

European Association of Clinical Anatomy 3rd European Congress

Innsbruck, Austria, September 6-9, 1995

This congress is placed under the presidency of Professor W Platzer.
The abstracts have been chosen by a reviewing committee and are published hereafter.

Programme

Wednesday, September 6, 1995

- 14:00-17:00** **Registration**
at the Aula of the Institute of Anatomy,
Müllerstraße 59
- 18:00** **Welcome reception**
at the Aula of the Leopold-Franzens-University
Innsbruck Innrain 52
- 18:00 Opening ceremony
18:30 Get together evening

- 10:05** **Endoluminal ultrasonography of the auditory tube**
(eustachian tube) - first results
GM Sprinzl, T Gotwald, F Frauscher, C Völklein,
E Brenner, G Helweg **A37**

- 10:20 - 10:40** **Coffee break**

- 10:40 - 12:30** **Lectures II**
Chairman: JP Chevrel

- 10:40** **The modern teaching of modern anatomy**
JP Chevrel (20 min) **A7**

- 11:00** **Using unembalmed cadavers in controlled impact studies**
M Hines, W Burke, R Stalnaker, J Jennings, R Burton,
R Saul **A19**

- 11:15** **The role of exams in learning anatomy: self-directed vs**
other-directed
S Percac, P J McArdle **A29**

- 11:30** **Teaching gross anatomy**
O Prochazkova, T Gral **A30**

- 11:45** **ANAtOMIC - Endoscopic anatomy for teaching and**
developing minimal-invasive chirurgie (Surgery)
S Recknagel, H Witte, J Kozianka, H Waleczek,
W Kozuschek, H Preuschoft **A32**

- 12:00** **Improved three-dimensional conception of regional**
anatomy by use of a special cadaveric preparation
in teaching central venous catheterization skills
J Buithieu, ST Higano, DR Cahill **A5**

- 12:15** **Construction of the visible human dataset™**
DG Whitlock, V M Spitzer **A40**

Thursday, September 7, 1995

- 9:00 - 10:20** **Lectures I**
Chairman: W Platzer
- 9:00** **Endoscopic and intraoperative 3D-anatomy of the**
paranasal sinuses
WF Thumfart (invited speaker, 20 min), W Freysinger,
AR Gunkel, C Pototschnig, MJ Truppe **A3**
- 9:20** **Preparation techniques for the evaluation of the human**
inner ear
G Kanonier, KH Thurner, A Scholtz, A Schrott-Fischer **A21**
- 9:35** **Nasal muscles and their relationship to the skin**
H Fritsch, A v Criegern, A Hacring, W Kühnel **A12**
- 9:50** **Misdirected reinnervation after transection of the facial**
nerve
O Guntinas-Lichius, DN Angelov, M Streppel, E Stennert,
WF Neiss **A16**

12:30-14:00 **Lunch break**

14:00 - 16:00 **Lectures III**
Chairman: R Putz

14:00 **Biometry and biomechanics of the subtalar joint**
(experimental study about 50 cases)
F Bonnel, F Canovas **A4**

14:15 **Three-dimensional reconstruction of the wrist biometry**
of the carpal bones
F Canovas, M Prudhomme, M Jaeger, F Bonnel **A6**

14:30 **The abdominal midline: an anatomic and biomechanical**
study applicated to the treatment of incisional hernias
AM Rath, J Zhang, JP Chevreil **A31**

14:45 **Accurate determination of articular cartilage thickness**
in the knee with magnetic-resonance chondro-
crassometry (MR-CCM)
A Gavazzeni, F Eckstein, H Sittek, E Schulte, S Milz,
R Putz, B Kiefer, M Reiser **A13**

15:00 **Altered patterns of subchondral bone mineralisation in**
Kienböck's disease
R Giunta, N Löwer, R Kierse, K Wilhelm,
M Müller-Gerbl **A14**

15:15 **The lower trapezius musculocutaneous flap**
AH Weiglein, F Haas, G Pierer **A39**

15:30 **Functional changes of the temporo mandibular joints**
(TMJ) in patients undergoing orthodontic therapy - with
and without premolar extraction
S Kulmer, W Heiser, J Reichegger, A Niederwanger,
H Dumfahrt **A24**

