

REGIONAL BLOOD FLOW MEASUREMENT IN EXTRA-INTRACRANIAL ANASTOMOSES FOR CEREBRAL ISCHEMIA

Methodologic aspects

P. SCHMIEDEK, O. GRATZL and H. STEINHOFF

Attempts to treat cerebral ischemia by microvascular surgery were introduced clinically by DONAGHY (1967) with the object of restoring the blood supply within an ischemic region of the brain directly by anastomosing the extracranial superficial temporal artery with a cortical branch of the middle cerebral artery (DONAGHY 1967, YASARGIL et coll. 1970). Although the total number of patients in whom a micro-neurosurgical anastomosis has been performed is close to 400 (at the time of writing) some problems remain to be solved before this surgical procedure safely can be recommended for a wide application in patients with an insufficient cerebral blood supply. Firstly, the appropriate candidates for this operation have to be defined more precisely. However, there is good evidence from the results obtained that patients presenting with symptoms of intermittent cerebrovascular insufficiency will benefit the most from this type of surgery. In these cases, recurrent transient cerebral attacks can be significantly reduced or even completely prevented (GRATZL et coll. 1973). Secondly, there is an urgent need for clear-cut evidence concerning the effect of the

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Microneurosurgical Anastomoses For Cerebral Ischemia

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Microneurosurgical Anastomoses For Cerebral Ischemia:

Microneurosurgical Anastomoses for Cerebral Ischemia George Austin, 1976 **Microvascular Anastomoses for Cerebral Ischemia** J.M. Fein, O.H. Reichman, 2012-12-06 **Microsurgical Approach to Cerebro-Spinal Lesions** H. Kraysenbühl, P. E. Maspe, W. H. Sweet, 1978-12-12 *Extra-Intracranial Vascular Anastomoses Microsurgery at the Edge of the Tentorium* Hermann Dietz, Mario Brock, Margareta Klinger, 2012-12-06 This 13th volume of *Advances in Neurosurgery* presents those papers held at the 35th Annual Meeting of the German Society of Neurosurgery in Hannover June 13-16 1984. Of 150 papers submitted the program committee of the Society chose 69 for presentation. I would like to thank Professors Bock, Brock, Jensen, Wenker and Willenweber for their assistance in the selection. It was the intention of the President of the Congress at this meeting to lay special scientific emphasis on discussion. For this reason the number of papers had to be limited even more than usual in order to give all participants the opportunity for questions and the presentation of their own experience. The main topic of the first day was Extra-Intracranial Anastomoses. Here the operative experience and the long term results of these operations in the German speaking countries were reviewed. This discussion was preceded a day earlier by a satellite symposium on the possibilities of the prophylaxis and treatment of ischemic neurological deficits following subarachnoid hemorrhage by means of calcium antagonists. *Microsurgery at the Edge of the Tentorium* was the second main topic. In cooperation with the Society's microneurosurgery working group only a small number of lectures were planned but the topic was covered thoroughly in a round table discussion. *Cerebrovascular Bibliography*, 1976 *The Extra-Intracranial Bypass Operation for Prevention and Treatment of Stroke* G. Kletter, 2013-11-11 A decade has passed since systematic studies were initiated in the USA in an attempt at establishing the experimental basis for a surgical technique which was to prove an effective tool in combatting one of the most common diseases i.e. cerebrovascular accidents. The development of such intricate vasculosurgical techniques as are required for extra-intracranial arterial bypass operations would not have been possible without the aid of the surgical microscope which had been designed some years earlier. In the past few years increasing emphasis has been placed on establishing clear cut indications for the bypass operation because satisfactory long term results are unlikely to be obtained without them. Needless to say that this requires a close cooperation of the neurosurgeon with a team composed of neurologists, internists, radiologists and pathologists. Fortunately enough cooperation between the services of the University of Vienna Medical School proved to be exemplary. While there has been no lack of efforts by major medical centers both in Europe and the overseas countries to perfect bypass operations for cerebrovascular accidents a comprehensive monograph reviewing all medical and operative problems involved in microvascular surgery for strokes was badly missed by many. **Current Catalog** National Library of Medicine (U.S.), 1979 First multi year cumulation covers six years 1965-70 **Advances in Surgery for Cerebral Stroke** Jiro Suzuki, 2013-12-01 Cerebral stroke is a common and widespread phenomenon affecting a large number of the human population worldwide.

