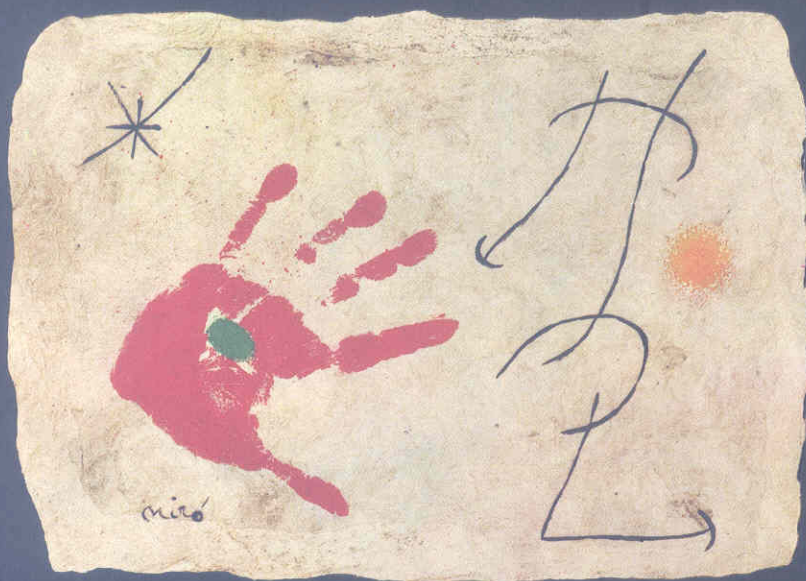




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XIV CONGRESS OF THE EUROPEAN SOCIETY FOR SURGICAL RESEARCH

May 6-9 1979 - BARCELONA



**14th CONGRESS of the
EUROPEAN SOCIETY
FOR SURGICAL RESEARCH**

PROGRAMME

MAY 6-9, 1979

BARCELONA, SPAIN



14th Congress of the E. S. S. R.
Barcelona - Spain

UNDER THE HIGH PATRONAGE OF THEIR MAJESTIES

**THE KING
DON JUAN CARLOS I**

and

**THE QUEEN
DOÑA SOFIA**



THE EUROPEAN SOCIETY FOR SURGICAL RESEARCH

Founded by R. Benichoux in 1966

GENERAL COMMITTEE:

<i>President:</i>	M. LEMPINEN (Finland)
<i>President Elect:</i>	R. CAMPRODON (Spain)
<i>Vice President:</i>	L. LAMBOTTE (Belgium)
<i>Secretary General:</i>	D. WESTBROEK (The Netherlands)
<i>Treasurer:</i>	K. MESSMER (W. Germany)
<i>Committee Members:</i>	O. BOECKL (Austria)
	J. P. CACHERA (France)
	T. V. KEAVENY (Ireland)
	W. OLSZEWSKI (Poland)

Previous Congresses and Past Presidents:

NANCY (1966), R. Benichoux
LOUVAIN (1967), J. J. Haxhe
MUNICH (1968), W. Brendel
DAVOS (1969), U. H. Gruber
VENICE (1970), T. Longo
HELSINGBORG (1971), S. Bengmark
AMSTERDAM (1972), P. Kloppe
OSLO (1973), L. Semb
SALZBURG (1974), O. Boeckl
PARIS (1975), J. P. Cachera
dublin (1976), T. V. Keaveny
WARSAW (1977), W. Olszewski
HELSINKI (1978), M. Lempinen

Coming Congress: Brussels (1980)



14th Congress of the E.S.S.R.

HONORARY PRESIDENT

HIS MAJESTY THE KING DON JUAN CARLOS I

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HONOURABLE JOSEP TARRADELLAS

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Ilmo. Sr. Dr. J. A. Salvá Miquel
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Ilmo. Sr. Dr. L. Serrat Pagès
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Ilmo. Sr. Dr. J. González Sastre
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Ilmo. Sr. Dr. J. Corbella Corbella
Decano de la Facultad de Medicina de la Universidad de Barcelona

Ilmo. Sr. Dr. A. Camprodón Bertrán
Jefe Local de Sanidad

Ilmo. Sr. Dr. A. Vega Sala
Decano de Asistencia Médica Municipal

LOCAL ORGANIZING COMMITTEE:

- Chairman:* R. Camprodón, Barcelona.
- Members:* I. M. Arcelus, Granada
F. Bacci, Palma de Mallorca
F. Badosa, Barcelona
J. L. Balibrea, Barcelona
D. Figuera, Madrid
C. G. Mendoza, Barcelona
C. Pera, Barcelona
J. Puig La Calle, Barcelona
S. Tamames, Madrid
- Secretariat:* J. Domingo
J. M.^a Fabregat
J. Solsona
M. Trias

Secretariats's consulting-coordination: V. Bosch.

GENERAL INFORMATION

CONGRESS PREMISES:

Scientific activities will take place at the Second Basement and the First Floor of the Princesa Sofia Hotel, located at «Plaza Pío XII», Barcelona, 28, Telex 51032-E.

REGISTRATION:

Registration desks are located on the First Basement of the Princesa Sofia Hotel from May 6th through May 9th, with the following time-table:

May 6, from 14.00 to 18.00 hours.

May 7, from 08.30 to 18.00 hours.

May 8, from 08.30 to 13.00 hours.

The Organizing Committee guarantees last minute inscriptions only the documentation available at the moment final registration takes place.

REGISTRATION FEES:

- Members of E.S.S.R.: US\$ 130
Non Member of E.S.S.R.: US\$ 160
* Junior Worker: US\$ 75
** Accompanying Person: US\$ 75
Payments: During the Congress all payments should be made in the Secretariat located on the First Basement of the Princesa Sofia.

The registration fee includes:

- for delegates: Attendance and participation at scientific sessions
and exhibitions
Welcome Cocktail
Musical Evening
for accompanying persons: See Social Programme.

IDENTIFICATION:

All participants are requested to wear their identification badge during the Congress. Access to scientific activities is strictly by presentation of active delegate badge. Accompanying persons are allowed only to attend the Social Programme by presentation of their badge at all events.

Badges: Delegate: White
Chairman: White — green dot
Organizing Committee: White — red dot
Accompanying Person: Yellow

WORK LUNCHEONS: Work luncheons are not included in the fee but participants will be able to have lunch at one of the restaurants of the Princesa Sofia at a price of US\$ 8 per lunch. Tickets can be purchased at the Congress Secretariat.

* Junior Workers are graduates engaged in research under 28 years of age; Spanish residents are considered as junior workers. Participants registering in this category must attach a letter signed by their Department Head to their completed registration form; Spanish residents must proof their residence.

** Accompanying Persons are those who do not take part in the scientific activities.

- CLOSING DINNER:** The Congress will end with a dinner on Wednesday, May 9th. Individual payment of US\$ 40 per person is required for those wishing to attend this event.
Last minute reservations must be paid not later than Tuesday, May 8th, at 18:00 h.
- TRANSPORTATION:** A special bus service has been arranged to transport participants from the official hotels at 8:00 h. to the Congress Premises (Princesa Sofia Hotel) and back to their hotels at 17:30 h.
Bus transportation will be provided for the Ladies' programme and for all social events.
- DRESS:** No formal attire is required for the social events.
- BANK:** Banca MAS SARDA will offer a banking service (exchange and other) in an office located on the same floor of the Congress Secretariat at the Princesa Sofia.
- MESSAGES:** Messages can be inserted in a special board placed near the Congress Secretariat.
- CERTIFICATE OF ATTENDANCE:** Will be handed to all participants who request it on Wednesday, May 9th, at the Congress Secretariat from 10:00 h.

SOCIAL PROGRAMME

Sunday, May 6th

20:00 h.	Wellcome Cocktail (*)	All participants
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Monday, May 7th

15:00 h.	Sightseeing Tour of Barcelona I	Accompanying persons
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20:00 h.	Musical Evening (*)	All participants
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Tuesday, May 8th

10:00 h.	Tour - Sitges	Accompanying persons
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20:00 h.	Reception (*)	All participants
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Wednesday, May 9th

10:00 h.	Sightseeing Tour of	Accompanying persons
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21:00 h.	Barcelona II	
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21:00 h.	Closing Dinner (*)	All participants (pre- vious ticket acquisition)
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(*) Location and time are indicated on invitation cards handed with documentation to all registered participants.