15:45 **Clinical anatomy of the maxillary molar teeth**
E Roussa, E Reich **A35**

16:00 - 16:30 **Coffee break**

16:30 - 18:00 **Poster session I**
Dissecting rooms «Saal West» and «Saal Mitte»
All authors should be at their posters

Friday, September 8, 1995

9:00 - 10:35 **Lectures IV**
Chairman: G Bartsch

9:00 **The integration of clinical anatomy into the**
morphological sciences
W Kühnel (invited speaker, 20 min) **A1**

9:20 **Surgical anatomy of the proximal part of the long central**
artery (Heubner's recurrent artery)
B Cizek, I Kwolek-Klimkiewicz, W Mazurowski,
R Aleksandrowicz, M Zabek, R Górski **A8**

9:35 **3D morphometer: interest in analysis of vascular**
anatomy of the cerebral arteries **A10**
P Darnault, B Bompais, A Onghena, JF Heautot, M Carsin

9:50 **The morphology of accessory cusps of the mitral valve in**
adult human hearts
M Grzybiak, D Kozłowski **A15**

10:05 **Correlation between A. suprascapularis and plexus brachialis**
K Kosugi, T Hayakawa, and H Yamashita **A23**

10:20 **Anatomic examination as the base for the vertical**
infraclavicular blockade of the brachial plexus -
a new method in regional anaesthesia
H-G Kilka, M Herrmann, P Geiger, H-H Mehrkens **A22**

10:35 - 10:55 **Coffee break**

10:55 - 12:40 **Lectures V**
Chairman: F Anderhuber

10:55 **The structure of the coracoacromial ligament in correla-**
tion with the impingement syndrome
K Hausberger, G Sperner, P Seykora, H Maurer,
E Brenner **A17**

11:10 **Complications of intrapelvic or infraacetabular cement**
intrusion in total hip replacement - An anatomical study
K-D Heller, A Prescher, J Forst **A18**

11:25 **Rotational stability of cemented hip endoprostheses**
JW Landgraf, R Breul **A25**

11:40 **Morphology and vessel supply of the iliac crest in respect**
to jaw reconstruction
T Thein, J Kreidler, E Stocker, M Herrmann **A38**

11:55 **Spinal extradural arachnoid diverticulae**
R Reimer **A33**

12:10 **Radio-anatomical basis of jugular bulb catheterization**
for continuous cerebral oxygenation monitoring
D Liguoro, ME Petit-jean, J Carles, E Marguinaud,
J Guérin **A26**

12:25 **On the twigs of the ophthalmic artery**
I Kageyama, K Kobayashi, S Kato, H Yamashita **A20**

12:40-14:30 **Lunch break**

14:30 - 16:00 **Poster session II**
Dissecting rooms «Saal West» and «Saal Mitte»
All authors should be at their posters

16:00-16:30 **Coffee break**

16:30 - 17:30 **Free poster discussion**
Dissecting rooms «Saal West» and «Saal Mitte»
All authors should be at their posters

16:30 **Surgical and Radiologic Anatomy Board Meeting**

17:30 **General Assembly of the EACA**

19:30 **Dinner at the «Branger-Alm»**
Free transfer from and to the Institute of Anatomy

Saturday, September 9, 1995**9:00 - 10:45 Lectures VI**

Chairman: M Pavelka

- 9:00 Preparation of kidney tissue for ultrastructural and immuno-cytochemical analysis**
AB Maunsbach (invited speaker, 20 min) **A2**
- 9:20 Muscle systems in urinary bladder neck during aging - contribution to a new theory of micturation and urinary continence**
P Rother, S Löffler, W Dorschner, T Bengs **A34**
- 9:35 Continence after anterior exenteration (female, male) and radical prostatectomy: anatomical approach**
K Colleselli, H Strasser, S Poisel, A Stenzl, G Bartsch **A9**
- 9:50 First part of the internal thoracic (mammary) artery: ultrasound evaluation and anatomic considerations**
B Moriggl, W Sturm **A28**
- 10:05 Internal thoracic (mammary) vessels: a reliable recipient system for free flaps in breast reconstruction**
A Schwabegger, L Hefel, M Ninkovic, B Moriggl, E Brenner, G Wechselberger, H Anderl **A36**
- 10:20 Anatomy of the direct vagal trunk branches for the liver and biliary tract innervation**
D Dzidrova, V Dzidrov, D Jurkovic **A11**
- 10:35 An unknown orbital ligament and its role in ptosis surgery**
R Lukas, R Mayr **A27**
- 10:50 - 11:15 Coffee break**
- 11:15 - 12:15 Main lecture**
- The man from the Hauslabjoch**
W Platzer (abstract not provided)
- 12:15 Farewell noon**