Various surgical methods have been developed for its treatment and the therapeutic results have steadily improved This is a reassuring trend that promises further progress will be made in the future This volume contains important contributions by leading clinicians and researchers in the field to the International Symposium on Surgery for Cerebral Stroke held in Sendai Japan May 24 27 1987 Microsurgery for Stroke P. Schmiedek,O. Gratzl,R.F Spetzler,2012-12-06 **Current**

Bibliography of Epidemiology ,1972 Brain Abscess and Meningitis W. Schiefer,M. Klinger,Mario Brock,2012-12-06 W SCHIEFER The 31st annual meeting of the Deutsche Gesellschaft f r Neurochirurgie was held in Erlangen on May 1 4 1980 The numerous participants obviously enjoyed the opportunity to be co me acquainted with the attractive city of gardens lecture theatres and workshops surrounded by a lovely countryside and a historic environment The pro gram included a visit to the neighboring city of N rnberg to the old Reichsstadt Regensburg and an opening ceremony in the orangerie of the Erlangen palace where the Bamberger Ensemble f r alte Musik presented interesting and little known early music The annual meeting was held in the newly built Kopfklinik of the University of Erlangen N rnberg which houses the departments of neurosurgery neurology and ophthalmology As far as possible many functions of this hospital were centralized because this has economic advantages and saves personell Other functional units such as the operating theatres the intensive care units research laboratories and units specific to the individual disciplines remained decentralized and independent This concept has proved to be a happy solution At the membership meeting of the Deutsche Gesellschaft f r Neurochirurgie Prof Dr K J Z lch of Cologne was made an honorary member of this society of which he is a founding member *Cumulated Index Medicus* ,1976 Microsurgery for Cerebral Ischemia S.J. Peerless,C.W. McCormick,2012-12-06 In June 1973 Professor George Austin invited a small group of neuroscientists from Asia Europe the United States and Canada to the Loma Linda University School of Medicine in Loma Linda California The fundamental technique of fashioning a small vessel collateral to the brain had been pioneered by Donaghy and Yasargil 5 years before and was now gaining momentum with the increased availability of the operating microscope fine instruments and sutures and surgeons trained in microvascular surgery The interchange of ideas at this first conference was magic The handful of participants returned home stimulated with new ideas of technique patient selection and postoperative evaluation and resolved to meet again on a regular basis A Second International Symposium was hosted by Howard Reichman at Loyola University in Chicago Illinois in June of 1974 a Third Symposium at Rottach Egern West Germany in June of 1976 under Professor F Marguth of the Ludwig Maximilians University of Munich **Hemodynamic Aspects of Cerebral Angiomas** Werner Hassler,2012-12-06 Up to date the treatment of arteriovenous racemose angiomas of the brain remains unsatisfactory Intraoperative hemorrhages post embolizational or postoperative deficits depending on the site and size of the A VM as well as inoperability of rare angioma types have promoted the technical improvement of diagnostic and therapeutic approaches Nevertheless some pathophysiological problems of A VM hemodynamics have not been solved Many angiographical studies observations during

embolization and operation dopplersonographical and other perfusion measurements provided some insight Sufficient animal models have yet to be developed in order to elucidate the pathophysiological mechanisms This monograph describes A V fistula models in cats and rats both conventional and newly developed which allow a better comparison with human cerebral angiomas than previous ones The most important result is that the model of the breakthrough of arterial pressure waves into the capillaries following a failure of cerebrovascular regulation cannot be confirmed Rather according to the findings in precapillary vessels presented here the regulation functions normally so that a breakdown of regulation cannot be responsible for global brain edema often seen after removal of angiomas The regulation was demonstrated using different methods most important of which being the CO response of 2 brain vessels to varying CO contents of the inhaled air Angiographical dopplersonographical and 2 perioperative dopplersonographical as well as intraoperative measurements of flow and pressure have been applied

Proceedings of the 6th European Congress of Neurosurgery J. Brihaye, P. R. R. Clarke, F. Loew, J. Overgaard, E. Pasztor, B. Pertuiset, K. Schürmann, L. Symon, 2013-06-29 Organized by the European Association of Neurosurgical Societies Paris July 15 20 1979

Microneurosurgery Hajime Handa, 1975 **Cerebral Revascularization by Microneurosurgical Bypass** Paolo Conforti, Francesco Tomasello, Vincenzo Albanese, 1984

Clinical Microneurosurgery Wolfgang Th Koos, F. W. Böck, Robert Friedrich Spetzler, 1976 **Cerebral Revascularization - E-Book** Saleem I. Abdulrauf, 2010-12-03 Cerebral Revascularization Techniques in Extracranial to Intracranial Bypass Surgery by Saleem I Abdulrauf MD FACS offers unmatched expert guidance Through a series of dynamic step by step instructional videos of the most common and uncommon procedures you will deepen your understanding of these techniques and be able to confidently perform them Edited and written by international leaders in neurosurgery this definitive reference with a foreword written by M Gazi Yasargil MD creator of the procedure is the first and only text entirely dedicated to this surgery and provides you with exclusive authoritative information Access the full text video library and reference links to PubMed at www.expertconsult.com Sharpen your skills in Extracranial to Intracranial EC IC Bypass Surgery with help from the first and only text entirely dedicated to this quickly evolving procedure Get exclusive first hand expert knowledge from a an internationally renowned team of editors and contributors all leaders in cerebrovascular care See key EC IC bypass procedures performed in detailed step by step instructional video clips Access the full text online including the complete video library reference lists and additional online only information at www.expertconsult.com

Cerebrovascular Disorders and Stroke Murray Goldstein, 1979

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