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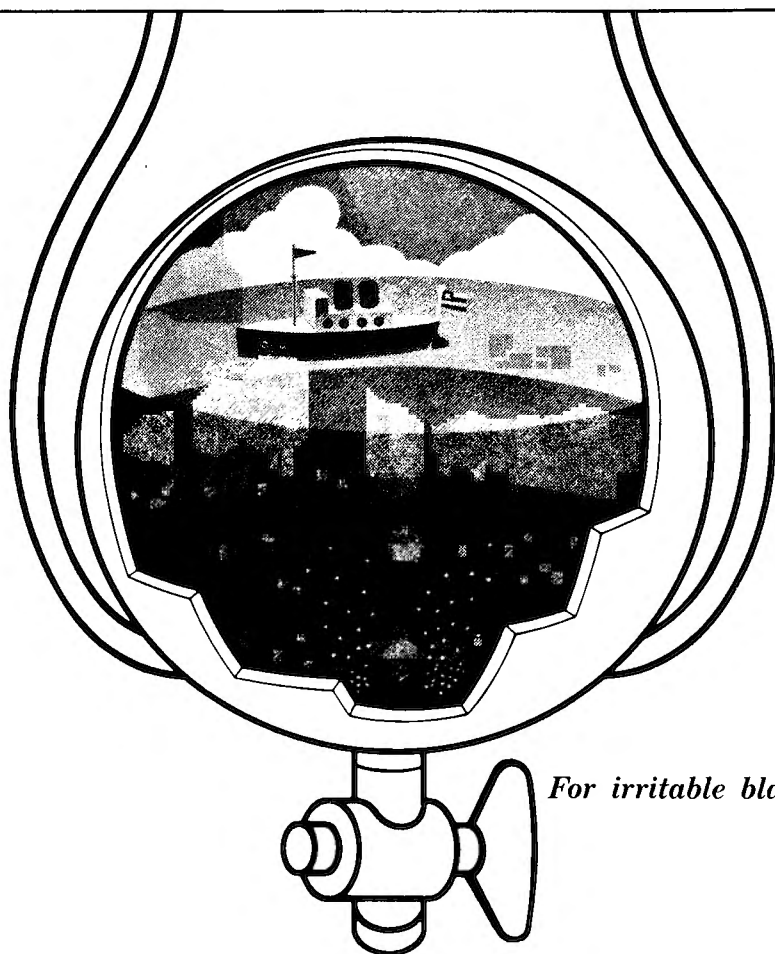
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CONTENS OF VOLUME 51

Topics

Coronary Artery Spasm —Its Significance in the Field at Cardiac Surgery—	TOSHIHIKO BAN (1)
Immunological Aspects of Brain Tumors	YOSHIFUMI ODA (199)
Multiple Organ Failure	YASUO KAMIYAMA (363)
Present Concepts in Treatment of Esophageal Cancer	MASAYUKI IMAMURA (555)
Computerization and Less-invasive Neurosurgery	KOUZO MORITAKE (669)
Functional Tricuspid Insufficiency	YUTAKA KONISHI (829)

Original Articles

Histochemical Elucidation of Hamster Pancreatic Carcinogenesis Induced by N-nitroso-bis (2-hydroxypropyl) amine	KAZUYUKI MIYAZAKI, et al (3)
Analysis of Conjugated Bile Acids in Bile by High-pressure Liquid Chromatography II. Clinical Application in Bile of Patients with Gallstones	KEISUKE MARUYAMA (14)
Hemodynamic Stress and Developmental Mechanism in Experimental Cerebral Aneurysms in Rats	IZUMI NAGATA (44)
Induction of Anti-tumor Cell-mediated Immunity by Local Irradiation Against Transplanted Brain Tumor	KINYA SUDA (59)
The Regional Differences of Catecholaminergic Neuron Systems in Experimental Hydrocephalus of Rabbits	SOICHI MIWA (70)
Mechanical Property of Canine Basilar Artery in Experimental Subarachnoid Hemorrhage	YOSHITO NARUO (79)
Experimental Study of Cerebral Vasospasm —Biochemical Analysis of Vasoconstrictor in the Red Blood Cell Hemolysate and the Mechanism of Action—	SHINICHIRO OKAMOTO (93)
Experimental Studies of Nonsuture Microvascular Anastomosis Using a Soluble PVA Tube and Plastic Adhesive	SEN YAMAGATA (104)
Post-Operative Clinical and Radiographical Study on the Partial Vertebrectomy and Fusion of the Cervical Spine	KOJIRO IKEHATA (118)
Experimental Studies on Resectability of the Liver in Hemorrhagic Shock	YOSHIO YAMAZAKI (144)
Regional Distributions of Catecholamines in Dog Cerebral Arteries-Existence of Dopaminergic Fibers	YOSHIO SUZUKI, et al (201)
Clinical Studies on Cervical Osteochondrosis	FUKUZI SENZOKU (208)
Clinical Application of the Segmental Spinal Evoked Potentials at the Cervical Spinal Cord —An Analysis about the Patients with Cervical Osteochondrosis—	AKIHIKO SHIGEMATSU (276)
Clinical Study on Thoracic Osteochondrotic Myeloapthy	KIYOSHI KAWANO (289)
Application of Microfluorometry to Cardiovascular Surgery I. Evaluation of the Viability of Myocardium by Microfluorometry	YUKIO CHIBA (307)
Autoradiographic Studies on Nucleic Acid Synthesis of Human Gastric Cancer Cells I. Relationship between Nucleic Acid Synthesis of Cancer Cells and Clinicopathological Findings	KAZUNORI INOUE (315)
Autoradiographic Studies on Nucleic Acid Synthesis of Human Gastric Cancer Cells II. Effects of 5-Fluorouracil on Nucleic Acid Synthesis of Cancer Cells	KAZUNORI INOUE (327)
Changes in the Energy Substrate after Hepatectomy —Preferential Utilization of Fatty Acids and its Effect on Hepatic Regeneration after MajorHepatec tomy—	TOSHIO NAKATANI (365)

The Histogenesis of Hamster Pancreatic Cancer Induced by N-nitroso-bis(2-hydroxypropyl)amine.....	KAZUYUKI MIYAZAKI, et al (382)
Motility of the Gastric Tube after Surgery of the Upper Alimentary Tract with Special Reference to High Pressure Zone at the Gastroduodenal Junction.....	EISHI MIZUTA (396)
Somatosensory Evoked Potential in Experimental Intracerebral Hemorrhage.....	MAKOTO SAKAKURA (423)
Application of Microfluorometry to Cardiovascular Surgery II. Evaluation of the Ischemic Mitochondrial Damage and the Safety Limit of the Intermittent Cold Blood Cardioplegia by Means of Myocardial Metabolism	YUKIO CHIBA (439)
Application of Microfluorometry to Cardiovascular Surgery III. Comparison between Cold Blood Cardioplegia and Crystalloid Cardioplegia by Means of Myocardial Metabolism, Lipid Peroxydation and Mitochondrial Coenzyme Q ₁₀	YUKIO CHIBA (450)
An Analysis of Altered Energy Metabolism in Hemorrhagic and Endotoxin Shock —Experimental Studies on the Basis of Hepatic Mitochondrial Activities—.....	YASUYUKI SHIMAHARA (460)
An Experimental Study of Vitamin E on the Etiology of Pancreatitis.....	HITOSHI KATO (481)
Nuclear Magnetic Resonance (NMR): Its Application to the Medical Science, Especially to the Field of Neurological Surgery.....	RENIN ASATO, et al (557)
Usefulness of Serial CT Scans for Evaluation of Histology and Prognosis in Gliomas.....	IKUHIRO AOYAMA (566)
Role of Blood Flow in the Development of Gastric Mucosal Injury Associated with Various Diseases I. Changes of Gastric Mucosal Blood Flow in Hemorrhagic Shock.....	TADAO MANABE (583)
Role of Blood Flow in the Development of Gastric Mucosal Injury Associated with Various Diseases II. Changes of Gastric Mucosal Blood Flow in Hepatobiliary Diseases.....	TADAO MANABE (595)
Study on Choleric Effect of Endogeneous Plasma Seretin Based on Reconstructive Procedure of Alimentary Tract (1) Appraisal of Reconstructive Procedure in Total Pancreatectomy.....	KEIZO OGASAWARA (612)
Study on Choleric Effect of Endogenous Plasma Secretin Based on Reconstructive Procedure of Alimentary Tract (2) Adaptive Change after Gastroenterostomy.....	KEIZO OGASAWARA (629)
Scanning Electron Microscopic Observation of Ossification and Calcification of the Ligamentum Flavum.....	SHIGEKI OKA (671)
Experimental Study on the Local Hyperthermia Therapy of Malignant Brain Tumor Using Radiofrequency.....	TADAHIRO KANAYAMA (695)
Correlation and Anomalies of the Vascular Structure in Glisson's Area Around the Hepatic Hilum, from the Standpoint of Hepatobiliary Surgery.....	HIDEAKI SUZUKI (713)
Studies of Trophic Effects on the Pancreas in Rats.....	NOBUO BABA (732)
Transesophageal M-mode Echocardiography: Its Clinical Application for Evaluation of Left Ventricular Function Soon After Cardiac Surgery.....	TOMOHIKO MURAGUCHI (831)
Biliary Excretion of Copper, Manganese and Zinc in Humans.....	TSUKASA SEKIYA (862)
Possible Application of Nuclear Magnetic Resonance (NMR) Imaging to the Study of Brain Edema in Sliced Rat Brain.....	RENIN ASATO (882)
Radiosensitizing Effect of Misonidazole in Radiotherapy for Interararial Tumors.....	SHIN-ICHI OTSUKA (892)
Experimental Studies on the Effect of Brain Stem Function on the Cerebral Arterial Responsibility by Means of Auditory Brain Stem Response and Ultrasonic Doppler Flowmeter in Dogs.....	YOSHIHIRO TAKEBE (907)

- Role of Blood Flow in the Development of Gastric Mucosal Injury
Associated with Various Disease
 III. Changes of Gastric Mucosal Blood Flow in Pancreatic Disease.....TADAO MANABE (923)
- Studies on Spinal Evoked Potentials in Cervical Spondylotic Myelopathy
—Using Both Segmental and Conductive SEP—.....HIRONOBU YAMASAKI (932)
- Experimental Study on Enlargement of the Spinal Canal of the Cervical Spine
—With Special Reference to Post-operative Scar Tissue Formation—.....AKIHIRO NONAKA (945)

Clinical Studies

- Mitral Regurgitation Due to a Calcified Myxoma.....KAZUAKI MINAMI, et al (159)
- Surgical Repair of Tetralogy of Fallot Associated with Unilateral
Anomaly of the Pulmonary Artery.....KAZUAKI MINAMI, et al (167)
- Effect of Intravenous Administration of Cimetidine, an H₂ Receptor
Antagonist, on Postoperative Gastrointestinal Bleeding in Neurosurgical Cases
.....KOUZO MORITAKE, et al (336)
- Hemolysis After Implantation of Prosthetic Heart Valves.....YUTAKA KONISHI, et al (495)
- Surgical Treatment of Congenital Coronary Arterial Fistula.....KAZUAKI MINAMI, et al (504)
- Conversion of Percutaneous Transhepatic Cholangiodrainage Tube into an
Endoprosthesis by Means of Burying Its External Tip in the Subcutaneous Tissue
.....HIROYUKI NOGUCHI, et al (514)
- Therapeutic Effect of Canrenoate Potassium (Soldactone®) in Patients
after Open-Heart Surgery.....KATSUHIKO MATSUDA, et al (519)
- Surgical Treatment for the Infected Aneurysms of the Extremities.....YOSHIFUMI OKAMOTO, et al (528)
- Solitary Schwannoma of Sciatic Nerve. Diagnosis by CT.....MANABU SATO, et al (534)
- Surgical Treatment of Complete Atrioventricular Canal.....KAZUAKI MINAMI, et al (640)
- The Surgical Treatment of Congenital Aortic Stenosis.....KAZUAKI MINAMI, et al (761)
- Clinical Studies of Cervical Spine in Rheumatoid Arthritis.....TETSUJI TAHARA (774)
- Clinical Studies of Ossification of the Spinal Ligaments.....KAZUYUKI SAKURADA (795)
- A Clinical Study on Ender's Nailings in Pertrochanteric Fractures.....MIKIO SUMIDA (961)
- Radiographic and Clinical Studies of the Entire Spinal Canal Stenosis.....KAZUHIRO SAKAI (976)
- Long-term Follow-up Results of Cervical Spondylotic Myelopathy
—More Than 5 Years Post-operatively—.....KOHZO SUNAGO (995)

Case Reports

- Malignant Duodenocolic Fistulae
—A Report of Three Cases—.....KOHICHI NAKAMOTO, et al (176)
- Aneurysm at the Fenestration of Basilar Artery
—Case Report—.....YOKO NAKASU, et al (344)
- Tricuspid Atresia with Polysurgery
—A Case Report—.....KAZUAKI MINAMI, et al (349)
- A Case of Annular Pancreas in the Adult Associated with
Cholelithiasis and Congenital Anomaly:
 Demonstration of the Rare Annular Duct on Cholangiography.....YOH KASAHARA, et al (537)
- A Case of Spontaneous Nonsurgical Pneumoperitoneum Associated with
Adenocarcinoma in the Esophagogastric Junction.....YOH KASAHARA, et al (805)
- Bilateral Internal Carotid Occlusion with Unusual Collateral Pathways
 Report of a Case.....SATOSHI NAKASU, et al (814)

Large Dose of Diuretic for Treatment of Acute Renal Failure after Open-Heart Surgery. A Case Report	KATSUHIKO MATSUDA, et al (822)
Intracranial Tuberculoma without Evidence of Systemic Tuberculosis	MASATSUNE ISHIKAWA, et al (1025)
Extravasation from an Aneurysm during Angiography Report of a Case with Survival	KINYA SUDA, et al (1032)
Dural Arteriovenous Malformation in the Anterior Cranial Fossa: Report of a Case	MINORU KIDOOKA, et al (1040)
Occlusion of Heubner's Artery—CT and Clinical Findings.....	MANABU SATO, et al (1047)
A Case of Meckel's Diverticulum Diagnosed by ^{99m} TcO ₄ Abdominal Scanning.....	AKIO HIGUCHI, et al (1051)

第 51 卷 総 目 次

話 題

心臓外科領域における Coronary Spasm とその意義	伴 敏 彦 (1)
脳腫瘍と免疫	織 田 祥 史 (199)
多臓器不全	上 山 泰 男 (363)
食道癌治療上の問題点	今 村 正 之 (555)
コンピュータと“NO-GEKA”	森 竹 浩 三 (669)
機能的三尖弁閉鎖不全症	小 西 裕 (829)