NOTES ON SCIENTIFIC PROGRAMME

Information for Chairmen: Abstracts pertaining to each session will be handed to the Chairman in advance. Chairmen are allowed time both to introduce the session as well as for discussion at the end of each communication or at the end the session. Chairmen's total time presentation and/or discussion must not exceed ten minutes (10').

Information for speakers: Each speaker will be allowed 10 minutes for presentation and 5 minutes for discussion. At the end of each session there will be time for a brief general discussion. The official language of the Congress is English.

Slides: Each room will be equipped with a slide projector of 5x5 cm. (2x2 inches). No other formats will be accepted. The authors must hand their slides to the Secretariat 2 hours in advance of the session and collect them immediately after it finishes. The Organizing Committee will not be responsible for possible losses.

A trial machine will be available at the Secretariat for classifying slides.

Information for participants of poster session: Authors presenting their abstracts as posters must follow the instructions given in the Preliminary Programme. All necessary material for this purpose will be handed to authors at the Secretariat. The author of each poster must spend a minimum of one hour a day (use time-indicator) beside his poster in order to answer any questions. Texts must be recovered at the end of the scientific activities of the Congress.

Information for participants projecting films: Films accepted must be submitted to the Secretariat at the beginning of the Congress activities and collected immediately after their projection, which will take place at the time indicated on the Programme. Authors projecting films must be present during the projection and discussion.

Publications: All abstracts accepted will be published in a Supplement of European Surgical Research. Posters and Films accepted will be published in a separate book of Abstracts.

MONDAY May 7

ROOM LERIDA

10:00 h. OPENING CEREMONY OF THE CONGRESS

Welcome of the President of the Organizing Committee
R. CAMPRODON (Barcelona).

Presidential Address: M. LEMPINEN (Helsinki)
President of the European Society for Surgical Research.

Opening Conference: «Enzymes in Tissues»
by A. SOLS (Madrid).

11:00 h. COFFEE BREAK

ROOM LERIDA

KIDNEY TRANSPLANTATION

Chairmen: R. Y. CALNE (Cambridge)
A. CARALPS (Barcelona)

11:15 h. RENAL ENERGY METABOLISM DURING HYPOTHERMIC STORAGE. COMPARATIVE EXPERIMENTS ON DOGS, RATS AND GUINEA PIGS.

J. H. Fisher, S. Marsen, P. Fabri and W. Isselhard (Köln).

11:30 h. RENAL PRESERVATION: A SIMPLE METHOD OF PREVENTING WARM ISCHEMIC INJURY.

A. R. Fernando, J. M. Fitzpatrick, W. F. Hendry, L. E. Watkinsons, H. N. Whitfield and J. E. A. Wickham (London).

11:45 h. SUCCESFUL 24 HOURS CANINE KIDNEY STORAGE AT -2° C.

G. Bromberger, R. Grundman, D. Helling and H. Pichlmaier (Köln).

12:00 h. STUDIES OF THE ACTION OF CYCLOSPORIN A ON RABBIT RENAL ALLO GRAFTS.

D. C. Dunn and D. J. G. White (Cambridge).

12:15 h. KIDNEY GRAFT SURVIVAL AFTER DONOR PRE-TREATMENT IN DOGS RECEIVING PER-OPERATIVE TRANSFUSIONS.

C. J. vd Linden, W. A. Burman, A. S. Fabricant, J. Jeekel, J. M. Greep (Maastricht).

- 12:30 h. THE INFLUENCE OF BLOOD TRANSFUSIONS AND MATCHING FOR DR—ANTIGENS ON KIDNEY ALLOGRAFT SURVIVAL IN UNRELATED RHESUS MONKEYS.
A. A. van Es, R. L. Marquet, J. J. van Rood, J. M. Greep and H. Balner (Maastricht).
- 12:45 h. PROLONGATION OF RENAL ALLOGRAFT SURVIVAL IN DLA-TISSUE TYPED BEAGLES AFTER THIRD PARTY LEUCOCYTE ERYTHROCYTE TRANSFUSIONS.
H. Obertop, A. B. Bijnen, H. M. Vriesendorp, R. H. Schreve, D. L. Westbroek (Rotterdam).

ROOM GERONA

HEART. SURGICAL ASPECTS

Chairmen: L. H. COHN (Boston)
D. FIGUERA (Madrid)

- 11:15 h. FUNCTIONAL STUDIES DURING MYOCARDIAL REVASCULARIZATION: THE INTERNAL MAMMARY ARTERY VERSUS VEIN BYPASS.
H. Meisner, W. Heimisch, E. Struck and S. Hagl (Munich).
- 11:30 h. WHAT IS THE OPTIMAL TIME FOR SURGERY IN ACUTE POST ACUTE MYOCARDIAL INFARCTION SEPTAL DEFECT.
D. Loisançe, Ph. Aubry and J. P. Cachera (Paris).
- 11:45 h. REDUCTION OF MYOCARDIAL INFARCT SIZE WITH LEFT VENTRICULAR ASSIST DEVICES.
J. Laas, C. D. Campbell, Y. Takanshi, R. Pick and R. L. Replogle (Chicago, Illinois).
- 12:00 h. A NEW MODEL OF VALVULAR HEART PROSTHESIS.
W. Ramos, M. Cid and E. de Miguel (Madrid).
- 12:15 h. VALVULAR NEOGENESIS FOLLOWING IMPLANTATION OF STEINLESS BIOLOGICAL VALVES.
G. Dureau, G. Kepenekian, J. Paul, J. Belleville and A. Tabib (Bron).

- 12:30 h. AUMENTATION OF PULMONARY BLOOD FLOW FOLLOWING RIGHT VENTRICULAR BYPASS.
R. M. Sade and J. P. Dearing (Charleston, South Caroline).
- 12:45 h. ELECTROPHYSIOLOGIC DISTURBANCES FOLLOWING MUSTARD'S AND SENNING'S OPERATION. A EXPERIMENTAL STUDY.
J. Márquez-Montes, F. O. O'Connor, A. Burgos and J. L. Castillo-Olivares (Madrid).

ROOM GERONA

SHOCK

Chairmen: T. V. KEAVENY (Dublin)
P. GARCIA BARRENO (Madrid)

- 14:30 h. CARDIAC OUTPUT DISTRIBUTION AND HEPATIC OXIGEN SUPPLY IN THE HYPERDYNAMIC STATE OF ENDOTOXIC SHOCK.
K. Sakoda, R. Schosser, H. Grafelmann and K. Messmer (Kagoshima-Munich).
- 14:45 h. RELATIONSHIPE OF UPTAKE VOLUME TO JGA RENIN ACTIVITY IN HAEMORRHAGIC SHOCK.
A. Schilling, H. Dahlheim, F. Jesch and U. Zirkelbach (Munich).
- 15:00 h. THE HEMODYNAMIC EFFICIENCY OF THE ELLIPSOID LEFT VENTRICULAR ASSIST DEVICE IN EXPERIMENTAL CARDIOGENIC SHOCK.
F. Eckersberger, U. Losert, F. Stellwag, K. Polzer, E. Wolner and J. Navratil (Viena).
- 15:15 h. LONG TERM ACTION OF DEXAMETHASONE ON THE INTRACRANIAL HYPERTENSION INDUCED BY VASOGENIC CEREBRAL EDEMA.
R. García de Sola, R. Carrillo, J. Cabezudo, J. A. Rodríguez-Montes and J. L. Castillo-Olivares (Madrid).
- 15:30 h. ENDOTOXIN EFFECT ON HOST DEFENSE IN BURNS.
S. Asko-Seljavaara, A. Alho, B. Sundell and T. Rytömaa (Helsinki)

- 15:45 h. NEW ASPECTS OF THE PATHOGENIC EFFECTIVENESS OF A CUTANEOUS BURN TOXIN AND THE RESULTING THERAPEUTIC POSSIBILITIES.
B. Kremer, M. Allgower, A. M. Scheidegger, K. H. Schmidt, J. Schoelmerich and G. A. Schoenenberger (Basel).