Posters**Locomotor apparatus**

Chairman: S Poisel

- Frictional characteristics of human flexor tendons**
PC Amadio, S Uchiyama, H Coert, L Berglund, K-N An **A41**
- Ligaments of the lumbar intervertebral foramina**
HS Amonoo-Kuofi **A42**
- How do movements of the thigh influence the lumbar vertebral shape in upright sitting position?**
K Busching, H Witte, JC Schramm, S Recknagel, T Pakusa, H Preuschoft **A48**
- Experimental determination of joint pressure in the shoulder**
A Conzen, F Eckstein, J Landgraf, R Putz **A51**

What is the optimal pulse sequence for the non-invasive determination of articular cartilage volume and thickness with MRI?F Eckstein, A Gavazzeni, H Sittek, S Milz, E Schulte, B Kiefer, M Reiser, R Putz **A55****Quantification of hip joint incongruity with polyether casts**R v Eisenhart-Rothe, F Eckstein, F Löhe, J Landgraf, M Müller-Gerbl, R Putz **A56****The radius head shape - a cylinder?**G Fronhöfer, F Anderhuber **A60****Morphological changes in hallux valgus feet**FK Fuss **A61****CT osteoabsorptiometry - a method for assessing objectively the outcome of a correction osteotomy in the knee joint**S Griebel, H Anetzberger, M Kuhr, R Kierse, M Müller-Gerbl, R Putz **A64****Glenoid labrum and stability of the shoulder joint**J Koebke, N Koch, A Omar **A72****Finger joint load analysis by NMR imaging**JW Landgraf, R Breul, R Scheck **A78****Morphology and strain of the transverse acetabular ligament**F Löhe, F Eckstein, T Sauer, R Putz **A80****Identifying skeletal trauma in fatal infant abuse**SC Marks, Jr, PK Kleinman **A83****Clinical anatomy of the lumbar vertebral cartilaginous plates**A Martínez-Almagro, V Almenar García, FJ Pérez Moltó, JL Martínez Romero, F Esparza Ros **A84****Sonographic visualisation of the lateral ligaments of the ankle-joint in vivo and in vitro**S Milz, P Milz, T Mittelmeier, M Steinborn, M Reiser, R Putz **A87****"The structure below": coupling between motions of the thigh and of the pelvis - functional aspects and their anatomical bases**T Pakusa, H Witte, JC Schramm, K Busching, H Preuschoft **A94****A scanning electron microscopic study of ruptured anterior cruciate ligaments**M Rudert, G Reiss, CJ Wirth, D Kohn **A101****Clinico-anatomical investigations about the surgery of humeral shaft fractures**W Scheller, U Rolle, W Schmidt, J Bennek **A105****Contribution to the ankle joint injury during car crash**J Stingl, P Cech, A Doubkova, S Holy, J Kovanda **A110****Analysis of the dicriminated space of the longitudinal arch of female feet**A Strateska, A Kargovska, N Gjorgjevic, D Lazarova, N Naceva **A111****Roentgenological measurements of the cervical spine and the spinal canal - influence of the age**Sulevska, A Kargovska, N Gjorgjevic, A Strateska, D Lazareva **A113**

Nervous system, reconstructive surgery

Chairman: P Bordei

Variations of "the deeper layer" of m. extensor digitorum of the hand

B Witte, K-S Pieper, M Herrmann A120

The ulnar nerve as vascularized nerve transplantat

H Anderl, K H Künzel A43

Functional and surgical considerations concerning nerve of the pterygoid canal (Vidian nerve)

D St Antohe, P Bordei, H Varlam, D Martu A44

The intracranial routes of the IX - XII nerves in human foetus

P Bordei, D St Antohe, D Ulmeanu A46

Specific aspects of the foramina transversarium of the cervical vertebrae

P Bordei, R Stanca, D Iliescu, M Cambrea A47

Morphology of the neurovascular compression in the magnetic resonance imaging of the posterior cranial fossa