原 著

N-nitroso-bis (2-hydroxypropyl) amine 誘発ハムスター膀胱癌の組織化学解明	宮 崎 一 之, 他 (3)
高速液体クロマトグラフィによる, 胆汁中抱合型胆汁酸の分析 第Ⅱ編: 胆石症患者における胆汁分析への臨床応用	丸 山 啓 介 (14)
実験的脳動脈瘤誘発における Hemodynamic Stress の意義および動脈瘤の発生機序	永 田 泉 (44)
脳腫瘍への ⁶⁰ Co 局所照射による抗腫瘍細胞性免疫の誘導	須 田 金 弥 (59)
実験的水頭症における中枢性ノルアドレナリンおよび ドーパミン神経系の機能変化について	三 輪 聡 一 (70)
実験的クモ膜下出血におけるイヌ脳底動脈の力学的性質	鳴 尾 好 人 (79)
脳血管攣縮に関する実験的研究 ——赤血球溶血中の血管収縮物質と, 脳血管収縮の作用機序——	岡 本 新 一 郎 (93)
溶解性支持器と接着剤を用いた無縫合微小血管吻合の実験的研究	山 形 専 (104)
頸椎椎体開術の臨床的・X線学的研究	池 畑 孝 次 郎 (118)
出血ショック下肝切除限界の研究	山 碕 芳 生 (144)
犬脳動脈におけるカテコールアミンの局所分布 ——ドーパミン線維の存在について——	鈴 木 善 男, 他 (201)
頸部脊椎骨軟骨症の臨床的研究	千 束 福 司 (208)
頸部分節性脊髄誘発電位の臨床的応用 ——頸部脊椎骨軟骨症における検討——	重 松 昭 彦 (276)
胸部脊椎骨軟骨症 (脊髄症) に関する臨床的検討	河 野 清 (289)
心臓外科領域における microfluorometry の応用 1. Microfluorometry による心筋 Viability の判定	千 葉 幸 夫 (307)
Autoradiography によるヒト胃癌細胞の核酸合成能に関する研究 第1編 胃癌細胞の核酸合成能と臨床病理所見との関連	井 上 和 則 (315)
Autoradiography によるヒト胃癌細胞の核酸合成能に関する研究 第2編 5-Fluorouracil の術前投与が胃癌細胞の核酸合成能に及ぼす効果	井 上 和 則 (327)
肝切除後のエネルギー基質の変化 ——大量肝切除後における脂肪酸の優先的利用と, その肝再生に及ぼす影響——	中 谷 寿 男 (365)
N-nitroso-bis(2-hydroxypropyl)amine 誘発ハムスター膀胱癌の組織発生	宮 崎 一 之, 他 (382)
胃十二指腸接合部高圧帯からみた上部消化管手術と術後胃運動機能	水 田 英 司 (396)
実験的脳出血—血腫除去群と非除去群における体性感覚 誘発反応からみた機能回復性の相違について	坂 倉 允 (423)
心臓外科領域における Microfluorometry の応用 2. 心筋エネルギー代謝からみた虚血によるミトコンドリアの障害と, Cold Blood Cardioplegia 法の安全限界について	千 葉 幸 夫 (439)

心臓外科領域における Microfluorometry の応用

3. 心筋エネルギー代謝, 脂質過酸化, コエンザイム Q₁₀ からみた
心筋保護法 (GIK, Cold Blood Cardioplegia) の比較検討……………千葉 幸 夫 (450)
- 肝ミトコンドリア機能よりみた, 出血性ショック及び
エンドトキシンショックにおける実験的研究……………嵐 原 康 行 (460)
- ビタミンEの膵炎発生機序に関する研究……………加 藤 仁 司 (481)
- NMRの医学への適用——脳神経外科の立場から……………安里 令人, 他 (557)
- グリオーマの診断および予後判定におけるCTの有用性に関する研究……………青 山 育 弘 (566)
- 血行動態からみた諸病態下における胃粘膜損傷機序
1. 出血性ショックにおける胃粘膜血流変動……………真 辺 忠 夫 (583)
- 血行動態からみた諸病態下における胃粘膜損傷機序
2. 肝胆道病変における胃粘膜血流変動……………真 辺 忠 夫 (595)
- 切除再建術式からみた内因性セクレチンの胆汁分泌作用に関する研究
第1編 膵全摘後再建術式の検討……………小笠原 敬 三 (612)
- 切除再建術式からみた内因性セクレチダの胆汁分泌作用に関する研究
第2編 消化管吻合後の適応現象について……………小笠原 敬 三 (629)
- 黄色靱帯骨化および石灰化の走査電顕的研究……………丘 茂 樹 (671)
- 悪性脳腫瘍の高周波温熱療法に関する実験的研究……………金 山 忠 弘 (695)
- 肝門部近傍におけるグリソン系脈管群の相関と異常
——肝胆道外科の立場から——……………鈴 木 英 明 (713)
- 膵栄養効果に関する実験的研究……………馬 場 信 雄 (732)
- 経食道的Mモード心エコー法:
心臓手術々後早期における左心機能評価への応用……………村 口 和 彦 (831)
- 銅, マンガン, 亜鉛の胆汁排泄に関する臨床的研究……………関 谷 司 (862)
- 実験的脳浮腫の核磁気共鳴画像による研究
——経時変化及び血液脳関門障害の検討——……………安里 令人 (882)
- 頭蓋内腫瘍の放射線治療における Misonidazole の放射線増感効果に関する
実験的ならびに臨床的研究……………大 塚 信 一 (892)
- 脳血流調節における脳幹機能の役割に関する実験的研究
——聴性脳幹誘発反応と超音波ドプラ矢状静脈血流計測による検討——……………武 部 吉 博 (907)
- 血行動態からみた諸病態下における胃粘膜損傷機序
3. 膵病変における胃粘膜血流変動……………真 辺 忠 夫 (923)
- 頸椎脊椎骨軟骨症の脊髄症における脊髄誘発電位に関する研究
——分節性及び伝導性の併用——……………山 崎 博 信 (932)
- 頸椎椎管拡大術に関する実験的研究
——主として瘢痕の推移について——……………野 中 昭 宏 (945)

臨 床

- 石灰化粘液腫による僧帽弁閉鎖不全症……………南 一 明, 他 (159)
- 一側肺動脈異常を伴うフェロー四徴症の外科治療……………南 一 明, 他 (167)
- 開頭術後の上部消化管出血例の検討ならびにシメチジン静脈投与の有効性について……………森 竹 浩 三 (336)
- 人工弁置換後の溶血……………小 西 裕, 他 (495)
- 先天性冠動脈瘤の手術……………南 一 明, 他 (504)
- PTCD-tubeの体外先端皮下埋没による Endoprosthesis 化の一考……………野 口 博 志, 他 (514)
- Canrenoate Potassium (Soldactone®)の開心術後に及ぼす影響について……………松 田 捷 彦, 他 (519)
- 四肢感染動脈瘤の外科治療……………岡 本 好 史, 他 (528)
- 単発性坐骨神経鞘腫—CTによる断診……………佐 藤 学, 他 (534)

完全型心内膜床欠損症の手術	南 一明, 他 (640)
先天性大動脈狭窄症の外科治療	南 一明, 他 (761)
慢性関節リウマチ患者の頸椎病変に関する臨床的研究	多 原 哲 治 (774)
脊柱諸靭帯骨化に関する臨床的研究 ——Ankylosing Hyperostosis を中心に——	桜 田 和 之 (795)
大腿骨転子部骨折に対するエンダー髓内釘法の臨床成績	住 田 幹 郎 (961)
全脊柱管狭窄に関するX線学的・臨床的研究	酒 井 和 裕 (976)
頸部脊椎骨軟骨症の遠隔成績 ——髄症の手術後5年以上経過例について——	砂 金 光 藏 (995)

症 例

癌性十二指腸結腸瘻の3症例	中元光一, 他 (176)
脳底動脈窓形成部に動脈瘤を合併した1症例	中洲庸子, 他 (344)
6回手術をうけた三尖弁閉鎖症の1例	南 一明, 他 (349)
成人型輪状痔:胆石症, 先天異常を合併し, 胆道造影でその導管走行をみた1例	笠原洋, 他 (537)
特発性の非手術適応の気腹像, 食道胃境界部癌に合併の1例	笠原洋, 他 (805)
特異な側副血行路を示した両側内頸動脈閉塞症	中洲敏, 他 (814)
開心術後の急性腎不全に対する利尿剤大量投与(8,390mg/日)による治験例	松田捷彦, 他 (822)
全身性結核を伴わない頭蓋内結核腫の1例	石川正恒, 他 (1025)
造影剤漏出を認めた脳血管撮影中の脳動脈瘤再破裂の1救命例	須田金弥, 他 (1032)
前頭蓋窩の硬膜動静脈奇形	木戸岡実, 他 (1040)
Heubner 動脈領域の脳梗塞:CT および臨床像について	佐藤学, 他 (1047)
^{99m} TcO ₄ Abdominal Scanning により診断されたメッケル憩室症の1例	樋口章夫, 他 (1051)
第14回近畿脳腫瘍研究会	(186)
第15回近畿脳腫瘍研究会	(649)
京都大学脳神経外科教室同門会集談会	(545)
第12回中国・四国神経外傷研究会	(358)

INDEX OF VOLUME 51

Author Index

- A**
- Aota, Masaki495
 Aoyama, Ikuhiro566
 Asato, Renin557, 882
- B**
- Baba, Nobuo732
 Ban, Toshihiko1
- C**
- Chiba, Yukuo
307, 349, 439, 450, 495, 504, 519, 640, 761, 822
- H**
- Hamashima, Yoshihiro.....3, 382
 Handa, Hajime336, 557, 1025
 Handa, Jyoji.....344, 534, 814, 1032, 1040
 Hattori, Yasuaki1051
 Hayashidera, Tadashi504, 640
 Henmi, Kimio.....176
 Higuchi, Akio1051
 Hikasa, Yorinori
159, 167, 349, 495, 504, 519, 640, 761, 822, 862
 Hoshimaru, Minoru336
- I**
- Ikehata, Kojiro118
 Imamura, Masayuki555
 Inoue, Kazunori.....315, 327
 Ishihara, Hiroshi349, 519, 640, 761
 Ishikawa, Masatsune1025
- K**
- Kakahara, Michiaki514
 Kamiyama, Yasuo363
 Kanayama, Tadahiro.....695
 Kasahara, Yoh537, 805
 Kato, Hitoshi176, 481
 Katsumi, Masaharu514
 Kawai, Shuji805
- Kawano, Kiyoshi289
 Kawashima, Hiroaki514
 Kidooka, Minoru344, 1040, 1047
 Kikuchi, Shunji176
 Kin, Hideo514
 Kinuta, Yuji336
 Kitano, Mitsuru495
 Kodama, Keisuke528
 Koie, Hisaaki167
 Konishi, Yutaka
349, 495, 504, 519, 640, 761, 822, 829
 Kono, Nobuji514
 Koyama, Tsunemaro.....534
 Kuyama, Takeshi537, 805
- M**
- Manabe, Tadao583, 595, 923
 Maruyama, Keisuke14
 Matsuda, Isao.....814
 Matsuda, Katsuhiko
349, 495, 504, 519, 640, 761, 822
 Matsuda, Masayuki.....1032
 Matsumoto, Hiroki805
 Minami, Kazuaki
159, 167, 349, 495, 504, 519, 640, 761, 822
 Miwa, Soichi.....70
 Miyanomae, Takeshi1051
 Miyazaki, Kazuyuki.....3, 382
 Mizuta, Eishi396
 Mori, Koreaki1025
 Moritake, Kouzo336, 669
 Muraguchi, Tomohiko
349, 495, 504, 519, 640, 761, 822, 831
 Murasawa, Kenichi176
 Murata, Shinji495, 519, 822
- N**
- Nagata, Izumi44
 Nakamoto, Koichi176
 Nakasu, Satoshi344, 814, 1040
 Nakasu, Yoko344, 814 1040

Nakatani, Toshio	365
Nakayama Kengo	528
Naruo, Yoshito	79
Nijima, Kyo	336
Nio, Yoshinori	176
Nishiwaki, Noboru	495, 504, 519, 640, 761, 822
Nitta, Naoki	176
Noguchi, Hiroyuki	514
Nonaka, Akihiro	945

O

Oda, Yoshifumi	199
Ogasahara, Keizo	612, 629
Ohsawa, Yuzo	514
Oka, Shigeki	671
Okada, Tomohisa	201
Okamoto, Kazuo	814
Okamoto, Shinichiro	93
Okamoto, Yoshifumi	528
Okamura, Sadao	514
Osaragi, Masataka	528
Otsuka, Shin-ichi	892

S

Sakai, Kazuhiro	976
Sakakura, Makoto	423
Sakurada, Kazuyuki	795
Sasaki, Masakazu	514
Sato, Manabu	534, 814, 1032, 1047
Sekiya, Tsukasa	862
Senzoku, Fukuzi	208
Shigematsu, Akihiko	276
Shimahara, Yasuyuki	460
Shiraha, Sei	805
Shiraishi, Yoshisada	349, 495, 504, 519, 640, 761, 822
Sonobe, Narumi	537, 805
Suda, Kinya	59, 1032
Sudo, Takaaki	805

Sugimoto, Yoshihiro	514
Sumida, Mikio	961
Sunago, Kohzoh	995
Suzuki, Hideaki	713
Suzuki, Yoshio	201

T

Tabuse, Yoji	514
Tahara, Tetsuji	774
Takasan, Hidenari	3, 382
Takebe, Yoshihiro	907
Takei, Nobuo	514
Tamura, Tokio	159, 167, 761
Tanabe, Yoshihiro	1051
Tanaka, Akira	176
Tanaka, Shigeru	537, 805
Tanimura, Hiroshi	862
Tatsuta, Norikazu	159, 349, 495, 504, 519, 640, 761, 822
Tobe, Takayoshi	382

U

Ueda, Tadashi	349, 504, 640, 761
Umemura, Hiroya	537, 805

W

Watanabe, Hiroshi	528
-------------------------	-----

Y

Yamada, Kinya	528
Yamada, Yukikazu	537, 805
Yamagata, Sen	104
Yamasaki, Hironobu	932
Yamazaki, Yoshio	144
Yamazato, Ario	349, 495, 504, 519, 640, 761, 822
Yokota, Michio	504
Yoshitomi, Jyoji	1951

Subject Index

A

Aberrant hepatic artery.....713
 AC-Bypass1
 Accessory hepatic duct713
 Acid phosphatase44
 Acute pancreatitis923
 Acute renal failure.....822
 Adaptive change.....629
 Adult type537
 Aging.....44
 AH (Ankylosing hyperostosis of the spine)795
 Aldosterone-antagonist519
 Anastomosis104
 Aneurysm1032
 Angiography.....1032
 Annular pancreas537
 Anterior cranial fossa1040
 Anterior decompression and fusion289
 Area of abnormal up-take1051
 Associated anomaly537
 Associated diseases.....537
 Atlant-axial subluxation774
 Auditory brain stem response907
 Autoradiography3, 315, 327

B

Basilar artery344
 Bile862
 Bile Duct Endoprosthesis514
 Biliary secretion.....612, 629
 Blalock-Taussig operation349
 Blood-brain barrier882
 Blood transfusion583
 Brain edema557
 Brain stem907
 Brain tumor199, 695

C

Calcification671
 Calcified myxoma159
 Calcium pyrophosphate dihydrate (CPPD)671

Cancer of the esophagus555
 Canrenoate Potassium519
 Carbon tetrachloride-induced cirrhosis of the liver
595
 Carcinoma in the esophagogastric junction805
 Carcinoma of colon176
 Cardiac tamponade831
 Catecholamine70
 Cavernous portion814
 Cerebral aneurysm79, 344
 Cerebral arteries.....201, 344
 Cerebral infarction1047
 Cerebral vasospasm79, 93
 Cervical osteochondrosis (Spondylosis)276
 Cervical osteochondrotic (Spondylotic) myelopathy
276
 Cervical osteochondrotic (Spondylotic) radiculopathy
276
 Cervical spine118, 774, 945
 Cervical spondylosis932, 995
 Cervical spondylotic myelopathy.....976, 995
 Chenodeoxycholic acid (CDCA)14
 Chronic pancreatitis923
 Cimetidine336
 Classification of myelopathy208, 932, 995
 Cleaning of upper mediastinal lymphnodes555
 Clinical study118
 Clinicopathological findings.....315
 Coenzyme Q₁₀.....450
 Collateral pathways814
 Complete atrioventricular canal640
 Complication.....1032
 Computed tomography669
 Congenital aortic stenosis.....761
 Congenital coronary arterial fistula.....504
 Conjugated bile acid14
 Coronary artery spasm1
 Cross-patch method640
 Cryo-injury edema.....882
 CT534, 1025, 1047
 CT scan795
 Cyanoacrylate104