ROOM MONTJUIC

SURGICAL IMMUNOLOGY

Chairmen: OLSZEWSKI (Warsaw)
J. M. KREISLER (Madrid)

- 14:30 h. THE DISTRIBUTION OF INTRAPLEURAL AND INTRAVENOUS CORYNEBACTERIUM PARVUM IN HUMANS; STUDY WITH 99M 125 I- AND 131 I-LABELED C. PARVUM.
M. Kaufmann, J. Marqversen, J. Mouritzen and H. Hvid-Hansen (Aarhus).
- 14:45 h. TRANSPORT OF IMMUNOGLOBULINS AND COMPLEMENT FROM BLOOD TO INTERSTITIAL FLUID AND LYMPH IN NORMAL TISSUES.
W. Olszewski and A. Engeset (Warsaw-Oslo).
- 15:00 h. THE HUMAN IMMUNOLOGICAL RESPONSE TO MAJOR SURGERY.
M. Navarro, R. Lozano, J. C. Salinas, J. M. Revilla, R. Cornudella, M. Gutiérrez and A. Tres (Zaragoza).
- 15:15 h. PREVENTION OF CIRCULATORY DISORDERS DUE TO AN IMMUNE RESPONSE BY ENTERALLY APPLIED IMMUNOGEN.
J. Seifert, K. Hallfeld, G. Figacz and W. Brendel (Munich).
- 15:30 h. DELAYED HYPERSENSITIVITY RESPONSE AND INFECTIONS IN SURGICAL CANCER PATIENTS.
R. Dionigi, F. Gnes, A. Bonera, L. Dominioni and G. S. Fossa (Pavia).
- 15:45 h. MYCHOBACTERIUM LEPRAE (ML) AS MODEL TO FURTHER VERIFY THE IMMUNOLOGICAL CAPACITY OF HIBERNATING MAMMALS.
G. Galletti, P. Sinibaldi, C. Bellet and G. Cavicchi (Bologna).

ROOM LERIDA

MYOCARDIAL PROTECTION

Chairmen: J. P. CACHERA (Paris)
S. TAMAMES (Madrid)

- 14:30 h. LONG-TERM EFFECTS OF HYPERKALEMIC CARDIO-
PLEGIA AND LOCAL CARDIAC HYPOTHERMIA ON
GROSS AND MICROSCOPIC STRUCTURE OF THE LEFT
VENTRICLE.
L. Cohn, K. Myojin, R. Mee, M. Fishbein and R. Eldridge
(Boston).
- 14:45 h. PROTECTION OF THE HYPERTROPHIED HEART DURING
ISCHEMIC CARDIAC LONG TERM EXPERIMENTAL
STUDY OF MYOCARDIAL MORPHOLOGY AND FUNC-
TION.
W. H. Schraut, K. Kampman, J. J. Lamberti, M. Freeburger
and S. Glagov (Chicago, Illinois).
- 15:00 h. HAEMODYNAMIC BIOCHEMICAL AND MORPHOLO-
GICAL ASSESSMENT OF NORMOTHERMIC CARDIO-
PLEGIC MYOCARDIAL PROTECTION.
B. Walpoth, W. von Gossler, M. Fornaro, K. Schneider,
M. Chiesi, E. Carafolli and M. Turina (Zurich).
- 15:15 h. MYOCARDIAL PROTECTION DURING ISCHEMIC
CARDIAC ARREST: EFFECT OF CoQ¹⁰ ON MYOCARDIAL
FUNCTION.
H. Matsanuga, H. Matsumoto, T. Yoshitake, M. Saigusa and
K. Toda (Tokyo).
- 15:30 h. DISTRIBUTION OF MYOCARDIAL BLOOD FLOW (MBF)
IN THE EARLY STAGES OF CARDIAC HYPERTROPHY.
U. Mitmann, H. Keller, H. Schäfer, A. Schwierczenski and
K. L. Wagg (Heidelberg).
- 15:45 h. BLOOD FLOW IN CANINE MYOCARDIUM DURING AND
AFTER CORONARY LAD BRANCH LIGATION.
W. Isselhard, B. Schorn, U. Uekermann, F. Ghussen, W. Eller-
beck and C. P. Welte (Köln).

ROOM GERONA

SURGICAL MONITORING

Chairmen: J. MARESCAUX (Strasbourg)
F. BACCI (Palma Mallorca)

- 16:30 h. INTRA AND POSTOPERATIVE MONITORING — A NEW
NEW TECHNIQUE.
C. J. Knight and J. Beleguer (Geneve).
- 16:45 h. ANALOG SIGNAL ANALYZER FOR THE STUDY OF
PERCENTAGE TIME INTRACRANIAL PRESSURE.
R. García de Sola, C. Hernández, J. Méndez, J. M. González
and J. L. Castillo-Olivares (Madrid).
- 17:00 h. SKIN ELECTRODES RECORDING IN POSTOPERATIVE
ILEUS.
J. Murat, J. Leroy, Moline, C. Gaultier and A. Martin (Tours).
- 17:15 h. CHRONIC MULTICHANNEL TELEMETRY OF INTESTINAL
MOTILITY.
F. Crenner, A. Lambert, F. Angel, P. Sava, J. C. Schang and
J. F. Grenier (Strasbourg-Hautepierre).
- 17:30 h. TELEMETERED CARDIAC CATHETERIZATION DURING
TREADMILL TEST EXPERIMENTAL AND CLINICAL
STUDIES ABOUT CARDIAC RESERVE.
N. Furuta, H. Matsumoto and H. Matsanuga (Tokyo).

ROOM LERIDA

BILIARY TRACT

Chairmen: S. BENGMARK (Lund)
L. TORRE (Barcelona)

- 16:30 h. INFLUENCE OF BILE ACID METABOLISM ON BILIARY
EXCRETION OF ANTIBIOTICS.
T. Shimizu, O. Sekine, Y. Usuda, N. Aoki, K. Watanabe,
H. Kawaguchi and K. Yoshida (Niigata).
- 16:45 h. BACTERIOLOGY AND BILE ACIDS IN CONTINENT ILEO-
STOMY.
A. Palmu, E. Valkamo, I. Seppälä and T. A. Miettinen (Helsinki).

- 17:00 h. CHOLEDOCHAL PRESSURE PROFILOMETRY FOLLOWING DILATATION, SPHINCTEROTOMY, SPHINCTEROPLASTY AND DIATHERMIC SPHINCTEROTOMY.
E. Bruijnes and P. J. Klopper (Amsterdam).
- 17:15 h. BIOLOGICAL INTEGRATION OF SUTURE MATERIALS AND COMMON BILE DUCT RESPONSE IN GROWING PIGS.
G. Ussia, F. Bertoni, C. Martelli, P. Bacchini, C. Bellet and G. Galletti (Bologna).
- 17:30 h. THE EFFECT OF VARIOUS INCISIONS FOR CHOLECYSTECTOMY ON THE SERUM VALUES OF CREATINE PHOSPHOKINASE (CPK) AND MYOGLOBINE.
N. O'Hoggins, P. M. Naughton and J. Duffy (Dublin).

ROOM MONTJUIC

Film Session I MICROSURGERY

Chairman: R. VILA (Barcelona)

- 16:30 h. TECHNIQUE IN VASCULAR MICROSURGERY
R. Vila, C. del Cacho, F. Fullana.
- 17:00 h. LOWER EXTREMITY REINPLANTATION. TECHNIQUES IN DOGS.
Alvarez, Torriente, F. Miranda, Guerrero, Brandau, López-Durán.
- 17:30 h. MICROSURGERY. TECHNIQUES IN URETERO-URETEROSTOMY.
J. M. Gil-Vernet.

TUESDAY May 8

ROOM LERIDA

- 09:00 h. OFFICIAL LECTURE: **LIVER REGENERATION**
by guest lecturer CARROLL
M. LEEVY (New Jersey)
- 09:30 h. OFFICIAL LECTURE: **LIVER TRANSPLANT**
by guest lecturer T. E. STARZL
(Denver, Colorado)

LIVER FAILURE

Chairmen: L. LAMBOTTE (Brussels)
J. GUARDIA (Barcelona)

- 10:00 h. ROLE OF PORTAL INSULINE IN INITIATING MITOCHONDRIAL ENHANCEMENT AND ITS RELATION TO HEPATIC FUNCTIONAL RESERVE AND REGENERATION.
H. Takeda, T. Nakatani, T. Yamato, K. Ngala, K. Ozawa and T. Tobe (Kyoto-Leuven).
- 10:15 h. ESSENTIAL ROLE OF ENERGY CHARGE AND MITOCHONDRIAL FUNCTION IN HEPATIC INSUFFICIENCY.
M. Asano, Y. Kohno, M. Ukikusa, K. Ngala, K. Ozawa and T. Tobe (Kyoto-Leuven).
- 13:30 h. ACUTE HEPATIC EXPERIMENTAL FAILURE: EFFECT OF BRANCHED CHAIN AMINOACIDS INFUSION ON PLASMA AND LIQUOR AMINOACIDS.
F. S. Dioguardi, M. Bernardi, G. Solaini, A. Mazziotti, V. Papa, F. Miglio and G. Gasbarrini (Bologna).
- 10:45 h. CHANGES OF AMINO-ACIDS AND GASTROINTESTINAL HORMONES IN ACUTE LIVER FAILURE. AN EXPERIMENTAL STUDY IN THE PIG.
Th. Wustrow, S. von Sommoggy and M. Fischer (Munich).

