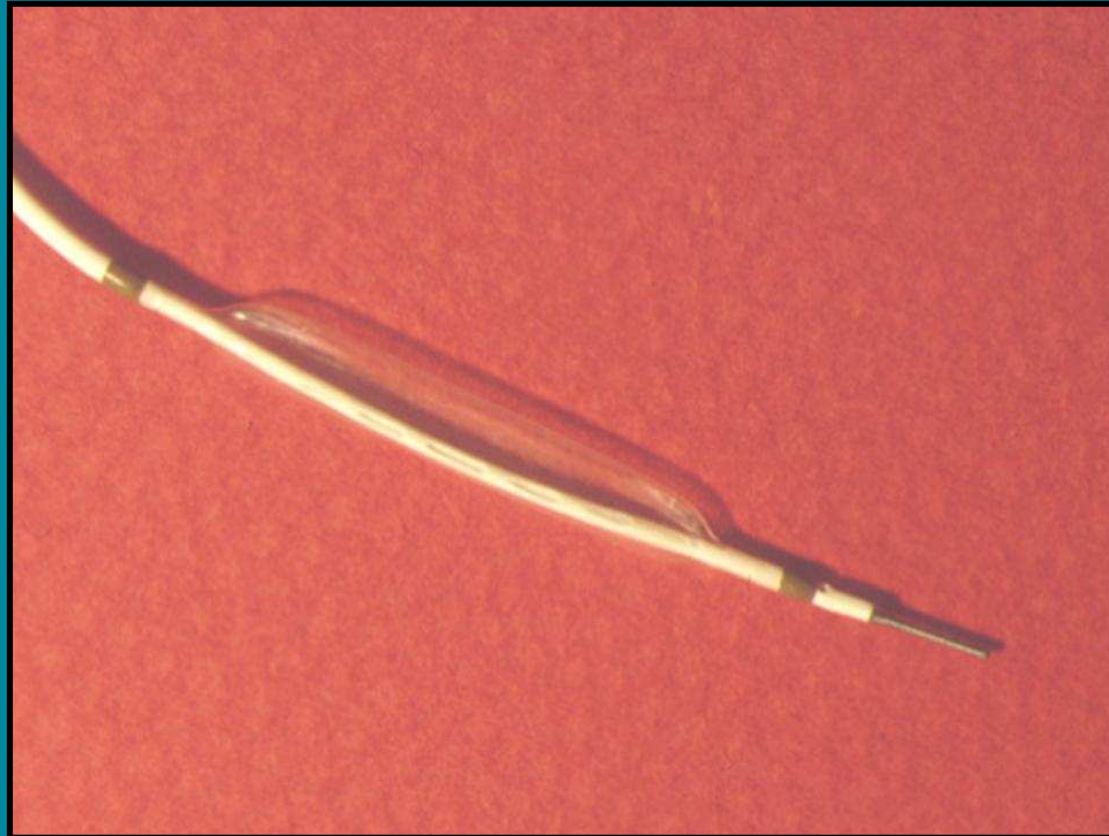
Diploma required to order the Schneider balloon catheter