D

Delayed postirradiation brain damage	566
Dementia	1047
Diagnostic problem	1025
Digital angiography	669
3,4-Dihydroxyphenylacetic acid.....	70
Disc degeneration	289
Diuretic	822
Division of the upper part of the sternum.....	555
Dopamine	201
Duct of the annulus	537
Duodenocolic fistula	176
Dural AVM	1040

E

Echocardiography	159
Ectopic gastric mucosa	1051
Ender's nailing	961
Endogeneous plasma secretin	612, 629
Endotoxin shock.....	460
Energy charge.....	439
Energy metabolism	460
Energy substrate.....	365
Enlargement of the cervical spinal canal	995
Enlargement of the spinal canal	945
Entire spinal canal stenosis	976
Enzyme histochemistry	3
Evoked potentials	669
Experimental animal model.....	382
Experimental cerebral aneurysm	44
Experimental hydrocephalus	70
Experimental pancreatic cancer	3
Extra-anatomic bypass	528
Extravasation	1032

F

Fatty acid oxidation	365
Femoral neck	961
Femur	961
Fenestration.....	344
Flow	907
Fluorometry	307, 439
5-Fluorouracil	327

Fontan-like operation.....	349
Fracture	961
Free radical.....	450
Functional recovery	423
Functional tricuspid insufficiency	829

G

Gallstone	14, 862
Gastric cancer.....	315, 327
Gastric mucosal blood flow	583, 595, 923
Gastoric mucosal injury	923
Gastric tube for esophageal reconstruction	396
Gastroduodenal manometry.....	396
Gastrointestinal bleeding	336
Gastrointestinal tract haemorrhage	1051
Gastrojejunostomy	629
Ggastroileostomy	629
Glenn operation	349
Glioma	59, 199

H

Hahn's groove.....	795
Hancock's conduit.....	167
Hattori's method	976
Hemiparesis	1047
Hemoglobin	93
Hemolysis	495
Hemorrhagic shock	144, 460, 583
Hepatectomy	144
Hepatic adenine nucleotide	460
Hepatic functional reserve	144
Hepatic hilar vasculatures	713
Hepatic regeneration.....	365
Hepatic resection	713
Heubner's artery	1047
High performance liquid chromatography	201
High-pressure liquid chromatography	14
Histogenesis	382
¹ H-NMR imaging.....	882
Homovanillic acid	70
³ H-thymidine labeling index	315, 327
³ H-uridine labeling index.....	315, 327
Hypertension.....	44
Hypoxic Cell	892

I

Intracerebral hemorrhage.....	423
Iatrogenic	528
Immunological enhancement	199
Infection	528
Intermittent cold blood cardioplegia	450
Intermittent crystalloid cardioplegia	450
Internal carotid occlusion.....	814
Internal fixation	961
Intracranial lesions.....	336
Intracranial tumor	892
Intravenous administration	336
Introgenetic.....	528

K

Ketone body ratio	363
Killer T cell	59
Konno's operation	761

L

Laminectomy	945
Large dose	822
Ligamentum flavum	671
Liver failure	363
Liver mitochondria	460
Lipid peroxydation	450, 481
Liver support	363
Local hyperthermia	695
Low cardiac output syndrome	831
Low-grade astrocytoma.....	566
Lumbar canal stenosis	976
LV diastolic characteristics	831
LV systolic function	831

M

Malignant glioma	566
Malignant transformation of low-grade astrocytoma	566
Meckel's diverticulum.....	1051
Metabolism	557
3-Methoxy-4-hydroxyphenylethyleneglycol sulfate	70
Microsurgery	104

Misonidazole	892
Mitochondrial redox state.....	307
Mitral regurgitation	159
MOF	363
Multiple organ failures	144
Myelopathy	208, 289, 932
Myocardial factor	1
Myocardial metabolism.....	307
Myocardial PO ₂	439
Myocardial protection	307, 439

N

Natural history and surgical results	504
Necrosis of the liver	595
New born formation	945
NMR imaging	557
N-nitroso-bis (2-hydroxypropyl) amine	3, 382
Nonsurgical pneumoperitoneum	805
Noradrenaline.....	201
Nuclear magnetic resonance.....	669

O

Obstructive jaundice	595, 732
(+)-Octanoylcarnitine	365
Oculomotor nerve.....	1040
Openheart surgery.....	519, 822
OPLL (Ossification of posterior longitudinal liga- ment)	795
Ossification	671
OSSL (Ossification of supraspinous ligaments) ..	795
Osteochondrosis (Spondylosis).....	289

P

Pancreas	732
Pancreatectomy	732
Pancreatic cancer	382
Pancreatic duct ligation	923
Pancreaticoduodenectomy.....	612
Pancreatitis	481
Paradoxical enhancement.....	882
Paramagnetic ions	882
Partial hepatectomy	365
Partial vertebrectomy.....	118
Pellet	892

Percutaneous transhepatic endoprosthesis.....	514
Percutaneous internal biliary drainage	514
Perforation of the posterior leaflet	159
Perioperative infraction.....	1
Peripheral aneurysm	528
Peripheral nerve tumor.....	534
Plain film of the chest and abdomen	805
³¹ P-NMR.....	557
Polysurgery	349
Polyvinyl alcohol.....	104
Portal hypertension	595
Postoperative	336
Postoperative gastric motility	396
Postoperative pulmonary regurgitation	167
Postoperative pulmonary hypertension	167
Post-operative scar tissue	945
Post-operative study	118
Preoperative examination	555
Prognostic value of CT scans	566
Prostaglandin	93
Prosthetic Valve.....	495
Pyloroplasty.....	396

Q

Quantification of tricuspid regurgitation	829
-------------------------------------------------	-----

R

Radiculopathy.....	208
Radioactive microsphere technique.....	583
Radiofrequency.....	695
Radiographical study.....	118
Radiosensitizer	892
Radiotherapy	59
Rastelli's classification	640
Rastelli's operation.....	640
Reconstructive procedure of the alimentary tract.....	612
Red blood cell hemolysate	93
Regional distribution.....	201
Regulation of cerebral blood.....	907
Rete mirabile	814
Rheumatoid arthritis	774
Round ligament	713
Rupture	528

S

Scanning electron microscopy	44, 671
Schwannoma	534
Sciatic nerve	534
Secondary aldosteronism	519
Selective high temperature heating.....	695
SEP	423
Serum gastrin	583
Serum haptoglobin.....	495
Serum hemoglobin.....	495
Soluble tube.....	104
Spinal cord.....	208, 276, 932, 995
Spinal evoked potentials	276, 932
Subarachnoid hemorrhage	79, 93, 814
Subaxial subluxation.....	774
Subvalvular aortic stenosis	761
Suppressor cell	199
Supravalvular aortic stenosis	761
Surgical indications	504
Surgical procedures	349, 504
Survival rate	144
Syrian golden hamster	3, 382

T

T cell growth factor.....	59
⁹⁹ TcO ₄ abdominal scanning	1051
Tetralogy of Fallot.....	167
Thoracic myelopathy due to ossification of the yellow ligaments	976
Thoracic spine.....	289
Tissue water	557
Total pancreatectomy.....	612
Total parenteral nutrition.....	862
Trace elements	862
Transesophageal M-mode echocardiography.....	831
Treatment	1025
Tricuspid annuloplasty.....	829
Tricuspid valve replacement.....	822
Trophic effect	732
Trypsin inhibitor	732
Tuberculoma.....	1025
Tumor immunity	59
Two-patch method.....	640

U

Ultrasonic diagnosis	669
Ultrasonic doppler flowmeter	907
Unilateral anomaly of the pulmonary artery	167
Urine Na ⁺ /K ⁺ ratio	519
Ursodeoxycholic acid (UDCA)	14

V

Vagotomy	396
----------------	-----

Valvular aortic stenosis.....	761
Vascular connective tissue	79
Vascular malformation	1040
Vascular smooth muscle.....	79
Vertical subluxation	774
Viability of myocardium	307
Vitamin E	481

第 51 卷 索 引

人 名 索 引

A

青田 正樹…………… 495
 青山 育弘…………… 566
 安里 令人…………… 557, 882

B

馬場 信雄…………… 732
 伴 敏彦…………… 1

C

千葉 幸夫
 …… 307, 349, 439, 450, 495, 504, 519, 640, 761, 822

H

浜島 義博…………… 3, 382
 半田 肇…………… 336, 557, 1025
 半田 譲二…………… 344, 534, 814, 1032, 1040
 服部 泰章…………… 1051
 林寺 忠…………… 504, 640
 辺見公雄仁…………… 176
 樋口 章夫…………… 1051
 日笠 頼則
 …… 159, 167, 349, 495, 504, 519, 640, 761, 822, 862
 寶子丸 稔…………… 336

I

池畑孝次郎…………… 118
 今村 正之…………… 555
 井上 和則…………… 315, 327
 石原 浩…………… 349, 519, 640, 761
 石川 正恒…………… 1025

K

柿原美千秋…………… 514
 上山泰男…………… 363
 金山忠弘…………… 695
 笠原 洋…………… 537, 805
 加藤 仁司…………… 176, 481
 勝見 正治…………… 514

川合 秀治…………… 805
 河野 清…………… 289
 川嶋 寛昭…………… 514
 木戸岡 実…………… 344, 1040, 1047
 菊池 俊二…………… 176
 金 秀男…………… 514
 絹田 祐司…………… 336
 北野 満…………… 495
 児玉 啓介…………… 528
 鯉江 久昭…………… 167
 小西 裕…………… 349, 495, 504, 519, 640, 761, 822, 829
 河野 暢之…………… 514
 小山 素磨…………… 534
 久山 健…………… 537, 805

M

真辺 忠夫…………… 583, 595, 923
 丸山 啓介…………… 14
 松田 功…………… 814
 松田 捷彦…………… 349, 495, 504, 519, 640, 761, 822
 松田 昌之…………… 1032
 松本 博城…………… 805
 南 一明… 159, 167, 349, 495, 504, 519, 640, 761, 822
 三輪 聡一…………… 70
 宮野前 健…………… 1051
 宮崎 一之…………… 3, 382
 水田 英司…………… 396
 森 惟明…………… 1025
 森竹 浩三…………… 336, 669
 村口 和彦…………… 349, 495, 504, 519, 640, 761, 822, 831
 村沢 賢一…………… 176
 村田 真司…………… 495, 519, 822

N

永田 泉…………… 44
 中元 光一…………… 176
 中洲 敏…………… 344, 814, 1040
 中洲 庸子…………… 344, 814, 1040
 中谷 寿男…………… 365

中山 健吾	528
鳴尾 好人	79
新島 京	336
仁尾 義則	176
西脇 登	495, 504, 519, 640, 761, 822
新田 直樹	176
野口 博志	514
野中 昭宏	945

O

織田 祥史	199
小笠原敬三	612, 629
大沢 祐三	514
丘 茂樹	671
岡田 知久	201
岡本 和夫	814
岡本新一郎	93
岡本 好史	528
岡村 貞夫	514
大仏 正隆	528
大塚 信一	892

S

酒井 和裕	976
坂倉 充	423
桜田 和之	795
佐々木政一	514
佐藤 学	534, 814, 1032, 1047
関谷 司	862
千束 福司	208
重松 昭彦	276
嵐原 康行	460
白羽 誠	805
白石 義定	349, 495, 504, 519, 640, 761, 822
園部 鳴海	537, 805
須田 金弥	59, 1032
須藤 峻章	805

杉本 憲洋	514
住田 幹郎	961
砂金 光蔵	995
鈴木 英明	713
鈴木 善男	201

T

田伏 洋治	514
多原 哲治	774
高三 秀成	3, 382
武部 吉博	907
竹井 信夫	514
田村 時緒	159, 167, 761
田辺 賀啓	1051
田中 明	176
田中 茂	537, 805
谷村 弘	862
龍田 憲和	159, 349, 495, 504, 519, 640, 761, 822
戸部 隆吉	382

U

上田 忠	349, 504, 640, 761
梅村 博也	537, 805

W

渡辺 裕	528
------	-----

Y

山田 公弥	528
山田 幸和	537, 805
山形 専	104
山崎 博信	932
山崎 芳生	144
山里 有男	349, 495, 504, 519, 640, 761, 822
横田 通夫	504
吉富 錠二	1051

物 件 索 引

- A**
- AC バイパス手術…………… 1
悪性グリオーマ…………… 566
- B**
- 微量元素…………… 862
微小外科…………… 104
Blalock-Taussing 手術 …… 349
病型分類…………… 932
- C**
- 痴呆……………1047
治療……………1025
超音波ドプラ血流計…………… 907
超音波診断…………… 669
聴性脳幹誘発反応…………… 907
CT ……-534, 1025, 1040, 1047
CT の予後判定における重要性遅発性放射線障害
…………… 566
CT 装置…………… 795
- D**
- 大動脈弁上狭窄症…………… 761
大動脈弁下狭窄症…………… 761
大動脈弁狭窄症…………… 761
大腿頸部骨折…………… 961
大腿骨…………… 961
デジタル・アンギオグラフィー…………… 669
動眼神経……………1040
ドーパミン…………… 201
- E**
- 栄養効果…………… 732
エンダー(Ender) 法 …… 961
エンドトキシンショック…………… 460
エネルギーチャージ…………… 439
エネルギー基質…………… 365
エネルギー代謝…………… 460
円靱帯…………… 713
- F**
- ファロー四徴症…………… 167
Fontan 様手術…………… 349
5-フルオロウラシル…………… 327
副肝管…………… 713
フリーラジカル…………… 450
- G**
- 合併奇形…………… 537
合併疾患…………… 537
Glenn 手術 …… 349
グリオーマ……………-59
- H**
- Hancock's conduit …… 167
破裂…………… 528
服部法…………… 976
閉塞性黄疸…………… 595, 732
ヘモグロビン……………-93
Heubner 動脈 ……-1047
頻回手術…………… 349
非手術適応気腹…………… 805
抱合型胆汁酸……………-14
ホモバニリン酸……………-70
放射線治療……………-59
放射線増感剤…………… 892
- I**
- 胃癌…………… 315, 327
医原性…………… 528
異常集積像……………-1051
胃十二指腸内圧測定…………… 396
胃回腸吻合術…………… 629
胃空腸吻合術…………… 629
胃粘膜血流…………… 583, 595, 923
胃粘膜損傷…………… 923
異所性胃粘膜……………-1051
一側肺動脈異常…………… 167
- J**
- 3, 4-ジヒドロキシフェニール酢酸……………-70

実験動物モデル	382
実験肺癌	3
実験的脳動脈瘤	44
実験の水頭症	70
人工弁	495
十字形パッチ法	640
十二指腸結腸瘻	176
術中心筋梗塞	1
術後	336
術後肺動脈閉鎖不全症	167
術後肺高血圧症	167
術後胃運動機能	396
術後研究	118
術後瘢痕組織	945
術前診断	555
重要臓器障害	144
常磁性物質	882
上縦隔リンパ節郭清	555
静脈内投与	336

