

Thursday April 15, 2010

Main Program: Biology – Clinics - Physics

12:00 – 13:15 **Registration**

13:15 – 13:30 **Opening ceremony**

Roberto Mini, Congress president
Daniel Aebersold, President of SASRO
Urs Würigler, Rector University of Bern

13:30 – 14:30 **Clinics I**

Chairpersons: L. Plasswilm, G. Studer
Proffered paper session (12 min + 3 min discussion)

13:30 (CO01) **PATTERNS OF FAILURE AND TOXICITY AFTER INTENSITY-MODULATED RADIOTHERAPY WITH SIMULTANEOUS INTEGRATED BOOST FOR HEAD AND NECK CANCER**

Töpfer M., Wille N., Putora P.M., Brügge D., Arn M., Schiefer J., Plasswilm L., Klinik für Radio-Onkologie, Kantonsspital St. Gallen

13:45 (CO02) **TOXICITY OF TWO CONCURRENT CHEMORADIATION (CCHT-RT) SCHEDULES IN LOCALLY ADVANCED HEAD AND NECK CANCER**

Richetti A., Martucci F., Salatino A., Pesce G., Valli M.C., Espeli V., Fogliata A., Clivio A., Vanetti E., Nicolini G., Ghielmini M., IOSI Radio-Oncology, Medical Physics, Medical Oncology

14:00 (CO03) **LOCAL AND REGIONAL RECURRENCE OF EARLY MOBILE TONGUE CARCINOMA (PT1-2 PN0-1) AFTER PRIMARY TREATMENT**

Wolfensberger P.R., Arnold A., Geretschläger A., Roth T., Friedrich H., Schmidt P., Schmücking M., Zbären P., Aebersold D.M., Blumstein N.M., Depts. of ¹Radio-Oncology, ²ENT, Inselspital, University of Berne

14:15 (CO04) **MANDIBULAR OSTEORADIONECROSIS IN SQUAMOUS-CELL CARCINOMA OF THE ORAL CAVITY AND OROPHARYNX: INCIDENCE AND RISK FACTORS**

Betz M.^{1,2}, Ozsahin M.¹, Broome M.⁴, Bouferrache K.⁵, Jaques B.⁴, Monnier Y.³, ¹Departments of Radiation Oncology, ²Department of Radiation Oncology, HUG, Geneva, ³Otolaryngology, ⁴Maxillo-Facial Surgery and ⁵Stomatology and Dentistry, CHUV, Lausanne.

Thursday April 15, 2010

Main Program: Biology – Clinics - Physics

14:30 – 15:15 **Poster viewing and industrial exhibition**
Coffee break

15:15 – 17:00 **Physics I**

Chairpersons: A. Bolsi, A. Fogliata
Proffered paper session (12 min + 3 min discussion)

15:15 (PO01) **ENABLING eMC DOSE CALCULATIONS IN ECLIPSE FOR SIEMENS ACCELERATORS**

Fix M.K.¹, Cygler J.E.², Vandervoort E.², Karle H.³, Tertel J.³, Frei D.¹, Volken W.¹, Born E.J.¹, Manser P.¹, ¹Division of Medical Radiation Physics Inselspital - University of Berne, Switzerland, ²Medical Physics Department, The Ottawa Hospital Cancer Centre, Ottawa, Canada, ³Department of Radiation Oncology and Radiation Therapy, Clinical Center of the Johannes Gutenberg University of Mainz, Germany

15:30 (PO02) **INTENSITY MODULATED THERAPY PLANS: IS THERE A NEED TO DEFINE SAFETY MARGINS?**

Albertini F., Hug E.B., Lomax A.J., Center for Proton Therapy Paul Scherrer Institute Villigen AG, Switzerland

15:45 (PO03) **SCANNED PROTON RADIOTHERAPY FOR MOBILE TARGETS - THE INFLUENCE OF FIELD NUMBER AND DIRECTIONS**

Knopf A.-C.¹, Hug E.B.^{1,2}, Lomax A.^{1,3}, ¹Center for Proton Therapy, Paul Scherrer Institute, Villigen, ²Proton-Radiotherapy, University of Zurich, ³ETH Zurich

16:00 (PO04) **PROTON RADIOGRAPHY: A FIRST PROTOTYPE USING NUCLEAR FILM EMULSIONS**

Braccini S.¹, Ereditato A.¹, Kreslo I.¹, Moser U.¹, Pistillo C.¹, Scamporrì P.^{2,3}, Studer S.¹, ¹Albert Einstein Centre for Fundamental Physics, LHEP, University of Bern, Switzerland, ²Department of Radiation Oncology, University of Bern, Inselspital, Switzerland, ³Dipartimento di Fisica, Università di Napoli, Italy

16:15 **Invited Speaker: R. Jeraj**, Departments of Medical Physics, Human Oncology and Biomedical Engineering University of Wisconsin - Madison
HOW IS MOLECULAR IMAGING CHANGING RADIATION ONCOLOGY?