## The steerable catheters



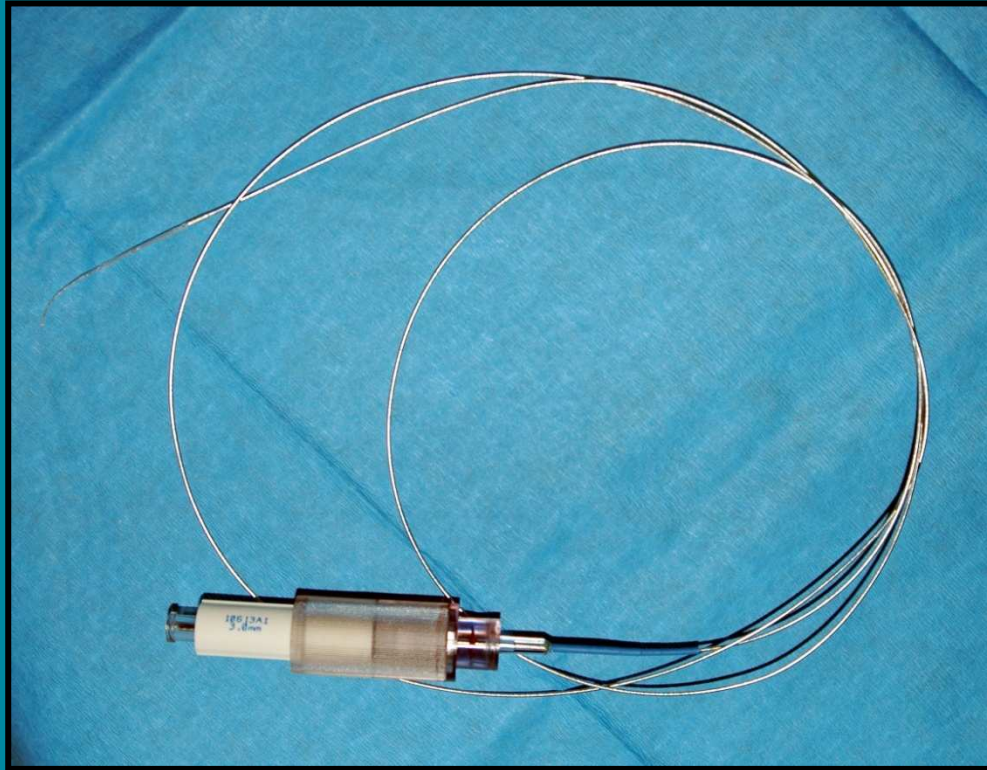
A very busy operative field

## The steerable catheters



Balloon dilatation catheter with a fixed distal wire

## The steerable catheters



Omniflex system

## The steerable catheters



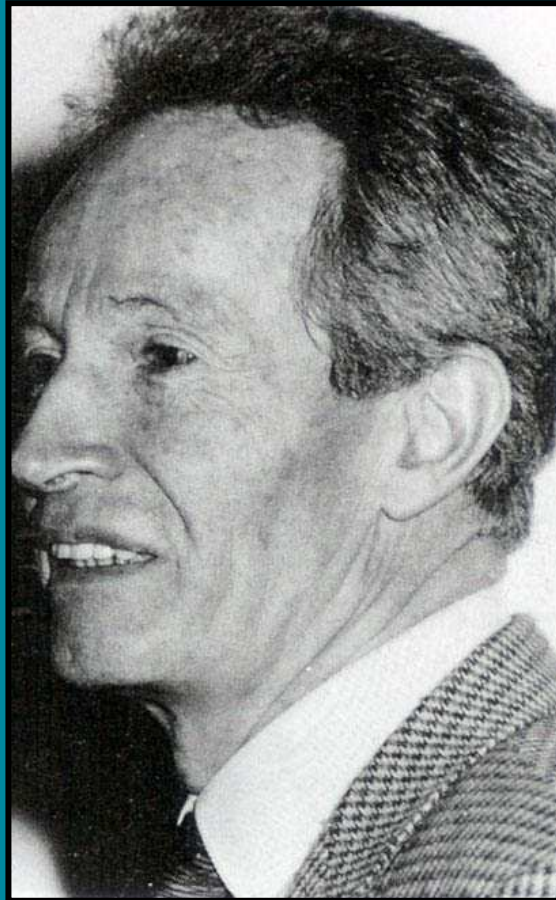
John Simpson

## The steerable catheters



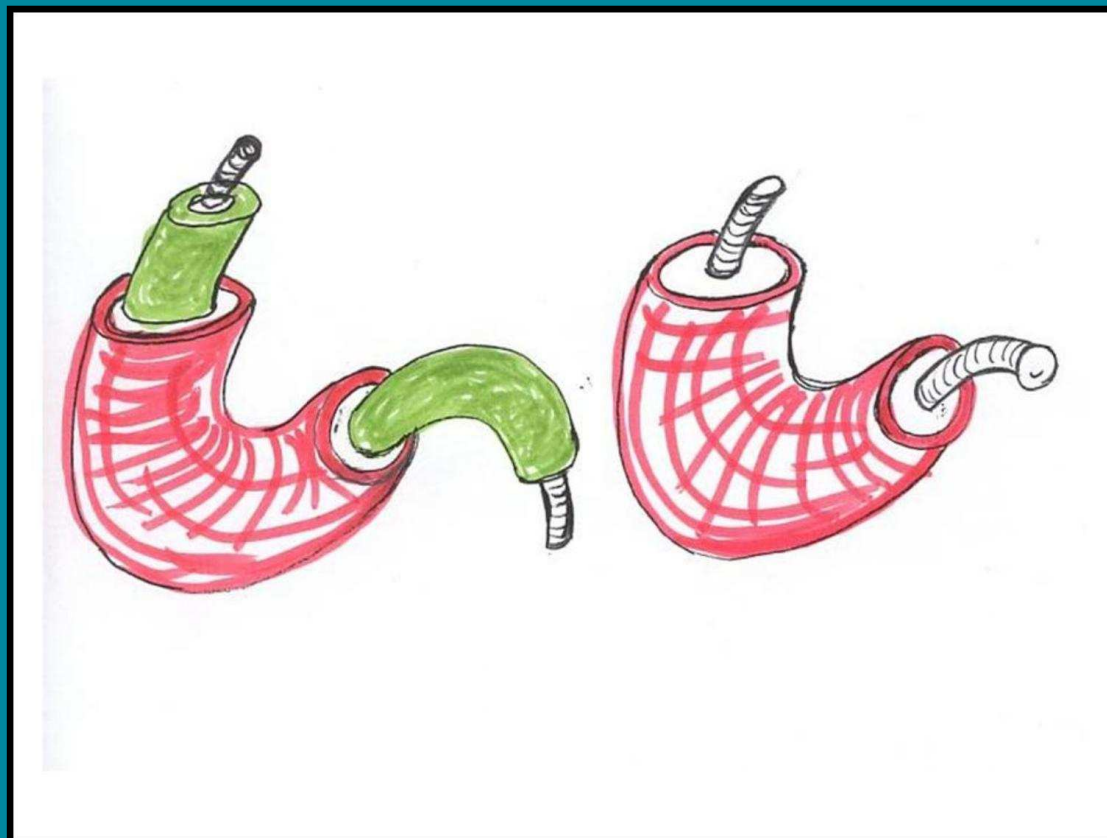
Sven-Ivar Seldinger

## The steerable catheters



Martin Kaltenbach

## The steerable catheters



The guiding catheter is obstructed by the balloon catheter (left). Introduction of the guide wire alone (right) does not obstruct the guiding catheter and allows sensitive manipulation without friction and unhindered contrast injection

## The steerable catheters



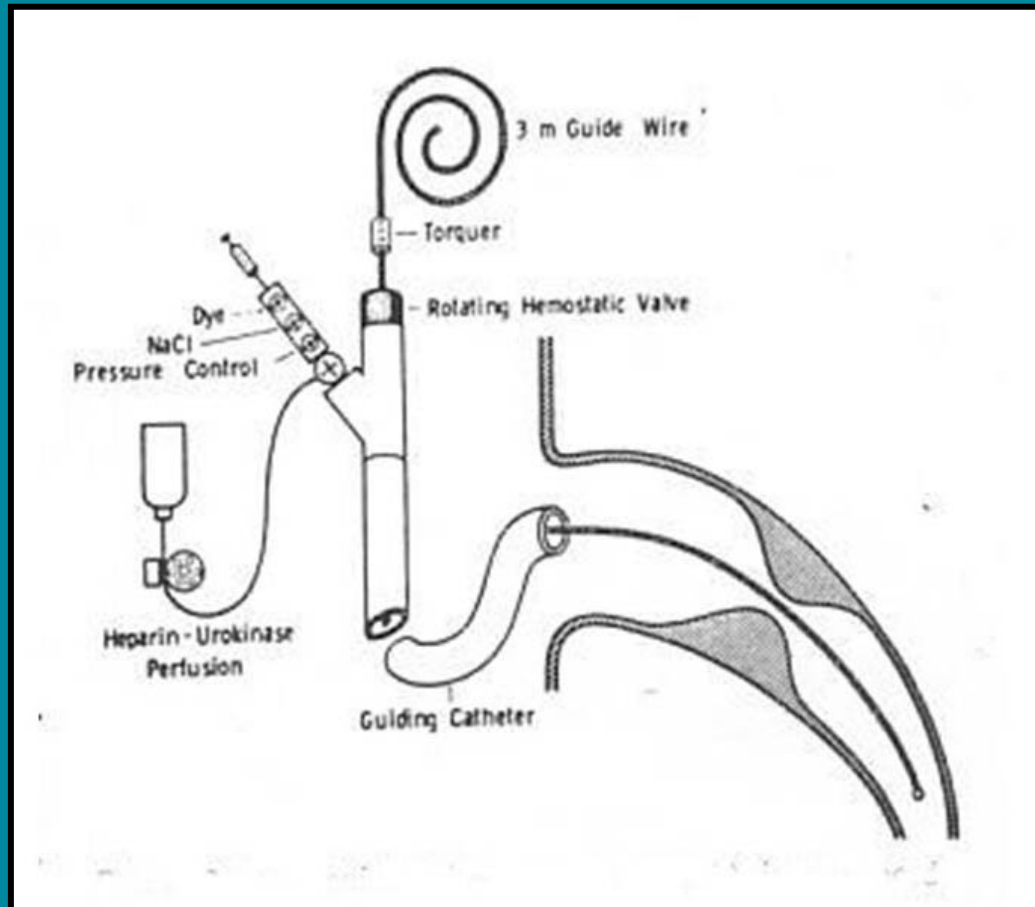
The long wire equipped with a ball-shaped tip

## The steerable catheters



Torquer is fixed to the guide wire with a coil, allowing easy manipulation for rotation and longitudinal movement. It is opened by a split

## The steerable catheters



Schematic description of the long wire technique