K

海面静脈洞部	814
開心術	519
開心術後	822
核磁気共鳴	669
核磁気共鳴画像	882
肝アデニンスクレオチド	460
鑑別診断	1025
肝動脈走行異常	713
肝壊死	595
肝不全	363
環軸関節亜脱臼	774
肝補助療法	363
肝機能予備力	144
肝ミトコンドリア	460
肝門部脈管構成	713
肝再生	365
感染	528
肝切除	144, 365, 713
冠スパスム	1
間歇的 K ⁺ 加冷却血液冠灌流法	439, 450
間歇的晶質液冠灌流法	450
カンレノ酸カリウム	519
加令	44
過酸化脂質	481
片麻痺	1047
完全型心内膜床欠損症	640
完全静脈栄養	862
カテコールアミン	70
頸部脊椎骨軟骨症	932, 995
頸部脊椎骨軟骨症(頸椎症)	208
頸部脊椎骨軟骨症性脊髄症	995
経皮経肝のエンドプロステティシス	514
経皮の内胆汁瘻	514
螢光測定法	307, 439
経食道的Mモード心エコー法	831
頸椎	118, 774, 945
頸椎骨軟骨症(頸椎症)	276
頸椎骨軟骨症性(頸椎症性)脊髄症	276
頸椎骨軟骨症性(頸椎症性)神経根症	276
頸椎症性脊髄症	976
頸椎椎管拡大術	995
結腸癌	176
血中ガストリン	583
結核腫	1025
血管吻合	104
血管平滑筋	79
血管結合組織	79
血管障害	1040
ケノデオキシコール酸(CDCA)	14
血液脳関門	882
血清ヘモグロビン	495
血清ハプトグロビン	495
ケトン体比	363
血流調節機構	907
奇異の増強	882
奇網	814
機能回復	423
機能的三尖弁閉鎖不全症	829
キラーT細胞	59
高血圧	44
骨新生	945
抗アルドステロン作用	519
コエンザイム Q ₁₀	450
後縦靭帯骨化	795
今野の手術	761
コンピュータ断層撮影	669
高周波	695

高速液体クロマトグラフィ	14
高速液体クロマトグラム	201
硬膜動静胞奇形	1040
骨化	671
クモ膜下出血	79, 93, 814
強直性脊椎骨増殖症	795
胸腹部単純撮影写真	805
胸骨上部縦割法	555
棘上靭帯骨化	795
胸椎	289
胸椎部黄色靭帯骨化による脊髄症	976
局所分布	201
局所的温熱療法	695
急性腎不全	822
急性膀胱炎	923

M

窓形成	344
慢性関節リウマチ	774
慢性膀胱炎	923
末梢動脈瘤	528
末梢神経腫瘍	534
迷切	396
メッケル憩室症	1051
3-メトキシ-4-ヒドロキシフェニールエチレングリコール	70
ミソナダゾール	892
ミトコンドリア酸化還元状態	307
門脈圧亢進症	595

N

内因性セクレチン	612, 629
内頸動脈閉塞症	814
内固定法	961
二次性アルドステロン症	519
二枚パッチ法	640
NMR 画像法	557
N-nitroso-bis(2-hydroxypropyl)amine	3, 382
脳動脈	201, 344
脳動脈瘤	79, 344, 1032
脳浮腫	557
脳梗塞	1047
脳幹	907
脳血管撮影	1032

脳血管攣縮	79, 93
脳内出血	423
ノルアドレナリン	201
脳腫瘍	695
脳底動脈	344
尿中 Na ⁺ /K ⁺	519

O

(+)-オクタノイルカチン	365
黄色靭帯	671
オートラジオグラフィ	3, 315, 327

P

ペレット	892
ピロリン酸カリカウム	671
ポリビニールアルコール	104
プロスタグランジン	93

R

Radioactive microsphere 法	583
Rastelli 分類	640
Rastelli 手術	640
輪状部導管	537
輪状膝	537
リン NMR	557
臨床病理所見	315
臨床的研究	118
利尿剤	822
良性グリオーマ	566
良性グリオーマの悪性化	566

S

酸性ホスファターゼ	44
酵素組織化学	3
三尖弁置換術	822
三尖弁逆流量の定量	829
三尖弁輪形成術	829
左室拡張能	831
左室収縮能	831
成人型	539
赤血球溶血液	93
Selective high temperature heating	695
生存率	144
脊椎骨軟骨症	289

脊髓	208, 276, 932, 995
脊髓症	208, 289, 932
脊髓症の病型分類	208, 995
脊髓誘発電位	276, 932
石灰化	671
石灰化粘液腫	159
先天性大脈狭窄症	761
先天性冠動脈瘻	504
シアノアクリレート接着剤	104
脂肪酸々化	365
シメチジン	336
心エコー図	159
四塩化炭素肝硬変症	595
神経梢腫	534
神経根症	208
心筋バイアビリティ	307
心筋保護	307
心筋保護法	439
心筋因子	1
心筋組織酸素濃度	439
心筋代謝	307
脂質過酸化	450
心タンポナーデ	831
シリアンゴールデンハムスター	3, 382
自然歴	504
消化管再建術式	612
消化管出血	336, 1051
食道癌	555
食道胃境界部癌	805
食道再建用胃管	396
手術術式	504
手術結果	504
手術操作	349
手術適応	504
出血性ショック	144, 460, 583
腫瘍免疫	59
僧帽弁後尖の穿孔	159
僧帽弁閉鎖不全	159
側副血行路	814
走査電顕	44
走査電子顕微鏡	671
組織発生	382
組織水	557
腓	732

腓炎	481
腓癌	382
腓管結紮	923
腓切除	732
腓頭十二指腸切除術	612
腓全摘	612

T

大量投与	822
体性感覚誘発電位	423
代謝	557
胆汁	862
胆汁分泌	612, 629
胆管エンドプロスティーシス	514
胆石	14, 862
多臓器不全	363
⁹⁹ TcO ₄ 腹部スキャニング	1051
低酸素細胞	892
低心拍出症候群	831
適応現象	629
凍結損傷	882
トリチウムサイミジン標識指数	315, 327
トリチウムウリジン標識指数	315, 327
トリプシン・インヒビター	732
T細胞成長因子	59
椎間板変性	289
椎管拡大術	945
椎弓切除術	945
椎体窩溝	795
椎体削開術	118
椎体前方転位	774

U

迂回バイパス	528
ウルソデオキシコール酸 (UDCA)	14

V

ビタミンE	481
-------	-----

X

X線学的研究	118
--------	-----

Y

腰部脊柱管狭窄症	976
溶解性支持器	104

溶血·····	495
誘發電位·····	669
輸血·····	583
幽門形成術·····	396

Z

坐骨神經·····	534
前方除圧固定·····	589

全脊柱管狭窄·····	976
前頭蓋窩·····	1040
造影劑漏出·····	1032
頭蓋內病変·····	336
頭蓋內腫瘍·····	892
頭蓋底陷入·····	774
髓内固定法·····	961

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Histochemical Elucidation of Hamster Pancreatic Carcinogenesis Induced by N-nitroso-bis (2-hydroxypropyl) amine

KAZUYUKI MIYAZAKI and HIDENARI TAKASAN

The 1st Department of Surgery, Faculty of Medicine, Kyoto University (Director: Prof. Dr. TAKAYOSHI TOBE), Sakyo-ku, Kyoto, Japan.

YOSHIHIRO HAMASHIMA

The 2nd Department of Pathology, Faculty of Medicine, Kyoto University (Director: Prof. Dr. YOSHIHIRO HAMASHIMA)

Arch Jpn Chir 51: 3~13, 1982.

Hamster pancreatic carcinogenesis induced by N-nitroso-bis (2-hydroxypropyl) amine was observed pathologically and histopathologically. Five weeks later, hyperplasia of intralobular ductules, interlobular ductules and main pancreatic ducts, intrinsular glandular structures and small adenocarcinomas appeared. Twenty-one weeks later, hypertrophic epithelial multiplication increased. After 22 weeks, adenocarcinomas appeared. Macroscopical tumor nodules were also seen. Histochemically, the distribution and intensity of alkaline phosphatase, succinate dehydrogenase, lactate dehydrogenase, glucose-6-phosphate dehydrogenase and NADH tetrazolium reductase in normal pancreases and adenocarcinomas were clarified. The difference of ³H-thymidine uptake among every tissue component of normal pancreases, lesions appeared in DHPN administered pancreases and adenocarcinomas were calculated by autoradiography.

京都大学医学部外科学教室第1講座 宮崎一之, 高三秀成

京都大学医学部病理学教室第2講座 浜島義博

Analysis of Conjugated Bile Acids in Bile by High-pressure Liquid Chromatography II. Clinical Application in Bile of Patients with Gallstones

KEISUKE MARUYAMA

The 2nd Department of Surgery, Faculty of Medicine, Kyoto University (Director: Prof. Dr. YORINORI HIKASA), Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 14~43, 1982.

- 1) Biliary lipid concentrations were found to be low in patients with gallstones.
- 2) The absolute concentrations of taurocholic, tauro-chenodeoxycholic, glycocholic, glycochenodeoxycholic and glycodeoxycholic acids were low in patients with gallstones other than black stones.
- 3) Oral administration of chenodeoxycholic acid, 400mg per day, and ursodeoxycholic acid, 600mg per day, lowered the lithogenic index. Increased amounts of tauro- and glycochenodeoxycholic acids and decreased amounts of tauro- and glycocholic acids were found after chenodeoxycholic acid administration. Increased amounts of glycochenodeoxycholic acid with marked elevation of the G/T ratio were found after ursodeoxycholic acid administration.

京都大学医学部外科学教室第2講座 丸山啓介

Hemodynamic Stress and Developmental Mechanism in Experimental Cerebral Aneurysms in Rats

IZUMI NAGATA

Department of Neurosurgery, Kyoto University Medical School (Director: Prof. Dr. HAJIME HANDA), Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 44~58, 1982.

Cerebral aneurysms were induced in rats treated with unilateral ligation of the common carotid artery with or without hypertension produced by renal infarction. These aneurysms and early aneurysms were investigated by light microscopy and by scanning electron microscopy. Acid phosphatase activity of the induced aneurysms was also histochemically studied. Hypertension, aging, changes of flow pattern in the circle of Willis, and axial flow impingement at the apex were the hemodynamic stresses participating in the development of experimental cerebral aneurysms in rats. The role of endothelial cells and leukocytes in aneurysmal development was also discussed.

京都大学医学部脳神経外科学教室 永田 泉

Induction of Anti-tumor Cell-mediated Immunity by Local Irradiation Against Transplanted Brain Tumor

KINYA SUDA

Department of Neurosurgery, Kyoto University Medical School (Director: Prof. Dr. HAJIME HANDA), Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 59~69, 1982.

Effects of the radiotherapy on the induction of killer cell activity in mice with intracerebrally implanted glioma (methylcholanthrene induced tumor) were studied. During successful radiotherapy, the killer activity against glioma gradually increased in association with the tumor regression. This killer activity was markedly diminished by the treatment of anti-Thy1. 2, and enhanced by Con A stimulation. It was also found that the natural killer activity was enhanced after the irradiation of glioma. These results indicated that the cytotoxic T cells and the natural killer cells induced by the radiotherapy may play, in part, an important role on the regression of brain tumor.

京都大学医学部脳神経外科学教室 須田金弥

5
The Regional Differences of Catecholaminergic Neuron Systems in Experimental Hydrocephalus of Rabbits

SOICHI MIWA

Department of Neurosurgery, Kyoto University Medical School (Director: Prof. Dr. HAJIME HANDA), Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 70~78, 1982.

Contents of noradrenaline (NA), dopamine (DA) and their metabolites were determined in seven brain regions of rabbits with kaolin-induced hydrocephalus (2 days, 1 week and 4 weeks after intracisternal kaolin injection) and the following results were obtained.

- 1) NA contents decreased 2 days after kaolin injection in cerebellum, hypothalamus and pons+medulla. DA contents were unchanged in all brain regions.
- 2) Contents of 3-methoxy-4-hydroxyphenylethyleneglycol sulfate, the major NA metabolite, were elevated in all brain regions through the course of hydrocephalus formation.
- 3) Contents of homovanillic acid, the major DA metabolite, decreased in cerebral cortex and caudate nucleus, but increased in cerebellum, hypothalamus, midbrain and pons+medulla.

京都大学医学部脳神経外科学教室 三輪聡一

6
Mechanical Property of Canine Basilar Artery in Experimental Subarachnoid Hemorrhage

YOSHITO NARUO

Department of Neurosurgery, Kyoto University Medical School (Director: Prof. Dr. HAJIME HANDA), Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 79~92, 1982.

Mechanical properties and connective tissue compositions of canine basilar arteries subjected to experimental subarachnoid hemorrhage (SAH) were studied in vitro. Under the relaxed condition of smooth muscle in saline solution, no dimensional changes of the arterial walls is found between the control and SAH groups, which suggests that luminal narrowing in the cerebral vasospasm results from a reversible smooth muscle contraction. Distensibility of the arterial wall subjected to SAH increases, accompanying with the decrease of collagen to elastin content ratio. Both isometric and isobaric contraction of smooth muscle increase chronologically, having maximum values 7 days after SAH.

京都大学医学部脳神経外科学教室 鳴尾好人

7
Experimental Study of Cerebral Vasospasm—Biochemical Analysis of Vasoconstrictor in the Red Blood Cell Hemolysate and the Mechanism of Action—

SHINICHIRO OKAMOTO

Department of Neurosurgery, Kyoto University Medical School (Director: Prof. Dr. HAJIME HANADA), Sakyo-ku Kyoto, Japan.

Arch Jpn Chir 51: 93~103, 1982.

Biochemical analysis of red blood cell hemolysate revealed that oxyhemoglobin has an important role in the vasoconstrictor action of hemolysate. It was also revealed by a pharmacological analysis that intrinsic vasoconstrictor prostaglandins are involved in the constriction of basilar arteries induced by hemolysate.

京都大学医学部脳神経外科学教室 岡本新一郎

8
Experimental Studies of Nonsuture microvascular Anastomosis Using a Soluble PVA Tube and Plastic Adhesive

SEN YAMAGATA

Department of Neurosurgery, Kyoto University Medical School (Director: Prof. Dr. HAJIME HANADA), Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 104~117, 1982.

A new nonsuture method of microvascular anastomosis was introduced using a soluble tube made of polyvinyl alcohol as an internal stent and plastic adhesive. Straight tubes with bilayered wall were made for end-to-end anastomosis and T-shaped tubes with three-layered wall for end-to-side anastomosis. Anastomoses were easily performed and good patency rates were obtained in both anastomoses. Although anastomotic aneurysm was developed in end-to-side anastomosis, it was prevented by reinforcing the anastomotic site with plastic adhesive.

京都大学医学部脳神経外科学教室 山形 専

Post-Operative Clinical and Radiographical Study on the Partial Vertebrectomy and Fusion of the Cervical Spine

KOJIRO IKEHATA

Department of Orthopaedic Surgery, Yamaguchi University School of Medicine
(Director: Prof. Dr. SUSUMU HATTORI), Ube, Yamaguchi, Japan.

Arch Jpn Chir 51: 118~143, 1982.

A follow-up study of 50 cases which had been treated with the partial vertebrectomy and fusion for cervical spine was carried out clinically and radiographically.

In the cases of severe osteochondrotic myelopathy, more satisfactory clinical results were obtained by this method than by other anterior techniques. It took longer time in multilevel fusion than in single level fusion to get solid union between the grafted bone and the vertebral bodies. Instability which developed at the adjacent intervertebral discs had less influence on the postoperative results. There was generally a satisfactory correlation between the postoperative myelographic improvements and clinical results.

山口大学医学部整形外科学教室 池畑孝次郎

Experimental Studies on Resectability of the Liver in Hemorrhagic Shock

YOSHIO YAMAZAKI

First Department of Surgery, School of Medicine, Mie University (Director: Prof. Dr. RYUJI MIZUMOTO), Tsu, Mie, Japan.