ROOM GERONA

VESSELS

Chairmen: H. DARDIK (New Jersey)
R. C. SOBREGRAU (Barcelona)

- 09:00 h. BIO-MECHANICAL RESEARCH ON HUMAN ARTERIAL WALLS IN ADVANCED ARTERIOSCLEROSIS.
P. Kujath, H. P. Bruch, E. Schmitt, R. Laven and A. Rothammer (Würzburg).
- 09:15 h. INTRINSIC CONTRACTILITY OF HUMAN LYMPHATICS IS THE MAIN FACTOR PROPELLING LYMPH.
W. L. Olszewski and A. Engeset (Warsaw-Oslo).
- 09:30 h. WHOLE BLOOD VISCOSITY AND RED CELL DEFORMABILITY IN RAYNAUD'S PHENOMENON — THEIR RESPONSE TO PLASMA EXCHANGE.
M. J. G. O'Reilly, A. Dodds, J. Dormandy and L. T. Cotton (London).
- 09:45 h. EXPERIENCE WITH GLUTARALDEHYDE-STABILIZED UMBILICAL VEIN FOR LIMB SALVAGE.
H. Dardik, I. M. Ibrahim, M. Jarrah, B. Sussman and I. Dardik (New Jersey).
- 10:00 h. DEVELOPMENT OF AN ARTERIAL PROSTHESIS FOR BYPASS BELOW THE KNEE, BASED ON EXPERIMENTAL STUDIES OF SMALL-CALIBRE GRAFTS.
A. A. B. Barros D'Sa, L. R. Sauvage, M. W. Walker, K. Berger, S. B. Robel and S. G. Yates (Seattle, Washington).
- 10:15 h. THE EFFECT OF ADRENERGIC BLOCKADE ON CENTRAL HEMODYNAMICS AND MUSCLE METABOLISM DURING INDUCED INCOMPLETE ISCHEMIA IN MAN.
P. Neglén, B. Eklöf, M. Sjöström and D. Thomson (Lund-Umea).
- 10:30 h. LARGE VOLUME PREPARATION OF PYRIDOXALATED STROMA-FREE HEMOGLOBIN WITH HIGH IN VIVO P₅₀.
L. R. Sehgal, A. Rosen, G. Noud, S. Gould, H. Sehgal (Chicago, Ill.).

ROOM MONTJUIC

ONCOLOGY

Chairmen: O. BOECKL (Hallein)
A. SITGES (Barcelona)

- 09:00 h. COMBINED MODALITY THERAPY FOR LOCALIZED HIGH-GRADE SOFT TISSUE SARCOMAS.
R. E. Wilson, R. H. Blum, J. S. Greenberger and J. M. Corson (Boston, Massachusetts).
- 09:15 h. PREOPERATIVE ⁹⁹Tc^m-ANTIMONY SULPHIDE COLLOID SCIENTIGRAPHY FOR IDENTIFICATION OF THE LYMPH DRAINAGE IN PATIENTS WITH MALIGNANT MELANOMA.
P.-E. Jönsson, S.-E. Strand, S. Dawiskiba, L. Hafström and B. Persson (Lund).
- 09:30 h. INFLUENCE OF SPLEEN ON TUMOR GROWTH IN MICE WITH DIFFERENT SPLEEN SIZE.
H. v. Wallenberg, P. Mainusch, J. Meyer and C. Hammer (Munich).
- 09:45 h. HISTOLOGICAL DIAGNOSIS OF MAMMARY TUMORS BY A NEW NEEDLE BIOPSY APPARATUS IN OUTPATIENTS STATE.
K. Ikeda, S. Nakajima, T. Atsuta, Y. Kubo, N. Samejima and H. Ikeda (Asahikawa).
- 10:00 h. DIVERGENT EFFECTS OF ENTERIC BYPASS, ENTERECTOMY AND COLECTOMY ON AZOXYMETHANE-INDUCED CARCINOGENESIS.
F. L. R. Bauer, R. C. N. Williamson, J. S. Ross and R. A. Malt (Rotterdam-Boston).
- 10:50 h. CERVICAL ESOPHAGOPLASTY WITH FREE GRAFTS REVASCULARIZED BY MICRO SUTURE. A COMPARATIVE STUDY.
M. Germain, C. Gremillet, G. Lesec, C. Avcı and X. da Cunha (Paris).
- 10:30 h. COMPLICATIONS OF LAPAROTOMY DUE TO HODGKIN'S DISEASE. RETROSPECTIVE STUDY IN 200 CASES.
J. Barreiro, J. Abascal, J. Ardaiz and J. Inchausti (Madrid).

ROOM LERIDA

LIVER FAILURE

Chairmen: R. J. ADAMSONS (New York)
R. BACARDI (Barcelona)

- 11:30 h. PLASMA AND CEREBROSPINAL FLUID (csf) AMINOACID PATTERN IN EXPERIMENTAL ACUTE HEPATIC COMA.
A. Cavallari, A. Mazziotti, F. S. Dioguardi, L. Antonini, G. Solaini, G. Ussia, G. Galletti and L. Possati (Bologna).
- 11:45 h. BENEFICIAL EFFECT OF ATP-MgCl₂ ON SURVIVAL, VARIOUS HEPATIC AND RETICULOENDOTHELIAL FUNCTION FOLLOWING HEPATIC ISCHEMIA IN DOGS.
M. Ohkawa, M. Odaka, H. Hirasawa, K. Soeda and H. Sato (Chiba).
- 12:00 h. EFFECT OF PHENOBARBITAL ON RESPIRATORY CONTROL RATE AND ENZYME INDUCTION DURING HEPATIC REGENERATION.
J. Ngala and L. Lambotte (Brussels).
- 12:15 h. PORTACAVAL SHUNT AND ADDITIONAL LIVER ARTERIALIZATION IN HEALTHY AND CIRRHOTIC RATS.
A. Hirner, R. Häring and I. Roots (Berlin).
- 12:30 h. IMMEDIATE MODIFICATION OF LIVER FUNCTION AFTER PORTO-CAVAL SHUNT AND ARTERIALIZATION.
B. de Hemptinne, M. de Mello, Th. Ballet, L. Lambotte and J. B. Otte (Brussels).
- 12:45 h. PORTACAVAL SHUNT WITH ARTERIALIZATION OF THE LIVER IN PATIENTS WITH PORTAL HYPERTENSION.
R. J. Adamsons, K. Butt, S. Arif, S. Minkowitz, S. Iyer, J. DeRose and M. Ortega-gaytan (New York).

ROOM GERONA

TRANSPLANTATION

Chairmen: K. MESSMER (Munich)

E. HERRERA (Madrid)

- 11:30 h. CHANGES IN PLASMA LEVELS OF AMINO ACIDS DURING LIVER TRANSPLANTATION IN THE PIG.
R. Martín del Río, R. Camprodón, C. G. Mendoza, J. Solsona and E. Herrera (Barcelona-Madrid).
- 11:45 h. FUNCTION OF AN ECTOPIC LIVER RECOMPOSED FROM TRANSPLANTED HEPATOCYTES IN THE SPLEEN.
M. Mito, H. Ebata, M. Kusano, T. Ohnishi and T. Saito (Asahikawa).
- 12:00 h. COMPARISON OF MICROCIRCULATORY DISTURBANCES IN ORTHOTOPIC AND HETEROTOPIC RAT LIVER TRANSPLANTS.
B. Ringe, Ch. E. Broelsch, J. Hoepfer and M. Kessler (Dortmund).
- 12:15 h. SUCCESSFUL ORTHOTOPIC RAT LIVER TRANSPLANTATION AFTER 20-22 HOURS GRAFT PRESERVATION USING FLUOROCARBON EMULSION.
N. Kmada and R. Y. Calne (Cambridge).
- 12:30 h. XENOGENEIC EMBRYONIC PANCREATIC TRANSPLANTS IN THE REVERSAL OF EXPERIMENTAL DIABETES IN RATS.
R. Eloy, K. Haffen, M. Keding, P. Bouchet and J. F. Grenier (Strasbourg).
- 12:45 h. TRANSPLANTATION OF HUMAN PARATHYROID TUMORS IN NUDE MICE. AN EXPERIMENTAL MODEL FOR HYPERPARATHYROIDISM.
I. Klema, U. Steinau, H. Minne, G. Bastert, K. H. Usadel, H. P. Fortemeyer and S. Pomer (Frankfurt/Main).

