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## Less invasive intraoperative laser-VT-ablation

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While ventricular fibrillation is often induced by acute ischemia or the immediate sequelae of it, ventricular tachycardia (VT) are mostly due to a pathological substrate such as even small scars or inflammatory infiltrates. As a consequence, sole revascularization does influence ischemia induced arrhythmias while most VTs remain unchanged. In case of necessary cardiac surgery, especially for myocardial revascularization, an intraoperative mapping and laser-ablation of the identified foci is recommended. If larger scars or even aneurysms are present, an endocardial and epicardial ablation is performed and has demonstrated its high efficacy with a success rate of more than 90%. In case of only small scars or infiltrates, we refrain from opening the ventricle and only perform an epicardial mapping and deep ablation, which is even curative in more than half of the cases without further need of an ICD implantation, as demonstrated in a study with >30 patients. As the whole procedure is performed on the beating heart, it does not add to ischemic time and does not increase the risk significantly. Laser-VT-ablation is an effective, less invasive, curative therapy for patients with an indication for open heart surgery, especially coronary revascularization and with documented VTs.

## Biography

Rainer Moosdorf is working in field of Cardiovascular Surgery since more than 35 years. He started his career as Resident at University Hospital in Giessen in 1978. In 1990, he became a full Professor for Cardiovascular Surgery at University in Bonn and Vice Chairman of the respective department. In 1989 and 1990, he was a Researcher & Clinical Fellow at Carolinas Heart Institute in Charlotte/NC. Since 1994, he has been working at University Hospital in Marburg as a full Professor for Cardiovascular Surgery & Director of the Department. Between 2001 & 2011, he was Vice Medical Director and since 2006, Medical Director at University Hospital in Marburg. His main specialties within cardiovascular surgery are "Laser and arrhythmia surgery, endovascular procedures including TAVI's and endovascular reconstructions of the aortic arch, reconstructive surgery of the coronaries and some types of the French correction". As Chairman of the board of Medical Network Hessen, he is an official representative of the State of Hessen in the field of Clinical Medicine & Medical Education.

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