Arch Jpn Chir 51: 144~158, 1982.

The purpose was to elucidate resectability of the liver in dogs with hemorrhagic shock, which was made by bleeding through the femoral artery and maintained for various lengths ranging from 0 to 120 minutes, with or without a hepatectomy.

Long survival was limited to within 15 minutes in shock alone, and to 40% hepatectomy immediately after shock.

The longer in shock or the more removal of the liver, the higher mortality rate due to respiratory circulatory failure during the first week. The causes of death in the 2nd to 3rd week were pneumonia, gastrointestinal bleeding and DIC, or those multiple organ failures. The ICG Rmax and lipid emulsion tests correlated well with the prognosis.

三重大学医学部第1外科学教室 山崎芳生

Mitral Regurgitation due to a Calcified Myxoma

Kazuaki MINAMI, Norikazu TATSUTA and Yorinori HIKASA

The 2nd Department of Surgery, Faculty of Medicine, Kyoto University, Sakyo-ku, Kyoto, Japan.

Tokio TAMURA

Department of Pediatric Circulation, Tenri Hospital, Tenri, Nara, Japan.

Arch Jpn Chir 51: 159~166, 1982.

The patient, a 15-year-old boy, had been suffering from left and right heart failure for one year.

He underwent an operation based on preoperative diagnosis of calcified myxoma in the left atrium and mitral regurgitation. A perforation, 9.5 mm in diameter, in the center of the posterior leaflet of the mitral valve was found. The myxoma in LA had an exposed calcification in the top, which may have rubbed the posterior leaflet, resulting in the perforation. Severe brain damage was brought about following cardiac tamponade, which occurred shortly after the operation. Autopsy was denied.

In a calcified myxoma, ultrasonic cardiography is the most useful and safest examination. When a calcified myxoma is diagnosed, emergency operation should be performed, considering the possible damage to the mitral leaflet and/or chordae tendinae.

京都大学医学部外科学教室第2講座 南 一明, 龍田憲和, 日笠頼則
天理よろづ相談所病院小児循環器科 田村時緒

Surgical Repair of Tetralogy of Fallot Associated with Unilateral Anomaly of the Pulmonary Artery

Kazuaki MINAMI and Yorinori HIKASA

The 2nd Department of Surgery, Faculty of Medicine, Kyoto University, Sakyo-ku, Kyoto, Japan.

Hisaaki KOIE

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Tokio TAMURA

Department of Pediatric Circulation, Tenri Hospital, Tenri, Nara, Japan.

Arch Jpn Chir 51: 167~175, 1982.

Two cases in this report were managed by use of a Hancock's conduit (HC) to completely prevent subsequent pulmonary regurgitation (PR). In the 1st case, the left pulmonary artery (PA) rose from the aorta through a PDA. The PDA was ligated and the HC was placed between the left PA and the right ventricle. Postoperative intraalveolar bleeding was under control after 7 days. In the 2nd case, the left PA was hypoplastic and smaller than the right PA. A HC was sutured to the site between the left and right PA. However, the left PA was kinked interrupting the blood flow. The intraalveolar bleeding, possibly from the right lung, was uncontrolled.

In tetralogy of Fallot with unilateral dysplasia, pulmonary hypertension and PR are anticipated. Thus it is advisable that a HC is used to completely prevent subsequent PR and to overcome right heart failure.

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天理よろづ相談所病院小児循環器科 田村時緒

Malignant Duodenocolic Fistulae —A Report of Three Cases—

KOHICHI NAKAMOTO, AKIRA TANAKA, NAOKI NITTA, SHUNJI KIKUCHI,
YOSHINORI NIO, KENICHI MURASAWA, HITOSHI KATOH and KIMIO HENMI

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Hyogo, Japan.

Arch Jpn Chir 51: 176~185, 1982.

The purpose of this study is to report three cases of malignant duodenocolic fistulae encountered in our hospital and to review the diagnosis and the treatment. Both barium meal and barium enema were available in demonstrating the fistulae. In an attempt to delineate fine structures, we adopted both hypotonic duodenography and superior mesenteric arteriography in addition. In resectable cases we believe one stage radical operation is a treatment of choice for malignant duodenocolic fistulae.

赤穂市民病院外科 中元光一, 田中 明, 新田直樹, 菊池俊二, 仁尾義則, 村沢賢一,
加藤仁司, 辺見公雄

Regional Distributions of Catecholamines in Dog Cerebral Arteries-Existence of Dopaminergic Fibers

YOSHIO SUZUKI and TOMOHISA OKADA

Department of Neurosurgery, Nagoya University School of Medicine (Director: Prof. Dr. NAOKI KAGEYAMA), Showa-ku, Nagoya, Japan.

Arch Jpn Chir 51: 201~207, 1982.

The regional distributions of dopamine (DA) and noradrenaline (NA) were investigated in dog cerebral arteries. The different distribution patterns of these two amines suggest that DA has another role in addition to being a precursor of NA, that is, it may also act as a neurotransmitter contained in its own nerve fibers. Postganglionic sympathetic denervation produced a reduction in the concentrations of both amines. However, there was an apparent discrepancy of decrease between DA and NA since the decrease of DA was less compared with the decrease of NA. These results suggest that a small amount of dopaminergic fibers exist in cerebral arteries.

名古屋大学医学部脳神経外科学教室 鈴木善男, 岡田知久

Clinical Studies on Cervical Osteochondrosis

FUKUZI SENZOKU

Department of Orthopaedic Surgery, Yamaguchi University School of Medicine (Director: Prof. Dr. SUSUMU HATTORI), Ube, Yamaguchi, Japan.

Arch Jpn Chir 51: 208~275, 1982.

Materials for cervical osteochondrosis are 200 cases with myelopathy and 60 cases with radiculopathy treated surgically, and 36 cases with radiculopathy treated conservatively.

The purpose of this study is clinical analysis on cervical osteochondrosis.

The follow-up study for the cases treated surgically, was conducted at the average 2.5 years in radiculopathy and average 5.1 years in myelopathy.

Investigations were as follows.:

These were our classification of type, the transition of subjective symptoms after onset, clinical findings and laboratory findings according to our classification, further the factors conjecturing the severity of neurological deficit, lesional type, the results after treatment, the transition after surgical treatment, the factors determining the results after surgical treatment, the course after discharge, reoperative cases and the others.

山口大学医学部整形外科科学教室 千束福司

Clinical Application of the Segmental Spinal Evoked Potentials at the Cervical Spinal Cord

—An Analysis about the Patients with Cervical Osteochondrosis—

AKIHIKO SHIGEMATSU

Department of Orthopaedic Surgery, Yamaguchi University School of Medicine (Director: Prof. Dr. SUSUMU HATTORI), Ube, Yamaguchi, Japan.

Arch Jpn Chir 51: 276~288, 1982.

The segmental spinal evoked potentials (SSEP) at the cervical spinal cord were measured in 134 cases with cervical osteochondrosis.

In cases with cervico-omo-brachial syndrome, SSEP were clearly obtained from C4-5 to C6-7 intervertebral level.

In cases with osteochondrotic radiculopathy, the abnormal waves were recognized on the first R wave.

In cases with osteochondrotic myelopathy, the abnormal waves were found commonly on the second N wave.

The author believes the level and severity of the cervical spinal cord lesion or root lesion can be determined by use of SSEP.

山口大学医学部整形外科科学教室 重松昭彦

Clinical Study on Thoracic Osteochondrotic Myelopathy

KIYOSHI KAWANO

Department of Orthopedic Surgery, Yamaguchi University School of Medicine (Director: Prof. Dr. SUSUMU HATTORI), Ube, Yamaguchi, Japan.

Arch Jpn Chir 51: 289~306, 1982.

This report presents clinical analysis of thoracic osteochondrotic myelopathy on 18 patients who have been treated surgically.

Back pain or numbness of the lower limbs occurred as an initial symptom (stage I), then sensory disturbance (stage II) and motor disturbance (stage III) of the lower limbs and finally bladder dysfunction (stage IV) were followed.

Plain roentgenograms, tomograms, myelograms and other examinations were useful for diagnosis of the level and degree of lesion in this disorder.

Anterior decompression with fusion and laminectomy were main operative methods, and satisfactory results were obtained more in anterior approach.

Post-operative results in this series were excellent or good in 16 cases (89%) out of 18.

山口大学医学部整形外科科学教室 河野 清

Application of Microfluorometry to Cardiovascular Surgery I. Evaluation of the Viability of Myocardium by Microfluorometry

YUKIO CHIBA

The 2nd Department of Surgery, Faculty of Medicine, Kyoto University (Director: Prof. Dr. YORINORI HIKASA), Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 307~314, 1982.

An on-line, non-invasive method of monitoring the viability of myocardium in cardiac ischemia is described. The technique is based on the differences in spectral properties between the oxidized and reduced forms of pyridine nucleotide. The mitochondrial NADH fluorescence is an efficient indicator of intracellular oxygen concentration and changes in metabolic condition.

Under total cardiopulmonary bypass, the fluorescent emission from the surface of the canine hearts (RV epicardium) was monitored. From the extent of decrease of the NADH fluorescence at reperfusion, four grades of the viability of myocardium in cardiac ischemia were classified.

京都大学医学部外科教室第2講座 千葉幸夫

Autoradiographic Studies on Nucleic Acid Synthesis of Human Gastric Cancer Cells I. Relationship between Nucleic Acid Synthesis of Cancer Cells and Clinicopathological Findings

KAZUNORI INOUE

First Department of Surgery, Kobe University School of Medicine (Director: Prof. Dr. YOICHI SAITOH), Kusunoki-cho, Chuo-ku, Kobe, Japan.

Arch Jpn Chir 51: 315~326, 1982.

The rate of nucleic acid synthesis of human gastric cancer cells was studied autoradiographically and was compared with clinicopathological findings.

- 1) ³H-thymidine labeling index (TLI, mean 22.4%, n=21) ranged from 6.2% to 39.5%. Mitotic index (mean 19.6%) ranged from 11.8% to 34.8%.
- 2) Average TLIs in the cancerous lesions with serosal invasion, in microscopical stages III and IV, in scirrhous type and in cancer cells locating in pm- and ss-layers showed lower values compared with the counterparts.
- 3) ³H-uridine labeling index (mean 92.7%) ranged from 75.0% to 99.8%.

神戸大学医学部外科学教室第1講座 井上和則

Autoradiographic Studies on Nucleic Acid Synthesis of Human Gastric Cancer Cells II. Effects of 5-Fluorouracil on Nucleic Acid Synthesis of Cancer Cells

KAZUNORI INOUE

First Department of Surgery, Kobe University School of Medicine (Director: Prof. Dr. YOICHI SAITOH), Kusunoki-cho, Chuo-ku, Kobe, Japan.

Arch Jpn Chir 51: 327~335, 1982.

Changes in nucleic acid synthesis of gastric cancer cells by oral administration of 5-fluorouracil (5-FU) were evaluated autoradiographically.

- 1) Average ³H-thymidine labeling index (TLI) in the administered group (31.8%, n=13) was a significantly high value compared with that of the control group (22.4%, n=21). This result is considered to show that the pharmacological effects of 5-FU appeared on the cancer cells by the clinical administration of 5-FU.
- 2) Increase in TLI of the administered group was also found in the advanced stages. However, the degree of its increase seemed to be higher in the early stages.
- 3) Average ³H-uridine labeling index (89.9%) was not different from that (92.7%) of control group.

神戸大学医学部外科学教室第1講座 井上和則

Effect of Intravenous Administration of Cimetidine, an H₂ Receptor Antagonist, on Postoperative Gastrointestinal Bleeding in Neurosurgical Cases

KOUZO MORITAKE, KYO NIJIMA, MINORU HOSHIMARU, YUJI KINUTA, HAJIME HANDA

Department of Neurosurgery, Kyoto University Medical School (Director: Prof. Dr. HAJIME HANDA) Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 336~343, 1982.

In 22 patients with postoperative upper gastrointestinal bleeding, cimetidine was given intravenously. Ten cases had subarachnoid hemorrhage following rupture of cerebral aneurysm or cerebral arteriovenous malformation, or hypertensive intracerebral hemorrhage. Eleven other cases had mass lesions located close to the hypothalamus and/or brain stem. In 13 of 22 patients, upper gastrointestinal bleeding occurred within 3 days after craniotomy. Cimetidine was very effective in almost all cases with acute gastrointestinal mucosal lesions (AGML), but poorly effective in older patients with chronic lesions.

京都大学医学部脳神経外科学教室 森竹浩三, 新島 京, 寶子丸稔, 絹田祐司, 半田 肇

Aneurysm at the Fenestration of Basilar Artery—Case Report—

YOKO NAKASU, SATOSHI NAKASU, MINORU KIDOOKA and JYOJI HANDA

Department of Neurosurgery, Shiga University of Medical Science (Director: Prof. Dr. JYOJI HANDA), Otu, Shiga, Japan.

Arch Jpn Chir 51: 344~348, 1982.

An aneurysm at the fenestration of the basilar artery is reported. Six similar cases with an aneurysm at this unusual location have been recorded. In all 7 patients including the present one, the aneurysm characteristically arose at the proximal end of the fenestration, where a structural defect of the medial coat is known to be present.

滋賀医科大学脳神経外科学教室 中洲庸子, 中洲 敏, 木戸岡 実, 半田讓二

Tricuspid Atresia with Polysurgery —A case report—

KAZUAKI MINAMI, NORIKAZU TATSUTA, YUTAKA KONISHI, KATSUHIKO MATSUDA, TOMOHIKO MURAGUCHI, ARIO YAMAZATO, YUKIO CHIBA, YOSHISADA SHIRAIISHI, HIROSHI ISHIHARA and YORINORI HIKASA

The 2nd Department of Surgery, Kyoto University Faculty of Medicine (Director: Prof. Dr. YORINORI HIKASA), Sakyo-ku, Kyoto, Japan.

TADASHI UEDA

The Department of Pediatrics, Kyoto University Faculty of Medicine (Director: Prof. Dr. HARUKI MIKAWA), Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 349~357, 1982.

A case of tricuspid atresia Ib, in which Glenn operation (at 14 m.o.), left sided Blalock-Taussig operation (6 y.o.), Fontan-like operation (9 y.o.), closure of a previously undetected ASD (10 y.o.) and two subsequent operations for hemostasis were performed, is described herein. Profound hypothermia combined with surface cooling and core-cooling by H-L bypass is useful and advisable for polysurgery of the heart, especially when cannulation into SVC is impossible due to severe adhesion.

After a Fontan-like operation, if an ASD is still present, systemic blood pressure may be good, but it is difficult to alleviate cyanosis. It should be emphasized that when prolonged intensive care is necessary, consideration must be given to the patient's mental condition.

京都大学医学部外科学教室第2講座 南 一明, 龍田憲和, 小西 裕, 松田捷彦, 村口和彦, 山里有男, 千葉幸夫, 白石義定, 石原 浩, 日笠頼則
京都大学医学部小児科学教室 上田 忠

Changes in the Energy Substrate after Hepatectomy—Preferential Utilization of Fatty Acids and its Effect on Hepatic Regeneration after Major Hepatectomy—

TOSHIO NAKATANI

The 1st Department of Surgery, Faculty of Medicine, Kyoto University, Sakyo-ku, Kyoto, 606, Japan.

Arch Jpn Chir 51: 365~381, 1982.