ROOM MONTJUIC

Film Session II UROLOGY

Chairman: F. SOLE BALCELLS (Barcelona)

- 11:30 h. INTRA- AND EXTRACORPOREAL TUMOUR SURGERY FOR BILATERAL RENAL CARCINOMA
Th. Erdmann, A. Gold, R. Templin, H. Seiter, B. Seemann.
- 12:00 h. EXTRACORPOREAL RENAL TUMOUR SURGERY
Th. Erdmann, A. Gold, R. Templin, H. Seiter, B. Seemann.
- 12:30 h. EXTRACORPORAL RENAL SURGERY. A VASCULAR INDICATION.
J. M. Gil-Vernet.
- 13:00 h. TRANSANAL SPHINCTERIC ACCES IN THE SURGICAL TREATMENT OF RECTO-URETHRAL FISTULA.
F. Solé Balcells.

ROOM LERIDA

PORTAL HYPERTENSION

Chairmen: I. TAYLOR (Liverpool)
R. TRIAS (Barcelona)

- 14:30 h. HEMODYNAMICS AND LOCAL OXYGEN TENSION OF THE RAT LIVER FOLLOWING VARIOUS PORTASYSTEMIC SHUNTING PROCEDURES.
Ch. E. Broelsch, M. Gruen, W. Androejewsky and M. Kessler (Dortmund).
- 14:45 h. THE IMPORTANCE OF VENOUS PANCREATIC FLOW TO THE LIVER IN THE PORTASYSTEMIC DERIVATIONS.
E. García-Romero, F. Navarro, J. Alonso and I. M. Arcelus (Granada).
- 15:00 h. GLUCAGON HYPERSECRETION IN PATIENTS WITH DIABETES AND PORTO-CAVAL ANASTOMOSIS.
V. Ziparo, F. Fallucca, A. Thau, L. Giangrande, M. Lombardi and S. Stipa (Roma).

- 15:15 h. IS THE CLEARANCE OF XENON-133 A SUITABLE
TECHNIQUE FOR LIVER BLOOD FLOW MEASURE-
MENTS IN PORTAL HYPERTENSION?
J. Thorne, R. Bennett, J. Jhonson, R. Shields and I. Taylor
(Liverpool).
- 15:30 h. BRAIN PROTEINS IN EXPERIMENTAL PORTAL-SYSTEMIC
SHUNTING.
T. Holmin, B. Hindfelt and J.-E. Olsson (Lund).

ROOM GERONA

SURGICAL PATHOPHYSIOLOGY

Chairmen: W. BRENDEL (Munich)
R. VARA (Granada)

- 14:30 h. CHEMOTACTIC SUBSTANCES IN THE TREATMENT OF
EXPERIMENTAL PERITONITIS.
T. Hau, L. D. Joyce, R. C. Lillehei and R. L. Simmons
(Chicago, Illinois).
- 14:45 h. PROTON MAGNETIC RELAXATION FOR TISSUES IN
RELATION TO TIME AND TEMPERATURE.
A. Baczkowski, C. J. Lewa, S. Letowski and Z. B. Gruca
(Gdansk).
- 15:00 h. ORIGIN OF PHLEBOTHROMBOSIS POSTOPERATIVELY
ANALYSIS AND REEXAMINATION OF 95 PHLEBOGRAMS
AFTER HIP ARTHROPLASTY.
K. Westermann and J. Mellmann (Hannover).
- 15:15 h. PROGNOSIS VALUE OF THE MODIFICATION IN THE
ACTIVITY OF SOME ENZYMES IN BRAIN INJURY.
O. I. Morales, M. Ruiz and R. Vara (Granada).
- 15:30 h. CONTACT FREE RENAL STONE DESTRUCTION BY
MEANS OF SHOCK WAVES
Ch. Chaussy, E. Schmiedt, B. Forssmann and W. Brendel
(Munich).
- 15:45 h. SELF PUMPING URETERAL PROSTHESIS.
C. Abbou, P. Rey and J. Leandri (Creteil).

ROOM MONTJUIC

Film Session III GASTROINTESTINAL

Chairman: C. PERA (Barcelona)

- 14:30 h. OESOPHAGEAL RECONSTRUCTION BY A ONE STAGE COLONIC TRANSFER WITH MICROVASCULAR ANASTOMOSES.
M. Germain, C. Gremillet, R. Wolfe.
- 15:00 h. EXPERIMENTAL INVESTIGATION ON THE PRECIPITATION OF BILE SLUDGE IN COMMON T TUBES, AND ITS CLINICAL APPLICATION IN PERMANENT DISCONGESTION OF THE BILE PASSAGES.
B. Golematis, A. Georgakakis, C. Antonopoulos, J. Melissas.
- 15:30 h. RECONSTRUCTION OF THE CERVICAL OESOPHAGUS BY A FREE JEJUNAL LOOP.
M. Germain, C. Gremillet.
- 16:00 h. NEW METHOD OF GASTRIC REPLACEMENT FOLLOWING TOTAL GASTRECTOMY.
G. Kieninger, K. J. Wolf, L. Kolowski, D. Kummer.

ROOM LERIDA

- 16:30 h. **GENERAL ASSEMBLY**
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WEDNESDAY May 9

ROOM LERIDA

ARTIFICIAL CIRCULATION

Chairmen: R. SADE (Boston)
R. BENICHOX (Nancy)

- 09:00 h. SYSTEM AND TISSUE OXYGEN SUPPLY UNDER MODERATE AND EXTREME HEMODILUTION DURING CORONARY BYPASS SURGERY.
J. Niinikoski, V. Laaksonen, O. Meretoja, J. Jalonen and M. V. Inberg (Turku).
- 09:15 h. PROTEOLYSIS UNDER EXTRACORPOREAL CIRCULATION (ECC).
D. Birnbaum, H. Siegert, J. Billich and E. S. Bücherl (Berlin).
- 09:30 h. PLATELET PRESERVATION DURING CARDIOPULMONARY BYPASS (CPB) WITH PROSTAGLANDINS (PG).
J. J. A. M. van den Dungen, J. C. F. de Jong and Ch. R. H. Wildevuur (Groningen).
- 09:45 h. TREATMENT OF ACUTE LEFT HEART FAILURE USING DOBUTAMINE AND INTRAAORTIC COUNTERPULSATION; ANIMAL EXPERIMENTS AND FIRSTS CLINICAL EXPERIENCES.
B. Reichart, R. Türk, B. Kemkes, E. Atl and J. Holts (Munich).
- 10:00 h. PROLONGED LEFT HEART BYPASS IN OPEN HEART SURGERY.
M. Deutsch, K. Polzer, H. Thoma, E. Wolner, U. Nosertl and J. Navratil (Vienna).
- 15:15 h. TISSUE PERFUSION (pO_2 HISTOGRAMS) IN EXTRACORPOREAL CIRCULATION (ECC) USING BUBBLE (BO) OR MEMBRANE OXYGENATORS (MO).
R. L. Pranger, J. M. Elstrodt, P. H. Mook, D. W. Lübbers and Ch. R. H. Wildevuur (Groningen).
- 10:30 h. COMPARATIVE EXPERIMENTAL STUDY OF PULSATILE PUMPS FOR EXTRACORPOREAL CIRCULATION.
J. Belenger, J. P. Brugger, C. J. Knight and L. Sprovieri (Geneve).