B Ciszek, K Szopirski, R Aleksandrowicz, M Zabek, W Mazurowski, B Lakomic, M Luczak, R Górski A49

Endoscopic anatomy of the posterior cranial fossa

M Tschabitscher, JD Day A116

Topography of pelvic plexus in the female pelvis

R De Caro, PF Munari, L De Caro, E Sgambati, E Brizzi A52

Topographic anatomy of the palmar branch of the median nerve, apropos of 38 cases

C Fontaine, J Brazier, M Zakaria A58

Median nerve compression produced by reversed palmaris longus muscle

M Ninkovic, W Grath, T Schöller, H Anderl A91

The position of the trunc of the hypoglossal nerve in the tongue

GCh Scheiderbauer, A Pomaroli A104

Clinical anatomy of the anterolateral femoral reverse island flap

M Tang A114

The blood and nerve supply of the musculus palmaris longus

NP Tesch, S Gabor, G Feigl, F Anderhuber A115

Some variations in the formation of the brachial plexus in the infant

A Uzun, XS Bilgiç A118

Nerve supply studies of the forearm flexor muscles

B Witte, M Herrmann A119

Vascular system

Chairman: W Kühnel

Corticostriatal trunk of the middle cerebral artery

B Ciszek, R Aleksandrowicz, M Zabek, W Mazurowski A50

The "accessory internal jugular vein" in neuroradiologic catheterizations of the inferior petrosal sinus

JHD Fasel, P Gailloud, DA Rüfenacht A57

Some features of the chest anatomical profile in subjects with mitral valve prolapse (MVP)

A Hafizi, M Çela, S Qirko A65

Femoral vein occlusion during simulated hip arthroplasty - an experimental cadaver study

K-D Heller, A Prescher, KW Zilkens, R Forst A66

Anatomical study of intrahepatic distribution of left portal vein branch

D Jurkovic, D Dzidrova, M Papazova Kocova A68

Persistent median artery: an anatomical study in neonatal and adult cadavers

C Kopuz, B Gülman, S Baris A73

Anatomical basis of congenital coronary anomalies

K Korneti-Pekavska A74

Myocardial bridges over coronary arteries prevent atherosclerosis

E Kozluk, M Adamowicz, D Kozlowski, E Walczak, M Grzybiak, F Walczak, S Kruc A76

Intra- and extracardiac venous drainage of the atria of the human heart

M von Lüdinghausen, N Ohmachi, I Kageyama A81

Absence of three ordinary thyroid arteries replaced by an unusual Arteria thyroidea ima: a case report

B Moriggl, W Sturm A88

Neoaponeurosis formation as a reaction of transversal fascia after synthetic cusp implantation. An experimental study

S Nikolov, B Belchev, K Prodanov, S Donev A90

Acute abdomen in a case of postthrombotic VCI stenosis and thrombotic occlusion of collateral vessels

W Schmidt, R Klöppel, M Biesold A106

Persistent ventriculus terminalis in the newborn - sonographic findings

KM Unsinn, I Gaßner A117

ENT

Chairman: W Thumfart

Inspiratoric and expiratoric changes in airflow through the nasal cavity and the paranasal sinuses

H Bade, J Koebeke A45

Endoscopy of the middle ear

C Klug, B Fabinyi, P Hechl, M Tschabitscher A71

Tympanic insertion - a contribution to the understanding of the physiopathology of the cholesteatoma

J Paço A93

Contributions on a morphological study of the auditory ossicles and the tympanic cavity

CI Radu, D Ulmeanu, P Bordei, N Rottenberg,
D St Antohe A100

Dependence of the body height and body mass on the age in young population 7 to 20 year of age from the Macedonian nationality

N Nakeva, N Gjorgjevic, D Lazarova, A Strateska, M Koceva A89

Topography

Chairman: J Krmpotic-Nemanic

Anatomical and clinical aspects of inguinal canal, during inguinal hernia

G Diana, M Arcara, G Guercio, V Sommariva, G Peri,
F Farina, V Mraciano, C Ridola A53

On anatomical and biomechanical approach of the gluteal area in the seated position