Changes in the energy substrate utilized by the remnant liver after hepatectomy were studied in relation to the hepatic energy status in hepatectomized rabbits. It is suggested that the remnant liver metabolism switches to predominant utilization of fatty acid as an energy source when the energy charge of the remnant liver decreases after major hepatectomy; it then becomes able to utilize glucose with the restoration of energy charge level. Fatty acid oxidation contributes to enhanced hepatic regeneration by elevating the decreased energy charge level after major hepatectomy.

京都大学医学部外科教室第1講座 中谷寿男

The Histogenesis of Hamster Pancreatic Cancer Induced by N-nitroso-bis (2-hydroxypropyl) amine

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YOSHIHIRO HAMASHIMA

The 2nd Department of Pathology, Faculty of Medicine, Kyoto University (Director: Prof. Dr. YOSHIHIRO HAMASHIMA), Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 382~395, 1982.

Syrian golden hamsters treated weekly with 125 mg/kg body weight (Group 1), 250 mg/kg body weight (Group 2) or 500 mg/kg body weight (Group 3) of N-nitroso-bis(2-hydroxypropyl) amine were sacrificed at 5, 10, 15, 25, 35 weeks and when moribund. Enlargement of the islets, focal hyperplasia of the ductules and ducts appeared early and became multilayer hyperplasia extending to whole pancreas. In succession, multiplicative lesions appeared at the islets and the ductules. They were first discovered also in exocrine acini. Almost all adenocarcinomas were thought to originate from malignant multiplications. A few of them were thought to originate from intraductal carcinomas of the ducts.

京都大学医学部外科学教室第1講座 宮崎一之, 高三秀成, 戸部隆吉
京都大学医学部病理学教室第2講座 浜島義博

Motility of the Gastric Tube after Surgery of the Upper Alimentary Tract with Special Reference to High Pressure Zone at the Gastroduodenal Junction

EISHI MIZUTA

The Second Surgical Division, Yamaguchi University School of Medicine. (Director: Prof. Dr. KOICHI ISHIGAMI)

Arch Jpn Chir 51: 396~422, 1982.

By means of gastroduodenal manometry, electromyogram and measurement of half gastric emptying time using ^{99m}Tc sulfur colloid, gastric motility after surgery of the upper alimentary tract was investigated. In the gastric tube for esophageal reconstruction following resection of esophageal cancer, the intraluminal pressure at the gastroduodenal junction elevated and evacuation of the gastric contents was delayed. So it is thought that an additional pyloroplasty was necessary to the gastric tube. On the other hand, normal patterns of gastric motility have been kept in the gastroduodenal junction after SPV and it seemed to be unnecessary to add a pyloroplasty to SPV.

山口大学医学部外科学教室第2講座 水田英司

Somatosensory Evoked Potential in Experimental Intracerebral Hemorrhage

MAKOTO SAKAKURA

Department of Neurosurgery, Mie University Medical School, Director: Prof. Dr. SHIRO WAGA Mie, 514 Japan.

Arch Jpn Chir 51: 423~438, 1982.

Somatosensory evoked potential (SEP) was recorded in 16 mongrel dogs with intracerebral hemorrhage which was experimentally simulated by shunting blood from a femoral artery. The natural course was investigated in 9 dogs, and 7 dogs had surgical removal of the intracerebral hematoma within several hours after hemorrhage.

In conclusion, amplitudes of N-1 and P-2 components on the affected side significantly decrease within 3 hours (Table 3, 4). If the intracerebral hemorrhage caused the changes on the SEP and continued for several hours, an abnormality of the SEP could not return to pre-hemorrhagic pattern, in spite of surgical evacuation of the intracerebral hematoma.

三重大学医学部脳神経外科学教室 坂倉 允

Application of Microfluorometry to Cardiovascular Surgery II. Evaluation of the Ischemic Mitochondrial Damage and the Safety Limit of the Intermittent Cold Blood Cardioplegia by Means of Myocardial Metabolism.

YUKIO CHIBA

The 2nd Department of Surgery, Faculty of Medicine, Kyoto University, Sakyo-ku Kyoto, 606, Japan. (Director: Prof. Dr. YORINORI HIKASA)

Arch Jpn Chir 51: 439~449, 1982.

The evaluation of the effects of intermittent cold blood cardioplegia on myocardial protection and ischemic mitochondrial damage by means of NADH fluorescence, myocardial PO_2 , high-energy phosphate compounds and mitochondrial respiratory function is described in this report.

In canine placed on cardiopulmonary bypass, the aorta was clamped and a potassium cardioplegic solution was injected into the aortic root and the myocardial temperature was maintained 15°C by topical cooling. Cold blood cardioplegia (containing potassium 25 mEq/l) was infused into the aortic root (10 ml/Kg) from 100 cm height at 30 minutes intervals.

This experimental study proves that intermittent blood cardioplegia allows prolonged aortic clamping (3 hours) with greater safety. After 3 hours myocardial ischemia, the mitochondrial respiratory chain is damaged and the oxygen delivered by CBC is not used any more in mitochondria.

京都大学医学部外科学教室第2講座 千葉幸夫

Application of Microfluorometry to Cardiovascular Surgery III. Comparison between Cold Blood Cardioplegia and Crystalloid Cardioplegia by Means of Myocardial Metabolism, Lipid Peroxidation and Mitochondrial Coenzyme Q_{10}

YUKIO CHIBA

The 2nd Department of Surgery, Faculty of Medicine, Kyoto University, Sakyo-ku, Kyoto, 606, Japan. (Director: Prof. Dr. YORINORI HIKASA)

Arch Jpn Chir 51: 450~459, 1982.

In this report intermittent cold blood cardioplegia is compared to crystalloid cardioplegia by means of the NADH fluorescence, myocardial PO_2 , myocardial energy charge, tiobarbiturate reactive substance (TBARS) and coenzyme Q_{10} (CoQ_{10}) in the mitochondria of myocardial cell.

This experimental study proves that the intermittent cold blood cardioplegia has apparently several advantages compared with the intermittent crystalloid cardioplegia. The heart is provided with the intermittent reoxygenation and NADH is oxygenated to NAD instantly. The myocardial ATP is preserved well and CP is replenished adequately. The intermittent cold blood cardioplegia does not seem disadvantageous in lipid peroxidation.

京都大学医学部外科学教室第2講座 千葉幸夫

An Analysis of Altered Energy Metabolism in Hemorrhagic and Endotoxin Shock; Experimental Studies on the Basis of Hepatic Mitochondrial Activities

YASUYUKI SHIMAHARA

The First Department of Surgery, Faculty of Medicine, Kyoto University. (Director: Prof. Dr. TAKAYOSHI YOBÉ) Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 460~480, 1982.

The derangement of energy metabolism in hemorrhagic and endotoxin shock was analyzed on the basis of hepatic mitochondrial activities. In hemorrhagic shock, cellular energy level is maintained only by glycolysis, resulting in rapid decrease in energy charge level. In endotoxin shock, it is maintained by β -oxidation of fatty acid, being accompanied by marked enhancement of mitochondrial oxidative phosphorylation. The most basic event between reversible and irreversible shock is whether it is possible or not to maintain the cellular energy charge at high level. It was clarified that the energy charge could not be restored in irreversible stages due to the mitochondrial impairment.

京都大学医学部外科学教室第1講座 島原康行

An Experimental Study of Vitamin E on the Etiology of Pancreatitis

HITOSHI KATO

Second Department of Surgery, Faculty of Medicine, Kyoto University. (Director: Prof. Dr. YORINORI HIKASA)

Arch Jpn Chir 51: 481~494, 1982.

The role of vitamin E (VE) and essential fatty acids (EFA) in the etiology of pancreatitis was examined experimentally. Hamsters were weaned at three weeks and divided into three groups: VE sufficient and EFA added diet (Group 1), VE deficient and EFA added diet (Group 2), and VE, EFA deficient diet (Group 3). Pancreatitis was induced by taurocholate and trypsin, infusing into the pancreatic duct. Severe pancreatitis was induced more frequently in the vitamin E deficient diet group (Groups 2 and 3) than in the vitamin E sufficient diet group (Group 1) ($p < 0.005$). Although in Group 3, severe pancreatitis was recognized somewhat more frequently than in Group 2, this difference was not significant.

京都大学医学部外科学教室第2講座 加藤仁司

Hemolysis after Implantation of Prosthetic Heart Valves

YUTAKA KONISHI, NORIKAZU TATSUTA, KAZUAKI MINAMI, KATSUHIKO MATSUDA, NOBORU NISHIWAKI, YOSHISADA SHIRAISHI, ARIO YAMASATO, YUKIO CHIBA, TOMOHIKO MURAGUCHI, SHINJI MURATA, MASAKI AOTA, MITSURU KITANO and YORINORI HIKASA

The 2nd Department of Surgery, Faculty of Medicine, Kyoto University. (Director: Prof. Dr. YORINORI HIKASA)

Arch Jpn Chir 51: 495~503, 1982.

Intravascular hemolysis following implantation of prosthetic heart valves were studied in 70 patients by determinations of serum hemoglobin, serum haptoglobin, serum lactic dehydrogenase and reticulocyte count. More hemolysis was found in patients with prosthesis in the left heart than in the right heart and in patients with Starr-Edwards cloth-covered valves than with other types, including Starr-Edwards non-cloth-covered valves.

京都大学医学部外科学教室第2講座 小西 裕, 龍田憲和, 南 一明, 松田捷彦, 西脇登, 白石義定, 山里有男, 千葉幸夫, 村口和彦, 村田真司, 青田正樹, 北野 満, 日笠頼則

Surgical Treatment of Congenital Coronary Arterial Fistula

KAZUAKI MINAMI, NORIKAZU TATSUTA, YUTAKA KONISHI, KATSUHIKO MATSUDA, NOBORU NISHIWAKI, ARIO YAMASATO, YUKIO CHIBA, YOSHISADA SHIRAISHI, TOMOHIKO MURAGUCHI and YORINORI HIKASA

The 2nd Department of Surgery, Faculty of Medicine, Kyoto University (Director: Prof. Dr. YORINORI HIKASA)

MICHIO YOKOTA

Department of Cardiovascular Surgery, Shizuoka Children's Hospital

TADASHI UEDA and TADASHI HAYASHIDERA

Department of Pediatrics, Faculty of Medicine, Kyoto University

Arch Jpn Chir 51: 504~513, 1982

Six patients with congenital coronary fistula have been operated upon during a 13 years period. All six cases are of terminal fistula type: left coronary artery to right atrium fistula (4), left coronary artery to right ventricle fistula (1), and right coronary artery to main pulmonary artery fistula (1).

All patients survived the operation and a recent follow-up study showed that they are fully active and well.

Early elective closure of congenital coronary arterial fistula should be indicated in all patients because of the high incidence of late symptoms and complications.

京都大学医学部外科学教室第2講座 南 一明, 龍田憲和, 小西 裕, 松田捷彦, 西脇登, 山里有男, 千葉幸夫, 白石義定, 村口和彦, 日笠頼則
静岡県立こども病院心臓血管外科 横田通夫
京都大学医学部小児科学教室 上田 忠, 林寺 忠

Conversion of Percutaneous Transhepatic Cholangiodrainage Tube into an Endoprosthesis by Means of Burying its External Tip in the Subcutaneous Tissue

HIROYUKI NOGUCHI, MASAHARU KATSUMI, NOBUJI KONO, NOBUO TAKEI, HIROAKI KAWASHIMA, YOJI TABUSE, MASAKAZU SASAKI, MICHIAKI KAKIHARA, YOSHIHIRO SUGIMOTO and HIDEO KIN

Department of Gastroenterological Surgery, Wakayama Medical College

SADAO OKAMURA and YUZO OHSAWA

Department of Surgery, Kainan Municipal Hospital

Arch Jpn Chir 51: 514~518, 1982.

Recently percutaneous transhepatic cholangiodrainage (PTCD) has been performed with safety in patients with inoperable carcinoma of the head of pancreas or the common bile duct and converted into internal drainage using PTCD tube with several side holes in some patients.

PTCD tube with several side holes for internal drainage could be changed for an endoprosthesis by the method that the external tip of the PTCD tube was buried in the subcutaneous tissue.

In 4 patients who had received PTCD for inoperable lesions, PTCD tube with several side holes for internal drainage could be changed for an endoprosthesis by the above-mentioned method.

It is easy, safe and little distressing to perform this method and to remove and reinsert the endoprosthesis.

和歌山県立医科大学消化器外科 野口博志, 勝見正治, 河野暢之, 竹井信夫, 田伏洋治, 川嶋寛昭, 佐々木政一, 柿原美千秋, 杉本恵洋, 金 秀男
海南市民病院外科 岡村貞夫, 大沢祐三

Therapeutic Effect of Canrenoate Potassium (Soldactone®) in Patients after Open-Heart Surgery.

KATSUHIKO MATSUDA, NORIKAZU TATSUTA, YUTAKA KONISHI, KAZUAKI MINAMI, NOBORU NISHIWAKI, ARIO YAMASATO, YUKIO CHIBA, HIROSHI ISHIHARA, SHINJI MURATA, YOSHISADA SHIRAISHI, TOMOHIKO MURAGUCHI, YORINORI HIKASA

The 2nd Department of Surgery, Faculty of Medicine, Kyoto University (Director: Prof. Dr. YORINORI HIKASA) Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 519~527, 1982.

Therapeutic effects of carrenoate potassium (Soldactone®) on urine volume, serum Na⁺, serum K⁺, urine Na⁺, urine K⁺ and urine Na⁺/K⁺ ratio were studied in patients after open-heart surgery, and compared with a control untreated with Soldactone®. Soldactone® (200 mg) was injected intravenously into ten patients daily from two days before to three days after the operation. We concluded that Soldactone® significantly showed a diuretic effect in patients after open-heart surgery, but did not clearly indicate an anti-aldosterone effect.

京都大学医学部外科学教室第2講座 松田捷彦, 龍田憲和, 小西 裕, 南 一明, 西脇登, 山里有男, 千葉幸夫, 石原 浩, 村田真司, 白石義定, 村口和彦, 日笠頼則

Surgical Treatment for the Infected Aneurysms of the Extremities

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MASATAKA OSARAGI**, KEISUKE KODAMA**

**Surgical Department Shimane Prefectural Hospital

Arch Jpn Chir 51: 528~533, 1982.

We analyzed the treatment of 31 peripheral aneurysms and experienced 11 cases of infected aneurysms 7 in femoral, 2 in brachial 1 in radial and 1 in iliac artery.

Adequate treatment requires complete resection of the infected aneurysm wall in contrast to that of ordinary aneurysms. Distal artery may be ligated. But restoration of vascular continuity should be performed in major vessels with extra-anatomic bypass.

島根医科大学第1外科 岡本好史, 山田公弥, 中山健吉
 大津赤十字病院外科 渡辺 裕
 島根県立中央病院外科 大仏正隆, 児玉啓介

Solitary Schwannoma of Sciatic Nerve. Diagnosis by CT

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Arch Jpn Chir 51: 534~536, 1982.

A patient with a long history of sciatic pain due to a solitary schwannoma of the sciatic nerve in the buttock is reported. The location and nature of the lesion were diagnosed preoperatively only with the aid of CT. High resolution CT of recent generation is a useful adjunctive measure in assessment of soft tissue lesion in patients with pain problems.

A Case of Annular Pancreas in the Adult Associated with Cholelithiasis and Congenital Anomaly: Demonstration of the Rare Annular Duct on Cholangiography

YOH KASAHARA, YUKIKAZU YAMADA, SHIGERU TANAKA, NARUMI SONOBE, HIROYA UMEMURA and TAKESHI KUYAMA

Second Department of Surgery, Kinki University School of Medicine (Director: Prof. TAKESHI KUYAMA)

Arch Jpn Chir 51: 537~544, 1982.