ROOM GERONA

G. I. PATHOPHYSIOLOGY

Chairmen: T. R. DeMEESTER (Chicago)

J. L. BALIBREA (Barcelona)

- 09:00 h. ANTI-STRESS ULCER EFFECT OF CIMETIDINE (CT) IN RATS AS EVALUATED BY GASTRIC SECRETION AND MICROCIRCULATION.
J. Hemmer, P. O. Schwille and W. Hofmann (Erlangen).
- 09:15 h. EXPERIMENTAL REFLUX ESOPHAGITIS IN THE RAT.
S. E. Kranendonk, D. L. Westbroek, H. Obertop, F. J. W. ten Cate and H. van Houten (Rotterdam).
- 09:30 h. EFFECT OF BILE SALTS AND RELATED COMPOUNDS ON ISOLATED ESOPHAGEAL MUCOSA.
E. Kivilaasko, D. Fromm and W. Silen (Helsinki-Boston).
- 09:45 h. COMPARISON OF CLINICAL TESTS FOR DETECTION OF GASTROESOPHAGEAL REFLUX.
T. R. DeMeester, Ching I Wang, L. Johnson and D. B. Skinner (Chicago).
- 10:00 h. LONGTERM EFFECTS OF VAGOTOMY ON GASTRIC ACID SECRETION IN THE RAT.
S. Vallgren, R. Hakansson, J. Hedenbro, G. Liedberg and F. Sundler (Lund).
- 10:15 h. COMPARISON OF THE ENDOSCOPIC AND HISTOLOGICAL APPEARANCES OF DUODENITIS.
S. N. Joffe, A. W. Forrester and F. D. Lee (Glasgow).
- 10:30 h. SECRETION OF GASTRIN FROM THE ISOLATED PERFUSED CANINE STOMACH.
E. García-Romero, J. Llorens, M. Serrano, A. Tortosa and I. M. Arcelus (Granada).
- 10:45 h. GASTRIC MUCOSAL ENERGY METABOLISM IN ULCUS-STRESS.
J. L. Balibrea, M. Canela, J. A. Salva, M. Puig, S. Schwartz and M. Rull (Barcelona).
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ROOM TIBIDABO

TRANPLANTATION. IMMUNOLOGY

Chairmen: D. L. WESTBROEK (Rotterdam)
G. ALSINA (Barcelona)

- 09:00 h. ACTIVE ENHANCEMENT OF RAT CARDIAC ALLOGRAFTS: REQUIREMENT OF LD IMMUNOGENS.
W. Lauchart, B. J. Alkins, J. F. Mowbray and D. A. L. Davies (London).
- 09:15 h. ENHANCEMENT OF THE SKIN ALLOGRAFTS IN RATS ACROSS THE MAJOR AgB LOCUS.
B. A. Wasowska, W. A. Rowinski, S. M. Stepowski, T. J. Ryffa and W. L. Olszewski (Warsaw).
- 09:30 h. MIGRATION OF THE LYMPHOID CELLS FROM THE ORTHOTOPIC AND HETEROTOPIC TRANSPLANT OF THE SPLEEN.
S. M. Stepowski and W. L. Olszewski (Warsaw).
- 09:45 h. HISTOCOMPATIBILITY MATCHING AND RENAL ALLOGRAFTS SURVIVAL IN IMMUNOSUPPRESSED DOGS.
A. B. Bijnen, H. Obertop, H. M. Vriesendorp and D. L. Westbroek (Rotterdam).
- 10:00 h. CLINICAL SIGNIFICANCE OF IMMUNOLOGICAL PARAMETERS FOR THE SURVIVAL-TIME OF KIDNEY GRAFTS UNDER IMMUNOSUPPRESSIVE (IS—) TREATMENT.
C. Hammer, W. Bullinger, W. Land and W. Brendel (Munich).
- 10:15 h. SELECTIVE LYMPHOID DESTRUCTION AND CARDIAC ALLOGRAFT SURVIVAL.
M. A. Hardy, R. Fawaz, S. Oluwole, R. Nowygrod and K. Reemtsma (New York).

ROOM MONTJUIC

Film Session IV

UROLOGY. TRANSPLANT

Chairmen: A. CARALPS (Barcelona)

- 09:00 h. ORTOTHOPIC KIDNEY TRANSPLANT. NEW TECHNIQUE.
J. M. Gil-Vernet, A. Caralps.
- 09:30 h. HETEROTHOPIC KIDNEY TRANSPLANT. NEW TECHNIQUE.
J. M. Gil-Vernet, A. Caralps.
- 10:00 h. KIDNEY PRESERVATION.
B. Seemann, R. Templin, H. Seiter, H. Kampehl, U. Pietruschka, Th. Erdmann, H.-R. Nagel, R. John, U. Schmidt.
- 10:30 h. TESTICLE TRANSPLANT IN MAN
J. M. Gil-Vernet, A. Caralps.

ROOM GERONA

WOUND HEALING

Chairmen: G. GALLETTI (Bologna)
A. DIEZ CASCON (Barcelona)

- 11:30 h. JAUNDICE AND WOUND HEALING: AN EXPERIMENTAL STUDY IN RATS.
J. P. Arnaud, R. Eloy, W. Humbert and M. Adloff (Strasbourg)
- 11:45 h. EFFECT OF DIFFERENT SUTURE MATERIALS ON EVOLUTION OF COLONIC ANASTOMOSIS IN RATS.
J. V. González-Bethencourt, F. González-Hermoso, N. Boada, M. Feria and F. Cáceres (Santa Cruz de Tenerife).
- 12:00 h. EFFECT OF DENERVATION ON TIBIAL FRACTURE HEALING IN THE RAT.
H. Aro, E. Erola, A. J. Aho and R. Penttinen (Turku).
- 12:15 h. NEW METHOD OF STOPPING THE PARENCHIMATOUS WOUND.
B. Petrowsky, V. S. Gigauri, O. B. Milonov and M. I. Perelman (Moscow).
- 12:30 h. BASICAL CONSIDERATIONS AND THEORETICAL BACKGROUND OF FIBRIN SEALING.
H. Redl, T. Seelich, J. Guttman, H. Dinges, G. Schlag, H. Kuderna and H. Stachelberger (Vienna).

- 12:45 h. THE REPAIR OF SEVERED PERIPHERAL NERVES BY MEANS OF A FIBRIN SEAL. CLINICAL EXPERIENCES AND RESULTS.
H. Kuderna, H. Redl and H. Dinges (Vienna).

ROOM LERIDA

PANCREAS

Chairmen: M. LEMPINEN (Helsinki)
J. PUIG LA CALLE (Barcelona)

- 11:30 h. CONTRIBUTION TO THE ETIOPATHOGENIC STUDY OF THE EXPERIMENTAL ACUTE PANCREOPATHY IN THE DOG.
F. A. García-Gil, J. Usón, A. Val-Carreres, A. Jiménez, E. Esteban and M. Rubio (Zaragoza).
- 11:45 h. PROSTAGLANDINS AND PANCREATIC BLOOD FLOW.
L. A. Donaldson, W. G. Schenk and S. N. Joffe (Glasgow-Buffalo).
- 12:00 h. PANCREATIC RESECTION IN ACUTE FULMINANT PANCREATITIS.
M. Lempinen, E. Kivilaasko, T. V. Kalima and M. Turunen (Helsinki).
- 12:15 h. THE EFFECT OF PERORAL GLUCOSE AND INSULIN HYPOGLICEMIA ON PLASMA IMMUNOREACTIVE SECRETIN (IRS) AFTER TOTAL PANCREATECTOMY.
S. Aune, L. E. Hanssen and R. Karesen (Oslo).
- 12:30 h. SURGICAL APPLICATION OF AN ARTIFICIAL PANCREAS.
L. Lambotte, M. Reynaert, J. B. Otte, D. Moulin, B. Gribo-mont, J. Rahier, A. E. Lambert, M. Buysschaert and P. J. Kestens (Brussels).

ROOM MONTJUIC

Film Session V

PORTAL HYPERTENSION

Chairmen: A. HIRNER (Germany)

- 11:30 h. NEW ROUTE OF APPROACH FOR ARTERIAL AND VENOUS SPLENO-RENAL ANASTOMOSES.
J. M. Gil-Vernet, A. Caralps.
- 12:00 h. THE PORTOCAVAL ANASTOMOSES IN RATS. INTRA-OPERATIVE PROCEDURE.
A. Hirner, R. Häring.
- 12:30 h. PORTOCAVAL ANASTOMOSES AND ARTERIALIZATION IN THE RAT. AN EXPERIMENTAL STUDY.
A. Hirner, R. Häring.

ROOM TIBIDABO

- 13:00 h. FUNDATIONAL ACT OF THE «SOCIEDAD ESPAÑOLA DE INVESTIGACIONES QUIRURGICAS».