S Ghannouchi, L Chabert, R Maatar, R Daumane, C Cavallero,
J Bonnoit. Technical collaboration; F Basile,
C Lavillegrand A62

Clinical-anatomical examinations of the anterior ilioinguinal approach according to Letournel in acetabular fractures

P Keppler, M Sarkar, B Witte, M Herrmann, L Kinzl A70

The internal architecture of the thoracic pedicle

R Kothe, JD O'Holleran, W Liu, MM Panjabi A75

Complexity of the thoracic pedicle surface anatomy

MM Panjabi, JD O'Holleran, Ramus Kothe, T Crisco A95

Clinical-anatomical studies of the posterior approach according to Kocher-Langenbeck in acetabular fractures

M Sarkar, P Keppler, B Witte, M Herrmann, L Kinzl A102

Stomatognathic system

Chairman: J Krmpotic-Nemanic

Stress and reduced longevity: macroscopic dental evidence from prehistoric Americans

SM Duray A54

How to prevent the changes of the mandible after teeth loss?

J Krmpotic-Nemanic, I Vinter, D Jalsovec, J Hat A77

Development

Chairman: G Klima

Investigations for determination of the developmental age of human fetuses

R Fröber, R Rummer, W Gross, Ch Schleicher, R Neumann,
E Schulze, W Linss A59

Comparison of fetal parameters evaluated in fetuses by anthropometric and ultrasound measurements

D Lazarova, A Stateska, N Naceva, M Papazova A79

Electronic media

Chairman: G Klima

Digital anatomist interactive atlases

D Graney, D Conley, JW Sundsten, P Ratiu, W Rauschnig,
JF Brinkley, C Rosse A63

Histology

Chairman: G Klima

Experimental study of the reactivity of milky spots (Kampmeier's Foci) of the pleural space

AS Pereira, AP Águas, MJ Oliveira, NR Grande A96

The connective tissue in the exit region of the n. occipitalis major

K-S Pieper, H Abele, B Witte, M Herrmann A97

Experimental study of polyester lace suture fixation of winged scapula in facio-scapulo-humeral musculature dystrophy

A Prescher, K -D Heller, J Forst A98

A method to create anatomically shaped cartilage implants

W Puelacher A99

Human myenteric plexus in tissue culture

KH Schäfer, P Mestres A103

Development of clinically relevant models of metastasis using SCID mice and lectin defined human cancer cells

U Schumacher, E Adam, S A Brooks, A J Leatham A107

Kupffer cells in transplanted rat liver during rejection and cyclosporine A treatment

I Steinmetz, T Weber, E Hanisch K Kusterer,
S Angermüller A109

Light and electron microscopy of cultured keratinocyte sheets designed to be used for burn treatment

D Subrtová, J Mokry, P Méricka, H Straková A112

History

Chairman: G Klima

The influence of Austrians and Joseph Hyrtl (1810-1894) on the modernization of the Ottoman-Turk medicine

G Ortug A92

Methodology

Chairman: G Bartsch

Use of plastinated specimens enhanced by labelling specimen photographs

RW Henry, TK Rowles, LM Janick A67

Actual anatomical image and PC imagistic processing

GN Macovei, H Varlam, D St Antohe, A Doloca A82

Densitometric analysis of the orbita

A Menzler, GM Sprinzl, TF Gotwald, J Koebke A85

Morphological characteristics of experimentally induced spermatocela

L Milenkova, N Kostovska, A Kalamaras A86

R C T - the rotationcryotome

A Kathrein, Th Klestil, Ch Rangger, W Rabl, KH Künzel A69

Whole-organ-plastination of larynges - a macro- and a microscopic study

GM Sprinzl, T Gotwald, E Brenner, C Pototschnig, WF Thumfart A108

Read by title**Presence and localization of myocardial infarction in patients with the myocardial bridge over the coronary artery**

M Adamowicz, E Kozluk, D Kozlowski, E Walczak, M Zwaliński, M Grzybiak, F Walczak A121

Meniscectomy vs meniscus replacement - a comparative analysis of the subchondral mineralisation patterns by CT-OAM