A 51 year-old female was discovered annular pancreas by hypotonic duodenography. She was associated with cholelithiasis and congenital ocular anomaly. After partial hepatectomy and choledocholithotomy, cholangiogram through T tube incidentally revealed the common bile duct joining the duct of Wirsung to form a common channel prior to entering the duodenum, and subsequent series demonstrated that the main pancreatic duct was in direct continuity with the duct of annulus. The accessory duct of Santorini was not visualized. The remainder of the pancreatogram was normal. Several characteristics of the annular pancreas in the adult collected from Japanese cases were presented and reviewed.

近畿大学医学部第2外科教室 笠原 洋, 山田幸和, 田中 茂, 園部鳴海, 梅村博也, 久山 健

Nuclear Magnetic Resonance (NMR): Its Application to the Medical Science, Especially to the Field of Neurological Surgery.

RENIN ASATO and HAJIME HANDA

Department of Neurosurgery, Kyoto University Medical School, Kyoto.

Arch Jpn Chir 51: 557~565, 1982.

Recently nuclear magnetic resonance (NMR) imaging and topical magnetic resonance (TMR) have been practically introduced into the medical science. ¹H-NMR imaging (NMR-CT) would offer us not only tomographic images of human body but also pathophysiological findings at molecular level. On the other hand we can noninvasively observe in situ tissue metabolism with ³¹P-TMR. In this article we are going to review shortly the probability of NMR technique from view point of the neurological surgeons and to present our experience.

京都大学脳神経外科学教室 安里令人, 半田 肇

Usefulness of Serial CT Scans for Evaluation of Histology and Prognosis in Gliomas

IKUHIRO AOYAMA

Department of Neurosurgery, Kyoto University Medical School (Director: Prof. Dr. HAJIME HANDA), Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 566~582, 1982.

One-hundred and twenty-eight patients with gliomas were reviewed to study prognostic factors visible on the CT scans.

On sequential CT scans in low-grade astrocytomas, improvement was observed in 70% with a persistent low density area and lack of mass effect or contrast enhancement. CT findings suggestive of malignant transformation were detected in 22.8%.

In malignant gliomas, remission rate was 21.1% in a mean follow-up period of 22.8 months. A ring contrast enhancement was a poor prognostic sign. The cases who had a remission period of more than 6 months survived significantly longer.

Postirradiation brain atrophy was observed in 34%. Delayed radiation brain damage was detected in 4.6%.

京都大学脳神経外科学教室 青山育弘

Role of Blood Flow in the Development of Gastric Mucosal Injury Associated with Various Diseases

I. Changes of Gastric Mucosal Blood Flow in Hemorrhagic Shock

TADAO MANABE

The 1st Department of Surgery, Faculty of Medicine, Kyoto University, Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 583~594, 1982.

The effect of hemorrhage and blood transfusion on the regional blood flow of the stomach was studied using radioactive microsphere technique in a rabbit shock model. The striking increase of mucosal blood flow following blood transfusion caused bleeding from the mucosa of the ischemic corpus in hemorrhagic period. The higher susceptibility of the corpus to hemorrhagic shock may be due to the greater degree of rapid increase of mucosal blood flow occurring in this portion alone after blood transfusion as well as its higher vulnerability to ischemia in the hemorrhagic period.

京都大学医学部外科学教室第1講座 真辺忠夫

Role of Blood Flow in the Development of Gastric Mucosal Injury Associated with Various Diseases

II. Changes of Gastric Mucosal Blood Flow in Hepatobiliary Diseases

TADAO MANABE

The 1st Department of Surgery, Faculty of Medicine, Kyoto University, Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 595~611, 1982.

The mechanism of gastric mucosal injury associated with cirrhosis of the liver, obstructive jaundice and necrosis of the liver was studied from a hemodynamic point of view using radioactive microsphere technique in rabbits. In rabbits with cirrhosis of the liver, a significant increase of blood flow in the corpus and a marked decrease of blood flow in the antrum were observed in the mucosal layer, and erosions or shallow ulcers appeared in the antrum. In rabbits with obstructive jaundice and necrosis of the liver, mucosal blood flow decreased drastically in every part of the stomach and erosions were seen in the corpus of the gastric mucosa.

京都大学医学部外科学教室第1講座 真辺忠夫

Study on Choleric Effect of Endogeneous Plasma Secretin Based on Reconstructive Procedure of Alimentary Tract.

(1) Appraisal of Reconstructive Procedure in Total Pancreatectomy.

KEIZO OGASAWARA

The 1st Department of Surgery, Faculty of Medicine (Director: Prof. Dr. TAKAYOSHI TOBE), Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 612~628, 1982.

The patients with total pancreatectomy had a significantly impaired secretory responses of the plasma secretion compared to those with partial gastrectomy and pancreaticoduodenectomy. Among the patients with total pancreatectomy, those with Billroth II type anastomosis showed a further impaired responses compared to those with Billroth I type anastomosis.

The levels of endogeneously released secretin and biliary secretion had linear relation when localized stimuli were given in the various parts of the alimentary tract. To improve the impaired biliary secretion after total pancreatectomy, Billroth I type anastomosis for the reconstruction procedure of the alimentary tract is recommended.

京都大学医学部外科学教室第1講座 小笠原敬三

Study on Choleric Effect of Endogeneous Plasma Secretin Based on Reconstructive Procedure of Alimentary Tract.

(2) Adaptive Change after Gastroenterostomy.

KEIZO OGASAWARA

The 1st Department of Surgery, Faculty of Medicine (Director: Prof. Dr. TAKAYOSHI TOBE), Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 629~639, 1982.

The adaptive change of the secretin-secreting cells (S-cell) in the small intestine was studied in dogs by measuring simultaneously the secretory responses of endogeneously released plasma secretin and biliary secretion to the infusion of 0.1 N HCl into jejunum or ileum before and after gastrojejunostomy, gastrectomy with gastrojejunostomy, and gastroileostomy, which were designed to let the meals enter directly into jejunum or ileum without passing duodenum. Only jejunum has potential to evoke the adaptively increased secretion of the plasma secretin and bile when exposed to gastric contents and, that food is a main factor to stimulate S-cells to release a increased amount of the hormone.

京都大学医学部外科学教室第1講座 小笠原敬三

Surgical Treatment of Complete Atrioventricular Canal

KAZUAKI MINAMI, NORIKAZU TATSUTA, YUTAKA KONISHI, KATSUHIKO MATSUDA, ARIO YAMASATO, YUKIO CHIBA, HIROSHI ISHIHARA, YOSHISADA SHIRAIISHI, NOBORU NISHIWAKI, TOMOKAZU MURAGUCHI and YORINORI HIKASA

The 2nd Department of Surgery, Faculty of Medicine, Kyoto University (Director: Prof. Dr. YORINORI HIKASA)

TADASHI UEDA and TADASHI HAYASHIDERA

Department of Pediatrics, Faculty of Medicine, Kyoto University (Director: Prof. Dr. HARUKI MIKAWA)

Arch Jpn Chir 51: 640~648, 1982.

Seven patients with complete A-V canal (type A : 4, type B : 2 and type C : 1) have undergone radical operation, using a 'folded single patch' or a 'cross-patch', during a 10 years period. Four patients survived the operation but three patients died. Two of the cases which survived underwent reoperation because of residual shunt and regurgitation, which, occurring from insufficient healing of sutures, resulted in postoperative heart failure.

The advantage of the cross-patch method is that there is no decrease in valve area. Hypoplastic common A-V leaflet should be managed by valve advancement using the cross-patch.

京都大学医学部外科学教室第2講座 南一明, 龍田憲和, 小西裕, 松田捷彦, 山里有男, 千葉幸夫, 石原浩, 白石義定, 西脇登, 村口和彦, 日笠頼則
京都大学医学部小児科学教室 上田忠, 林寺忠

Scanning Electron Microscopic Observation of Ossification and Calcification of the Ligamentum Flavum

SHIGEKI OKA

Department of Orthopedic Surgery, Yamaguchi University School of Medicine, Ube.
(Director: Prof. Dr. SUSUMU HATTORI)

Arch Jpn Chir 51: 671~694, 1982.

According to SEM observation of the ligamentum flavum with no other ossifications in roentgenograms, elastic fibers formed a dense and regular pattern with interconnecting micro-fibrils.

Observation of the ossification of the thoracic ligamentum flavum showed degenerative changes of fibers, followed by the appearance of numerous osteocyte lacunae with granular substance. And finally there appeared osteocytes, resulting in the enchondral ossification.

Observation of the calcification of the cervical ligamentum flavum showed a punched-out region composed of different shapes of crystals, determined CPPD by X-ray diffraction study.

The calcification and ossification of the ligamentum flavum are completely different conditions.

山口大学医学部整形外科教室 丘 茂樹

47

Experimental Study on Local Hyperthermia Therapy of Malignant Brain Tumor Using Radiofrequency

TADAIRO KANAYAMA

Department of Neurosurgery, Brain Reserch Institute, Niigata University (Director: Prof. Dr. RYUICHI TANAKA), Asahi-machi, Niigata, Japan.

Arch Jpn Chir 51: 695~712, 1982.

Local hyperthermia therapy by radiofrequency waves of 13.56 MHz was evaluated in experimental brain tumors of rat and monkey which were induced by Rous sarcoma virus.

Temperature difference between tumor and normal tissues was about 2 to 5°C in rat subcutaneously-transplanted brain tumors and up to 10°C in monkey brain tumors.

Successful treatment was obtained in monkey which showed a complete and permanent cure of the highly malignant glioma.

新潟大学脳研 近所脳神経外科学教室 金山忠弘

Correlation and Anomalies of the Vascular Structure in Glisson's Area around the Hepatic, from the Standpoint of Hepatobiliary Surgery

HIDEKI SUZUKI

First Department of Surgery, School of Medicine, Mie University (Director: Prof. Dr. RYUJI MIZUMOTO)

Arch Jpn Chir 51: 713~731, 1982.

One hundred cadavers were studied to estimate correlation and anomalies of the vascular structure around the hepatic hilum. Such estimation is helpful to perform hepatobiliary surgery safely.

On extrahepatic pathways, an accessory hepatic duct was observed in 9.0%, a dual cystic artery in 30.2% and an aberrant hepatic artery in 33.0%.

Relationships among the portal vein, the hepatic artery and the bile duct were studied at the level of the hepatic duct bifurcation, and on the Cantlie's line and the left segmental fissure which are the cut surface of the typical hepatectomies, such as right and left lobectomies, right trisegmentectomy and left lateral segmentectomy.

三重大学医学部第1外科教室 鈴木英明

49

Studies of Trophic Effects on the Pancreas in Rats. I. Trophic Effect of Trypsin Inhibitor on the Remnant Pancreas after Major Pancreatectomy. II. Influence of obstructive Jaundice on Pancreatic-Trophic Effect of Trypsin Inhibitor. III. Trophic Effect of Obstructive Jaundice alone to the Pancreas

NOBUO BABA

The 1st Department of Surgery, Faculty of Medicine, Kyoto University (Director: Prof. Dr. TAKAYOSHI TOBE) Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 732~760, 1982.

1. Endocrine and exocrine pancreatic functions in rats after major pancreatectomy were improved by oral administration of synthetic trypsin inhibitor.
2. The pancreatico-trophic effect of synthetic trypsin inhibitor was increased by obstructive jaundice in rats.
3. Obstructive jaundice alone also produced a pancreatico-trophic effect in rats.

京都大学医学部外科学教室第1講座 馬場信雄

The Surgical Treatment of Congenital Aortic Stenosis

KAZUAKI MINAMI, NORIKAZU TATSUTA, YUTAKA KONISHI, KATSUHIKO MATSUDA, ARIO YAMASATO, YUKIO CHIBA, HIROSHI ISHIHARA, YOSHISADA SHIRAIISHI, TOMOHIKO MURAGUCHI, NOBORU NISHIWAKI and YORINORI HIKASA

The 2nd Department of Surgery, Faculty of Medicine, Kyoto University (Director: Prof. Dr. YORINORI HIKASA)

TADASHI UEDA

Department of Pediatrics, Faculty of Medicine, Kyoto University

TOKIO TAMURA

Department of Pediatric Circulation, Tenri Hospital

Arch Jpn Chir 51: 761~773, 1982.

In supravalvular AS, except for the hypoplastic type, the use of a Dacron patch poses no problem in surgical treatment.

In valvular AS, the patient less than 8 years old should be treated by commissurotomy, a safe palliative operation, as a first choice of surgical procedure until the time when radical operation (AVR with or without enlargement of aortic annulus) can be performed.

In subvalvular AS, the membranous discrete type was treated by transaortic resection of the obstructive muscle with good results. In IHSS, clear surgical indications are necessary in order to achieve good results.

京都大学医学部外科学教室第2講座 南 一明, 龍田憲和, 小西 裕, 松田捷彦, 山里有男, 千葉幸夫, 石原 浩, 白石義定, 村口和彦, 西脇 登, 日笠頼則
京都大学医学部小児科学教室 上田 忠
天理よろづ相談所病院小児循環器科 田村時緒

Clinical Studies of Cervical Spine in Rheumatoid Arthritis

TETSUJI TAIHARA

Department of Orthopaedic Surgery, Yamaguchi University School of Medicine Ube, Yamaguchi (Director: Prof. Dr. SUSUMU HATTORI)

Arch Jpn Chir 51: 774~794, 1982.

Pathological changes of the cervical spine were investigated in 231 patients of rheumatoid arthritis. In the clinical features, local symptoms were found frequently, in 154 cases (67%), however, cord symptoms were, in 12 cases (5%).

In X-ray, atlant-axial subluxations were found in 78 cases (34%).

Subaxial subluxation is less frequent, found in 23 cases (9%).

Follow-up observation on 23 cases revealed that atlanto-axial subluxation appeared in 3 cases (30%) and subaxial subluxation in 3 cases (14%).

Surgical treatment was performed in 8 cases of atlanto-axial subluxation and 2 cases of subaxial subluxation. The results were generally satisfactory, except one case was died.

山口大学医学部整形外科学教室 多原哲治

Clinical Studies of Ossification of the Spinal Ligaments

KAZUYUKI SAKURADA

Department of Orthopedic Surgery, Yamaguchi University School of Medicine. (Director: Prof. Dr. SUSUMU HATTORI)

Arch Jpn Chir 51: 795~804, 1982.

The radiological studies of 158 cases with ankylosing hyperostosis of the spine (AH) are carried out.

There is some relation between the stage of AH and the one of ossification of supraspinous ligament (OSSL).

Hyperostotic type of ossification of posterior longitudinal ligament (OPLL) seems to be a part of AH.

Spondylotic type of OPLL can be divided into two groups, that is to say, spondylotic OPLL with spondylosis having less capacity of ossification and the one with AH having more ossification diathesis.

Hahn's groove of the vertebral body is observed in 94 cases (59.5%) out of 158.

山口大学整形外科学教室 桜田和之

A Case of Spontaneous Nonsurgical Pneumoperitoneum Associated with Adenocarcinoma in the Esophagogastric Junction

YOH KASAHARA, SHIGERU TANAKA, YUKIKAZU YAMADA, NARUMI SONOBE, HIROKI MATSUMOTO, TAKAAKI SUDO, HIROYA UMEMURA, SEI SHIRAHARA and TAKESHI KUYAMA

The Second Department of Surgery, Kinki University School of Medicine (Director: Prof. Dr. TAKESHI KUYAMA)

SHUJI KAWAI

Surgical Service, Wakakusa Daiichi Hospital (President: Dr. HIROSHI KAWAI)

Arch Jpn Chir 51: 805~813, 1982.