ROOM GERONA

HEART TRANSPLANT

Chairmen: N. MENDLER (Munich)
R. LOZANO (Zaragoza)

- 14:30 h. HOW CARDIAC TRANSPLANTATION PROLONG LIFE AND IMPROVE ITS QUALITY.
J. Rottembourg, A. Cabrol, M. F. Mattei, I. Gandjbakhch, G. Guiraudon and C. Cabrol (Paris).
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- 14:45 h. MYOCARDIAL NUTRIENT FLOW IN CANINE HEART TRANSPLANTS AFTER PRESERVATION FOR 24 HOURS.
N. Mendler, S. Wieshammer, K. Gebhardt, D. Schmid and F. Sebening (Munich).
- 15:00 h. THE PARALLEL TRANSPLANTED HEART CAN ASSIST THE RECIPIENT'S HEART? SOME EXPERIMENTAL OBSERVATIONS.
E. G. Arealis, S. S. Raphael and P. A. Kousouris (Alexandroupolis).
- 15:15 h. OPEN THROMBECTOMY FROM THE LEFT ATRIUM 28 DAYS AFTER TOTAL ARTIFICIAL HEART REPLACEMENT (A CASE REPORT).
F. Eckersberger, U. Losert, F. Stellwag, F. Unger, R. Weisskirchner and E. Wolner (Vienna).
- 15:30 h. LUNG SURFACTANT CHANGES IN TOTAL ARTIFICIAL HEART RECIPIENTS REGARDING THE BLOOD COMPATIBILITY.
U. Losert, F. Unger, G. Salzer, F. Eckersberger, W. Mohl (Vienna).
- 15:45 h. TOTAL ARTIFICIAL HEART: HEMODYNAMIC EVALUATION AND RESULTS FROM IMPLANTATION IN CALVES.
M. Dostal, J. Vasku, J. Cerny, P. Hanzelka, P. Guba, E. Urbanek, T. Sladek, B. Hartmannova and J. Vasku (Brno).

ROOM LERIDA

SMALL BOWEL

Chairmen: S. N. JOFFE (Glasgow)
P. PARRILLA (Murcia)

- 14:30 h. SMALL BOWEL TRANSPORT AS STUDIED BY INTRAVENOUS ADMINISTRATION OF BILE-EXCRETED ⁹⁹RCm-HIDA.
S. Gustavsson, B. Jung and T. Wilén (Uppsala).
- 14:45 h. A NEW SURGICAL TECHNIQUE FOR THE TREATMENT OF THE SHORT INTESTINE SYNDROME.
M. Diego, C. Lucea, G. Salgado, J. L. Martínez, E. de Miguel (Madrid).

- 15:00 h. RELATIONS BETWEEN LONGITUDINAL AND CIRCULAR MECHANICAL ACTIVITY OF SMALL BOWEL AND THEIR CORRELATIONS WITH ELECTRICAL ACTIVITY. COMPARATIVE STUDY IN DOG AND MAN.
P. Sava, A. Lambert, F. Angel, F. Crenner, P. Bouchet and J. F. Grenier (Strasbourg-Hauterierre).
- 15:15 h. EXPERIMENTAL INTESTINAL VALVE IN DOGS: TECNIC AND RESULTATS.
G. A. López-Pérez, C. Miguelez and A. Unda (Málaga).
- 15:30 h. MULTIPLE EXTRAMUCOSAL MYOTOMY AND ITS COMPLICATIONS.
A. Díez Cascón, S. Gómez Conde, J. Pie and V. Zanon (Barcelona).

ROOM TIBIDABO

INTENSIVE CARE

Chairmen: E. J. HADJIYANNAKIS (Athens)
F. BADOSA (Barcelona)

- 14:30 h. NON-TRAUMATIC AND CONTINUOUS OXYGEN MONITORING BY A NEW FINGER TIP OXYMETER.
S. Nakajima, K. Takeuchi, Y. Nishioka, M. Tamura, Y. Kubo, N. Samejima, T. Sasajima (Asahikawa).
- 14:45 h. A FLOW-THROUGH ONCOMETER SYSTEM FOR WHOLE BLOOD IN EXPERIMENTAL USE.
U. Pfeiffer, W. Kohler, M. Birk and G. Blümel (Munich).
- 15:00 h. HIGH CALORIC PARENTERAL NUTRITION IN INTENSIVE CARE MEDICINE-GLUCOSE, CARBOHYDRATE MIXTURE OR AMINO ACIDS?
W. Peitsch and H. Grunert (Goettingen).
- 15:15 h. REDUCTIONS IN COLLOID OSMOTIC PRESSURE ASSOCIATED WITH ADULT RESPIRATORY DISTRESS SYNDROME.
S. Nakajima, K. Takeuchi, T. Atsuta, Y. Kubo, N. Samejima and Y. Kakiuchi (Asahikawa).

15:30 h. ALTERATIONS IN ALVEOLAR ARTERIAL O₂ DIFFERENCE RESULTING FROM THROMBIN INDUCED INTRAVASCULAR COAGULATION (DIC) (THE VALUE OF THE USE OF PEEP).

E. Kourias, G. Androulakis, E. Tzorakoleftherakis and C. Tountas (Athens).

15:45 h. MUCOSAL LESIONS IN THE SMALL INTESTINE IN SEPTIC STATES.

U. Haglund, A. Falk, B. Kaiser, H. Myrvold and O. Lundgren (Göteborg).

POSTER SESSION

- 1 ABDOMINO-CERVICAL APPROACH FOR ESOPHAGECTOMY WITHOUT THORACOTOMY
R. Trias, R. Salvador, J. Isern, F. Lluís, J. Ramírez
- 2 THE REPLACEMENT OF THE PROXIMAL PART OF THE ESOPHAGUS BY A FREE JEJUNUM INTERPONATE CARRIED OUT WITH MICROSURGICAL TECHNIQUE
B. Ultsch, G. Blümel, H. Schoeneich, Th. Holzmann, I. Wriedt-Lübbe, H.-M. Fritsche, U. Neumann
- 3 ENDOSCOPIC APPLICATION OF THE ENDOESOPHAGEAL PROTHESIS: PRESENTATION OF A SIMPLE AND NEW INSTRUMENT AND COMPARISON WITH SURGICAL METHOD
A. Cusumano, A. Simmini, E. Ancona
- 4 AUTOTRANSPLANTATION OF INTESTINAL SEGMENTS TO REPLACE THE THORACIC ESOPHAGUS. AN EXPERIMENTAL STUDY
J. D. Meeuwis, J. C. Molenaar, D. L. Westbroek
- 5 EFFECTS OF CIMETIDINE ON THE STRESS GASTRIC ULCER OF THE RAT
D. Benichoux, M. Raynov, D. Baptiste, J. Floquet, R. Benichoux
- 6 A TECHNIQUE OF PHRENOPLASTY
N. Hernández González, García Miranda, A. Soriano Benítez de Lugo, González Hermoso
- 7 THE CONTINENT COLOSTOMY. CLINICAL EXPERIENCES
E. Schmidt, H.-P. Bruch, P. Kujath, A. Rothhammer
- 8 HEALING OF ANASTOMOSES IN OBSTRUCTED RAT COLON A MACROSCOPIC AND ANGIOGRAPHIC STUDY
D. J. Leaper, H. Ellis
- 9 RECORDING AND OFF-LINE PROCESSING OF RECTOSIGMOID MYOELECTRIC ACTIVITY
J. A. A. Archbold, T. G. Parks, A. E. Walbridge
- 10 SMALL BOWEL TRANSPORT AFTER INTERPOSITION OF AN ANTIPERISTALTIC JEJUNAL SEGMENT IN THE RAT
S. Gustavsson

- 11 ATTEMPT TO DELAY ALIMENTARY TRANSIT AFTER SMALL BOWEL RESECTION ON THE DOG
J. A. Rodríguez Montes, A. Murillo, I. Arcelus
- 12 PERFORMING INTESTINAL ANASTOMOSES AND END-ENTEROSTOMIES USING A CIRCULAR STAPLING DEVICE
R. Krause, H. R. Freund, J. M. Greep, J. E. Fischer
- 13 SKIN ELECTROGASTROENTEROGRAPHY. A CLINICAL APPROACH
A. Martín, J. Moliné, J. Murat
- 14 DETERMINATION OF THE VIABILITY OF SMALL INTESTINE
J. Kiss, I. Miko, I. Furka
- 15 HAEMATOLOGICAL VARIATIONS IN SMALL BOWEL RE-SECTED WITH COLON INTERPOSED RATS
X. Rius, J. Garriga, G. Canal, J. Merchán, J. L. Balibrea
- 16 VALUE OF INTESTINAL GRAFTS AS A REINFORCEMENT OF DIAPHRAGM. EXPERIMENTAL STUDY IN DOG
J. Ojeda-Gil, J. Viñas-Salas
- 17 A NEW MODEL OF DOUBLE DUODENAL EXTERNAL FISTULA FOR THE STUDY OF THE EXCLUDED DUODENUM ON THE LONG-TERM LIVING DOG
J. R. Morandeira, R. Lozano, J. Hernández, F. Ruiz Marcuello, A. Sadaba, J. M. Revilla
- 18 DETERMINATION OF BILIARY REFLUX INTO THE RESIDUAL STOMACH AFTER SUBTOTAL GASTRECTOMY WITH GASTROJEJUNOSTOMY (BILLROTH II)
S. Gustavsson, L.-K. Enander, B. Jung, F. Nilsson, T. Wilén
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Dalacin C Phosphate

(clindamycin phosphate injection)

Description, Physical Properties

Dalacin C Phosphate is a sterile solution of a water-soluble ester of clindamycin and phosphoric acid which contains the equivalent of 150 mg clindamycin base, 5 mg benzyl alcohol, and 0.5 mg disodium edetate in each ml of water for injection. Clindamycin is a semi-synthetic antibiotic produced by a 7(S)-chloro-substitution of the 7(R)-hydroxyl group of the parent compound lincomycin.

