Vascular & Interventional Radiology Symposium for Medical students

STENTING and ANGIOPLASTY

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MUSC HEART & VASCULAR CENTER
“It’s a gross oversimplification of course, but it means to me that if a plumber can do it to pipes, we can do it to blood vessels”
1974 — Andreas Gruentzig performs first peripheral human balloon angioplasty
## ENDOLUMINAL STENT-GRAFT ASSOCIATED CONDITIONS

- **Severe coronary disease**: 54 Patients
- **Acute myocardial infarction**: 23 Patients
- **Severe pulmonary disease**: 26 Patients
- **Renal failure**: 5 Patients
- **Hepatic failure**: 1 Patient
- **Intermittent claudication**: 33 Patients
- **Stroke**: 10 Patients
- **Hostile abdomen**: 2 Patients
- **D.I.C.**: 1 Patient
High Risk Patients: ASA III and IV
Hostile Abdomen
PROTOTYPES

- Self-expandable box with a zig-zag configuration covered with nylon.
- Silastic bag with cylindrical lumen.

“Both designs were abandoned due to the poor result during animal experimentation”
ANIMAL STUDY
AORTO-UNI-ILIAC STENT-GRAFT

1991
FIRST AAA TREATED WITH A MODULAR BIFURCATED STENTOR DEVICE BY DR. CLAUDE MIALHE
Excluder  Zenith  AneuRx
Tributary Iliac Bifurcation System
1 Month Follow-up