A 47-year-old housewife suffering from carcinoma in the esophagogastric junction developed so-called nonsurgical pneumoperitoneum preoperatively. Several causative factors producing this pneumoperitoneum have been reported in the literature, such as intrathoracic, abdominal, gynecologic, iatrogenic, and mixed. In our case, involvement of the carcinoma and resultant disturbance of eructation developed the expanded stomach containing swallowed air. Although true process of air leak through the stomach was not detectable, the cause of this pneumoperitoneum in the patient may be due to alteration of gas-permeability of the gastric wall resembling pneumatosis cystoides intestinalis. As a rule, urgent laparotomy is unnecessary in nonsurgical pneumoperitoneum.

近畿大学医学部第二外科学教室 笠原 洋, 田中 茂, 山田幸和, 園部鳴海, 松本博威, 須藤峻章, 梅村博也, 白羽 誠, 久山 健
若草第一病院外科 川合秀治

Bilateral Internal Carotid Occlusion with Unusual Collateral Pathways. Report of case.

SATOSHI NAKASU, YOKO NAKASU, KAZUO OKAMOTO*, MANABU SATO, ISAO MATUDA, and JYOJI HANDA

From the Department of Neurosurgery, Shiga University of Medical Science, Ohtsu, Shiga, Japan.

*Department of Neurosurgery, Ohtsu Red Cross Hospital

Arch Jpn Chir 51: 814~821, 1982.

A case of bilateral internal carotid occlusion with unusual collateral pathways is reported. In a 32-year-old man with subarachnoid hemorrhage, cerebral angiography demonstrated bilateral carotid occlusion at the cavernous portion. Small arteries arose from the cavernous portion of the ICA, together with the internal maxillary branches, formed the dural arterial network in the presellar region, from which the cerebral arteries were partially reconstructed. Such abnormal channels have been described as "rete mirabile" in a few reports. We believe that these anastomoses, though extremely rare, represents the secondarily hypertrophied remnants of first and second arterial arches as collateral routes.

滋賀医科大学脳神経外科学教室 中洲 敏, 中洲庸子, 岡本和夫*, 佐藤 学, 松田 功, 半田譲二

55

Large Dose of Diuretic for Treatment of Acute Renal Failure after Open-Heart Surgery A, case report

KATSUHIKO MATSUDA, NORIKAZU TATSUTA, YUTAKA KONISHI, KAZUAKI MINAMI, NOBORU NISHIWAKI, ARIO YAMASATO, YUKIO CHIDBA, HIROSHI ISHIHARA, SHINJI MURATA, YOSHISADA SHIRAISHI, TOMOHIKO MURAGUCHI, YORINORI HIKASA

The 2nd Department of Surgery, Faculty of Medicine Kyoto University (Director: Prof. Dr. YORINORI HIKASA) Sakyo-ku, Kyoto, Japan

Arch Jpn Chir 51: 822~828, 1982.

Acute renal failure is an unusual but lethal complication following open-heart surgery. Recently we have encountered acute renal failure after tricuspid valve replacement. A 45-old man who had had his mitral valve replaced fourteen years before, suffered from acute renal failure after tricuspid valve replacement. Fortunately this patient recovered from it with large dose of diuretic (8390 mg/day). We have described its etiology, prognosis and his postoperative course.

京都大学医学部外科学教室第2講座 松田捷彦, 龍田憲和, 小西 裕, 南 一明, 山里有男, 千葉幸夫, 白石義定, 村田真司, 村口和彦, 西脇 登, 日笠頼則

Transesophageal M-mode Echocardiography: Its Clinical Application for Evaluation of Left Ventricular Function Soon After Cardiac Surgery

TOMOHIKO MURAGUCHI

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The 2nd Department of Surgery, Kyoto University School of Medicine (Director: Prof. Dr. YORINORI HIKASA) Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 831~861, 1982.

Transesophageal M-mode echocardiography provided a clear echogram as a mirror image of the anterior echocardiogram even during and soon after cardiac surgery. Various measurements by this method correlated well with those obtained by anterior echocardiography.

Observing the changes in EF, mVcf, STI and PSP/ESD offered much information concerning LV systolic function after cardiac surgery. Moreover, measurement of pulmonary capillary wedge pressure, combined with LV volume by this method, provided LV diastolic characteristics ("normalized compliance").

Therefore, transesophageal echocardiography appears to be valuable for the evaluation of LV function after cardiac surgery.

大阪市立大学医学部外科学第二講座 村口和彦

57

Biliary Excretion of Copper, Manganese and Zinc in Humans

TSUKASA SEKIYA

The 2nd Department of Surgery, Faculty of Medicine, Kyoto University (Director: Prof. Dr. YORINORI HIKASA) Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 862~881, 1982.

The biliary excretion of copper, manganese and zinc in humans was studied by new methods in order to understand their excretion and to determine the adequate dosage of them under total parenteral nutrition and their role in the gallstone formation. Copper excretion was highly complicated and greatly related to bilirubin. Manganese was highly related to bile acids strongly suggesting that it is in enterohepatic circulation. From the result herein, recommended dosage of trace elements under total parenteral nutrition is discussed and the possibility of their important roles in gallstone formation is suggested.

京都大学医学部外科学教室第2講座 関谷 司

Possible Application of Nuclear Magnetic Resonance (NMR) Imaging to the Study of Brain Edema in Sliced Rat Brain

RENIN ASATO

Department of Neurosurgery, Kyoto University Medical School (Director: Prof. Dr. HAJIME HANDA) Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 882~891, 1982.

A series of the sliced rat brain were imaged by a prototype mini-NMR imager. High spatial resolution and excellent object contrast were realized. Images of vasogenic edema from the sliced brain clearly showed the chronological sequences of edema. Paradoxical enhancement effect with EDTA-2Na-Mn might be seemed to enable the evaluation of the blood-brain barrier permeability changes in NMR images.

京都大学医学部脳神経外科学教室 安里 令入

59

Radiosensitizing Effect of Misonidazole in Radiotherapy for Intracranial Tumors

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Department of Neurosurgery, Kyoto University Medical School (Director: Prof. Dr. HAJIME HANDA) Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 892~906, 1982.

The radiosensitizing effect of misonidazole was studied experimentally and clinically. Satisfactory radiosensitizing effect was observed in an experimental system using intracranially transplanted 203-glioma in C57BL mice. Then misonidazole was given orally to 27 patients with brain tumors as a clinical trial. In the next step, local administration of misonidazole pellet was studied in order to increase the intratumoral concentration of misonidazole. Constant release of misonidazole from the pellet was observed in both in vitro and in vivo experiments. As a clinical application of misonidazole pellet, 3 patients with brain tumors have been treated by local administration of misonidazole pellet into the tumor bed as an adjunct to radiotherapy.

京都大学医学部脳神経外科学教室 大塚 信一

60
Experimental Studies on the Effect of Brain Stem Function on the Cerebral Arterial Responsibility by means of Auditory Brain Stem Response and Ultrasonic Doppler Flowmeter in Dogs

YOSHIHIRO TAKEBE

Department of Neurosurgery, Kyoto University Medical School (Director: Prof. Dr. HAJIME HANDA) Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 907~922, 1982.

The role of brain stem function in the regulation of cerebral blood flow was studied in anesthetized and immobilized dogs. Cerebral cortical blood flow was measured by an ultrasonic Doppler venous outflow method, and auditory brain stem evoked response was recorded epidurally to monitor brain stem function. Our data suggest that cerebral cortical circulation is controlled by the brain stem function.

京都大学医学部脳神経外科学教室 武部吉博

61

Role of Blood Flow in the Development of Gastric Mucosal Injury Associated with Various Diseases

III. Changes of Gastric Mucosal Blood Flow in Pancreatic Diseases

TADAO MANABE

The 1st Department of Surgery, Faculty of Medicine, Kyoto University, Sakyo-ku, Kyoto, Japan.

Arch Jpn Chir 51: 923~931, 1982.

The mechanism of development of gastric mucosal injury associated with chronic and acute pancreatitis was studied from a hemodynamic point of view by a radioactive microsphere technique. In the short-term (1 week) total PDL group, longterm (2 months) 70% PDL group and long-term total PDL group, blood flow in the corpus of the stomach was significantly increased and that in the antrum decreased. In the acute pancreatitis group, 6 hours after infusion of autologous bile into the pancreatic duct, a marked decrease of blood flow was observed in the corpus of gastric mucosa.

京都大学医学部外科学教室第1講座 真辺忠夫

62
Studies on Apinal Evoked Potentials in Cervical Spondylotic Myelopathy

—Using both Segmental and Conductive SEP—

HIRONOBU YAMASAKI

Department of Orthopedic Surgery, Yamaguchi University School of Medicine (Director: Prof. Dr. SUSUMU HATTORI) Ube, Yamaguchi, Japan.

Arch Jpn Chir 51: 932~944, 1982.

Spinal evoked potentials (SEP) were measured in 47 patients with cervical spondylotic myelopathy. Both segmental SEP and ascending conductive SEP were measured in each intervertebral levels of 20 patients. In the type I, segmental SEP showed abnormalities and ascending conductive SEP were abnormal.

In the type II and III, segmental SEP almost showed abnormalities and ascending conductive SEP were abnormal.

SEP is a good method to know the function of the spinal cord.

山口大学医学部整形外科科学教室 山崎博信

63

Experimental Study on Enlargement of the Spinal Canal of the Cervical Spine

—With Special Reference to

Post-operative Scar Tissue Formation—

AKIHIRO NONAKA

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Arch Jpn Chir 51: 945~960, 1982.

An histological observation was performed experimentally to clarify the transition of post-operative scar tissue after enlargement of the cervical spinal canal. In the group of enlargement of the canal, scar tissue was invading into the spinal canal through the defect, however, and minimized gradually after three weeks.

New bone formation was recognized at the cut edges and dorsal side of the laminae. These findings were nearly same as those in the group of one-third laminectomy.

On the basis of this experimental study, enlargement of the spinal canal is thought to be a method of protecting the spinal cord from the secondary compression due to the scar tissue formation and also maintaining the stability of the spine as well as obtaining sufficient posterior decompression.

山口大学医学部整形外科科学教室 野中昭宏

A Clinical Study of Ender's Nailings in Pertrochanteric Fractures

SUMIDA, MIKIO

Department of Orthopedic Surgery Osakafu Saiseikai Nakatsu Hospital, Osaka.

Arch Jpn Chir 51: 961~975, 1982.

Since September in 1974, we have used Ender's nailings in the treatment of pertrochanteric fractures. Up to 1981, we treated 112 cases.

A retrospective study on this method showed good results with the following advantages: very low infection rate (0%), low mortality (2.7%), minimal damage to elderly patients and better mechanical stability. There is earlier mobilization without any nail failures.

We mentioned some technical considerations concerning the causes of knee complaints and backing-out of the nails.

大阪済生会中津病院整形外科 住田幹郎

Radiographic and Clinical Studies of the Entire Spinal Canal Stenosis

KAZUHIRO SAKAI

Department of Orthopaedic Surgery, Yamaguchi University School of Medicine (Director: Prof. Dr. SUSUMU HATTORI)

Arch Jpn Chir 51: 976~994, 1982.

In the cases of disorders of spinal cord or cauda equina compression, sagittal diameter of the entire spinal canal tends to be narrower than that in normals. Therefore, the entire spinal canal stenosis is regarded as the basis of the disorders.

Then, we proscribed the severe standard ($C_5 \leq 13$ mm, $T_{11} \leq 12$ mm, $L_4 \leq 15$ mm) and the mild standard ($C_5 \leq 14$ mm, $T_{11} \leq 13$ mm, $L_4 \leq 17$ mm) for the entire spinal canal stenosis. The film-focus distance is 1.5 m at C_5 , 1 m at T_{11} and L_4 .

Clinical characteristics in the entire spinal canal stenosis are

- 1) various neurological deficits,
- 2) combined myelographic filling defects in other portions,
- 3) urinary-fecal disturbance and
- 4) poor recovery after treatment, although they are not specific.

山口大学医学部整形外科科学教室 酒井和裕

Long-term Follow-up Results of Cervical Spondylotic Myelopathy—More Than 5 Years Post-operatively—

KOZOH SUNGAO

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Arch Jpn Chir 51: 995~1024, 1982.

Ninety-one cases were able to be followed up for more than 5 years.

Results at the time of final follow-up were excellent in 57%, good in 28%, fair in 9%, unchanged in 3% and worsened in 3%.

Long-term results were influenced by the factors of the age, duration of the history, results at the time of discharge, spinal canal stenosis and operative methods.

Results were deteriorated in 19% cases after the time of discharge up to the time of follow-up.

The deterioration tended to occur nearly 3-7 years after surgery and two cases were submitted for re-operation.

山口大学医学部整形外科科学教室 砂金光誠

Intracranial Tuberculoma without Evidence of Systemic Tuberculosis

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Arch Jpn Chir 51: 1025~1031, 1982.

A case of intracranial tuberculoma without evidence of extracranial tuberculosis was reported. CT showed an isodensity mass with perifocal edema in the left parietooccipital region. There was a small calcification in the periphery of the mass. Variability of CT appearance was noted in reviewing the literature, probably due to the difference in clinical stage. Diagnostic difficulty in differentiation from other brain tumors still remains, especially in cases without evidence of history of tuberculosis.

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Extravasation from an Aneurysm during Angiography Report of a Case with Survival

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Arch Jpn Chir 51: 1032~1039, 1982.

A case with the extravasation from aneurysmal rupture during angiography is presented, and the available literature on this serious complication is reviewed. Two groups, the one in which the patients expired and the other in which the patients survived, are compared, and the possible prognostic factors are analyzed.

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69

Dural Arteriovenous Malformation in the Anterior Cranial Fossa: Report of a Case

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Arch Jpn Chir 51: 1040~1046, 1982.

A patient with a dural arteriovenous malformation involving the base of the anterior cranial fossa bilaterally was reported. Initial clinical symptoms were severe headaches of acute onset and diplopia. An intracranial hematoma was evacuated and a dural arteriovenous malformation was totally removed. The literature on the dural arteriovenous malformation of the anterior cranial fossa was reviewed. The cause of oculomotor palsy remains obscure.

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Occlusion of Heubner's Artery —CT and Clinical Findings—

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Arch Jpn Chir 51: 1047~1050, 1982.

A case of occlusion of the left Heubner's artery in a right-handed, 51-year-old man is reported. Cardinal clinical features were transient right hemiparesis and mental disturbance, especially intellectual defect. Low density areas were found at CT in the globus pallidus, putamen, anterior limb of the internal capsule and a part of the caudate nucleus. It is well known that the occlusion of the Heubner's artery causes transient motor paresis of upper extremity on the contralateral side. However, in the case where the Heubner's artery is remarkably well developed when compared with the medial striate arteries as was the case in this patient, it should be noted that the occlusion of the Heubner's artery may well causes grave mental disturbance, in addition.

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71

A Case of Meckel's Diverticulum Diagnosed by $^{99m}\text{TcO}_4$ Abdominal Scanning

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Arch Jpn Chir 51: 1051~1055, 1982.

Meckel's diverticulum is a common cause of gastrointestinal tract haemorrhage in children, but the preoperative diagnosis has been thought to be difficult. Recently, the visualization with ^{99m}Tc -pertechnetate is reported to be most useful to define this lesion. We have encountered one case of Meckel's diverticulum diagnosed by $^{99m}\text{TcO}_4$ abdominal scanning, which shows the area of abnormal uptake. At operation Meckel's diverticulum was found and this was removed by resection. Histological findings reveals ectopic gastric mucosa and an ulcer at the base of Meckel's diverticulum.

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