The pH of Dalacin C Phosphate is approximately 6.3. If necessary, pH may be adjusted with a 10% sodium hydroxide solution and/or a 10% hydrochloric acid solution.

Dalacin C Phosphate is stable at room temperature (25°C) for at least 24 months and has not demonstrated inactivation or incompatibilities at room temperature for at least 24 hours in a concentration of 600 mg/1000 ml when added to the following infusion solutions (See page 6 for a listing of other physical compatibilities and incompatibilities.):¹

- Sodium chloride in injection
- Dextrose 5% in water or saline
- Dextrose 5% in Ringer's solution
- Dextrose 5% in half-strength saline
- Dextrose 2.5% in lactated Ringer's solution (Hartmann's solution)

Dosage and Administration

Adults

Parenteral (IM or IV administration):

Serious infections: 600-1200 mg/day in 2, 3 or 4 equal doses.

More severe infections: 1200-2700 mg/day in 2, 3 or 4 equal doses.

For more serious infections, these doses may have to be increased. In life-threatening situations, doses of as much as 4.8 grams daily have been given intravenously to adults.

Children (over 1 month of age)

Parenteral (IM or IV administration):

Serious infections: 15-25 mg/kg/day in 3 or 4 equal doses.

More severe infections: 25-40 mg/kg/day in 3 or 4 equal doses.

As an alternative to dosing on a body weight basis, children may be dosed on the basis of square meters body surface: 350 mg/m²/day for serious infections and 450 mg/m²/day for more severe infections.

In severe infections it is recommended that children be

given no less than 300 mg/day regardless of body weight.

In cases of β -haemolytic streptococcal infections, treatment should be continued for at least 10 days.

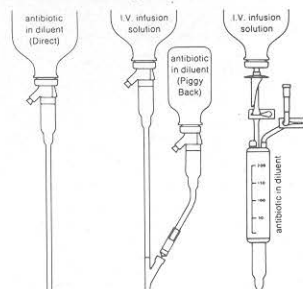
Dilution and Infusion Rates

Single IM injections of greater than 600 mg are not recommended. Dalacin C Phosphate must be diluted prior to IV administration to a dilution of 300 mg in 50 ml or more of diluent. Administration of more than 1200 mg in a single one-hour infusion is not recommended. Infusion rates are as follows:

Dose	Diluent	Time
300 mg	50 ml	10 min
600 mg	100 ml	20 min
900 mg	150 ml	30 min
1200 mg	200 ml	45 min

Dalacin C Phosphate should not be injected intravenously undiluted as a bolus.

Administration Techniques



Dalacin C Phosphate may be administered in those situations where continuous IV infusion is necessary to maintain constant clindamycin serum levels. If this procedure is desired, Dalacin C Phosphate may be administered in the form of a single rapid infusion of the first dose followed by continuous IV infusion as follows:

To maintain serum clindamycin levels	Rapid infusion rate	Maintenance infusion rate
Above 4 mcg/ml	10 mg/min for 30 min	0.75 mg/min
Above 5 mcg/ml	15 mg/min for 30 min	1.00 mg/min
Above 6 mcg/ml	20 mg/min for 30 min	1.25 mg/min

Parenteral therapy may be changed to oral Dalacin C when the condition warrants and at the discretion of the physician.

Compatibilities

Dalacin C Phosphate has demonstrated good chemical and physical stability at room temperature for at least 24 hours in a concentration of 600 mg/1000 ml when added to the following:¹

Infusion Solutions

Sodium chloride injection
Dextrose 5% in water or saline
Dextrose 5% in Ringer's solution
Dextrose 5% in half-strength saline plus 40 mEq potassium chloride
Dextrose 2.5% in lactated Ringer's solution (Hartmann's solution)

Antibiotics

Dalacin C Phosphate: 1200 mg/1000 ml in 5% dextrose in water is compatible with:

Carbenicillin – 1 Gm
Cephalothin – 4 Gm
Kanamycin – 0.5 Gm
Gentamicin – 60 mg
Penicillin G – 10 million units

Steroids – Hydrocortisone sodium succinate, methylprednisolone sodium succinate.

Vitamins – Solutions containing vitamin B complex in concentrations usually used clinically.

Incompatible – Dalacin C Phosphate is physically incompatible with solutions containing ampicillin, diphenylhydantoin, barbiturates, aminophylline, calcium gluconate, and magnesium sulphate.

Warnings

If significant diarrhoea or colitis occurs during therapy, clindamycin should be discontinued.

Management of colitis associated with clindamycin therapy: Mild cases of colitis may respond to drug discontinuance alone. Moderate to severe cases should be managed promptly with fluid, electrolyte, and protein supplementation as indicated. Systemic corticoids and corticoid retention enemas may help relieve the colitis.

Other causes of colitis should also be considered.

Review of experience to date suggests that a subgroup of older patients with associated severe illness may tolerate diarrhoea less well. When clindamycin is indicated in these patients, they should be carefully monitored for change in bowel frequency.

Dalacin C Phosphate should be prescribed with caution in individuals with a history of gastrointestinal disease, particularly colitis.

A careful inquiry should be made concerning previous sensitivities to drugs and other allergens.

Usage in Pregnancy – Safety for use in pregnancy has not been established.

Usage in Newborns and Infants – When Dalacin C Phosphate is administered to newborns and infants appropriate monitoring of organ system functions is desirable.

Nursing Mothers – Clindamycin has been reported to appear in breast milk in ranges of 0.7 to 3.8 mcg/ml.

Usage in Meningitis – Since clindamycin does not diffuse adequately into the cerebrospinal fluid, the drug should not be used in the treatment of meningitis.

Antagonism has been demonstrated between clindamycin and erythromycin *in vitro*. Because of possible clinical significance, these two drugs should not be administered concurrently.

Serious anaphylactoid reactions require immediate emergency treatment with Epinephrine. Oxygen and intravenous corticosteroids should also be administered as indicated.

Contraindications

This drug is contraindicated in individuals with a history of hypersensitivity to preparations containing clindamycin or lincomycin.

Adverse Reactions

The following reactions have been reported with the use of clindamycin.

Gastrointestinal: Abdominal pain, nausea, vomiting and diarrhoea.

Hypersensitivity Reactions: Maculopapular rash and urticaria have been observed during drug therapy. Generalised mild to moderate morbilliform-like skin rashes are the most frequently reported of all adverse reactions. Rare instances of erythema multiforme, some resembling Stevens-Johnson syndrome, have been associated with clindamycin.

A few cases of anaphylactoid reactions have been reported. If a hypersensitivity reaction occurs, the drug should be discontinued. The usual agents (epinephrine, corticosteroids, antihistamines) should be available for emergency treatment of serious reactions.

Liver: Jaundice and abnormalities in liver function tests have been observed during clindamycin therapy.

Hematopoietic: Transient neutropenia (leukopenia) and eosinophilia have been reported. Reports of agranulocytosis and thrombocytopenia have been made. No direct aetiological relationship to concurrent clindamycin therapy could be made in any of the foregoing.

Local Reactions: Pain, induration, and sterile abscess have been reported after intramuscular injection and thrombophlebitis after intravenous infusion. Reactions can be minimised or avoided by giving deep intramuscular injections and avoiding prolonged use of indwelling intravenous catheters.

