**Appendix**

After completing some 25 clinical PCI cases (Ms. M. Schlumpf, personal communication) Andreas has compiled sufficient procedural knowledge-base for him to organize the first course in percutaneous coronary transluminal angioplasty (PTCA)/ percutaneous transluminal angioplasty (PTA) in 1978 in Zürich.

In order to teach the techniques Andreas has needed to explicate at least some of his newly acquired procedural knowledge and skills to communicate those principles to the summoned colleagues. However, as far as we know, no written notes concerning either the descriptive or the procedural knowledge are extant. Table reviews the dates and attendance of Dr. Grüntzig’s Zürich courses.

|  |  |  |  |
| --- | --- | --- | --- |
| **Course number** | **Number participants** | **Dates** | **Number of life- cases and involved vascular territory**  |
| 1 | 28\* | August 7-10,1978 | PTCA (coronary) 7 PTA (femoral) 2 PTA (renal) 1 |
| 2 | 97 | April 9-12,1979 | PTCA (coronary) 5 PTA (renal) 1 |
| 3 | 171 | January 2-5,1980 | PTCA (coronary) 5 |
| 4 | 221 | August 3-7,1980 | PTCA (coronary) 7 |

**Table:** Andreas Grüntzig teaching courses in Zürich during 1978-1980.

\*The final number of attendees was actually higher (n=35) (personal communication Ms. M. Schlumpf).

It is important to recognize that Andreas has not only pioneered the technique of PTCA but also introduced a new teaching tool: life- case demonstration. Performing interventions live that is without the protecting “safe net” of post hoc analysis, has allowed the audience for the first time to witness the unfiltered dynamics of the recursive decision making process applicable to catheter-based cardiovascular interventions. Direct and unfiltered access to interventional therapies in life-case demonstrations has soon become an important and indispensable teaching tool worldwide allowing free and open transfer of procedural interventional knowledge.