H Anetzberger, G Metak, MA Scherer, M MüllerGerbl A122

First steps towards COGNIS

B Brabec, HR Thierstein, F Ade A123

The plastination of temporal bones- a method for the macroscopic and microscopic investigation of anatomic relevant structures

K Bumm, GM Sprinzl, T Gotwald, M Voegelé, WF Thumfart A124

Vena cerebri media superficialis - a microanatomical study with surgical applications

B Cizek, A Andrzejczak, M Dabrowska, R Aleksandrowicz, W Mazurowski, M Zabek A125

Anatomic structures resulting in the azygo-oesophageal recess appearance: comparison between scout view and axial views of chest computed tomography

P Darnault, R Ramond, JF Heautot, C Bouriel, JM Duval A126

Protective effects of prostacyclin-analogue and lipoxigenase inhibitor on mitochondria of cardiac myocytes after experimental ischemia and reperfusion

G Fitzl, K Welt, D Winkler, V Müller A127

Biomechanical considerations of high tibial osteotomy

FK Fuss, M Böhler A128

Corpus callosotomy - some aspects of corpus callosum microsurgical anatomy

A Goncalves-Ferreira, L Levy Melancia, H Herculano, JP Farias, J Miguens A129

Ultrasound anatomy of normal and injured muscles and tendons

W Grechenig, F-J Seibert, A Weiglein, NP Tesch A130

Compound osteosynthesis of pathological fractures of the proximal femoral shaft - experimental cadaver-studies on the effects of additional intramedullary splinting

K-D Heller, KW Zilkens, A Prescher, Hammer A131

Remarks on the form of the thebesian valve for clinical practitioners

A Kolesnik, PM Dobosz, R Aleksandrowicz, M Brzozowska, B Cizek A132

In vitro evaluation of sperm-mucus penetration of asthenoteratozoospermic semen samples

N Kostovska, L Milenkova A133

False tendons in the left ventricle of the heart - a macro and microscopic study

D Lotkowski, M Grzybiak, D Kozlowski, P Kolodziej A134

Non-coronar arterial supply of the human myocardium

M von Lüdinghausen, N Ohmachi, S Besch, Ch Pietsch A135

Densitometric analysis of the osteologic anatomy of the zygomatic bone

FU Metternich, GM Sprinzl, C Pototschnig, WF Thumfart, J Koebke A136

Detection of cell proliferation and apoptosis in tissue

J Mokry A137

Characteristics of pelvic parameters in Macedonian population

N Naceva, N Gjorgjevic, D Dzidrova, K Kometi, M Kocewa A138

The influence of ischaemia and reperfusion on the size of skeletal muscle capillaries measured by morphometry

Ch Neumayer, I Huk, J Nanobashvili, A Holzaepfel, M Mittlboeck, A Punz, H Gruber, E Roth A139

Heart and others systemic complex congenital malformations

M Nikolovski, S Duganova, K Kometi-Pekavska, M Jovanovski A140

The effects of nasal obstruction into middle mucosa
C Ortug A141

Anatomical and clinical aspects of entrapment syndromes of main nerves of the lower limb
G Peri, S Peri, C Ridola, U Martorana, G Grecomoro, G Letizia A142

Are the adductors of the human leg underloaded? A functional-anatomical survey
K-S Pieper, P Fehrmann, W Laube, M Herrmann A143

Hypoxia dependent changes of enzyme activities in different muscle fibre types
K Punkt, A Unger, K Welt, L Schaffranietz A144

Cross sectional evaluation of traumatic subchondral knee joint disorders by MRI and cryosectioning
C Rangger, A Kahrein, T Klestil, W Rabl A145

Brain painting: densitometric visualisation of dystrophin mRNA
J Rowiński, DC Górecki, EA Barnard A146

Computer simulation of the human knee joint
H-B Schmiedmayer, P Lugner, T Gaudernak A147

The intracranial course of the abducens nerve
I Tekdemir, H Deda K Arinci, ST Karahan A148

Applied anatomy of labyrinthine artery
H Varlam, D St Antohe, P Bordei A149

Effects of protectants against hypoxic stress in myocardial capillaries. Results of quantitative ELMI
K Welt, G Fitzl A150

Transsacral spinaloscopy - anatomical bases and clinical perspectives
H Witte, S David, J Grifka, S Recknagel, B Witte, M Herrmann A151

Notes