17:00 – 18:00 **SRO General assembly**

Friday April 16, 2010

Main Program: Biology – Clinics - Physics

8:30 – 10:30

Physics II

Chairpersons: M. Pachoud, M. Fix
Proffered paper session (12 min + 3 min discussion)

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- 8:30 (PO05) **FLATTENING FILTER FREE IMRT/RAPIDARC WITH A MODIFIED VARIAN'S TRILOGY LINEAR ACCELERATOR**
Hrbacek J.¹, Lang S.¹, Bocanek J.², Klöck S.¹,
¹Universitätsspital Zürich, Klinik für Radio-Onkologie,
²Varian Medical Systems
- 8:45 (PO06) **PATIENT SPECIFIC QUALITY ASSURANCE FOR RAPIDARC USING SWISS MONTE CARLO PLAN**
Manser P., Schmidhalter D., Born E.J., Mini R., Volken W.,
Frei D., Fix M.K., Division of Medical Radiation Physics,
Inselspital and University of Berne, Switzerland
- 9:00 (PO07) **COMPARISON BETWEEN DIFFERENT METHODS USED FOR 3D IN VIVO DOSIMETRY IN TOMOTHERAPY TREATMENTS**
Schombourg K., Bochud F.O., Moeckli R., Institute of
Radiation Physics, University Hospital Centre (CHUV) and
University of Lausanne
- 9:15 (PO08) **PERIPHERAL ORGAN DOSES BY MONTE CARLO FOR CONVENTIONAL BREAST CANCER TREATMENT**
Joosten A.¹, Levi F.², Baechler S.¹, Mirimanoff R.-O.³,
Bochud F.¹, Moeckli R.¹, ¹Institute for Radiation Physics,
²Cancer Epidemiology Unit and Cancer Registries of Vaud
and Neuchâtel, Institute of Social and Preventive Medicine,
³Department of Radiation Oncology, CHUV, Lausanne
- 9:30 (PO09) **IMAGE QUALITY AND ABSORBED DOSE OF IGRT SYSTEMS USED IN SWITZERLAND**
Scheib S.¹, Griff F.¹, Germond J.-F.², Hasenbalg F.³,
Lutters G.⁴, Pachoud M.⁵, ¹VMS Imaging Laboratory,
²Hôpital Neuchâtelois La Chaux-de-Fonds, ³Triemli Hospital
Zurich, ⁴Kantonsspital Aarau, ⁵CHUV
- 9:45 **Invited Speaker: M. Rudin**, Institute of Biomedical
Engineering, University and ETH Zurich, Switzerland
**IMAGING TUMOR HYPOXIA AND ITS DOWNSTREAM
CONSEQUENCES**

Friday April 16, 2010

Main Program: Biology – Clinics - Physics

10:30 – 11:15

Poster viewing and industrial exhibition
Coffee break

11:15 – 12:15

Clinics II

Chairpersons: B. Kläser, W. Harms
Proffered paper session (12 min + 3 min discussion)

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- 11:15 (CO05) **A 4D SOFTWARE FOR BREATHING ADAPTED RADIOTHERAPY (RT) OF LUNG CANCER**
Péguret N.¹, Vock J.¹, Fenoglietto P.², Azria D.²,
Vinh-Hung V.¹, Miralbell R.¹, ¹Department of Radiation
Oncology, HUG, Geneva, Switzerland, ²Department of
Radiation Oncology, CRLC, Montpellier, France
- 11:30 (CO06) **IMPACT OF PET-CT-GUIDED INTERVENTIONS WITH REGARD TO THE THERAPEUTIC MANAGEMENT OF CANCER PATIENTS PLANNED FOR RADIOTHERAPY: INITIAL EXPERIENCES**
Blumstein N.M.¹, Klaeser B.², Loessl T.¹, Madlung A.¹,
Cicoric N.¹, Ionescu C.¹, Blumstein C.G.¹, Aebersold D.M.¹,
Krause T.², ¹Depts. of Radio-Oncology and ²Nuclear
Medicine, Inselspital, University Hospital and University of
Bern
- 11:45 (CO07) **CORRELATION OF AUTOMATIC AND MANUALLY DEFINED BIOLOGICAL TARGET VOLUMES IN ESOPHAGEAL CANCER**
Betz M.¹, Vock J.², Zaidi H.², Buchegger F.², Veas H.¹,
Miralbell R.¹, Ratib O.¹, Wissmeyer M.², ¹Department of
Radiation Oncology, HUG, Geneva, ²Department of Nuclear
Medicine, HUG, Geneva
- 12:00 (CO08) **SWAN: A COMBINED CENTRE FOR PROTON THERAPY, RADIOISOTOPE PRODUCTION AND RESEARCH IN BERN**
Braccini S.¹, Aebersold D.M.², Ereditato A.¹, Scampoli P.²
and von Bremen K.³, ¹Albert Einstein Center for
Fundamental Physics, Laboratory for High Energy
Physics (LHEP), University of Bern, ²Department of
Radiation Oncology, Inselspital, University Hospital an
University of Bern, ³SWANtec AG, Bern

Friday April 16, 2010

Main Program: Biology – Clinics - Physics

- 12:15 – 13:45** *Poster viewing, lunch break and industrial exhibition*
- 12:45 – 13:45** *Lunch symposium and industrial exhibition*
- 13:45 – 15:00** *Clinics III*
Chairpersons: S. Bieri, G. Gruber
Proffered paper session (12 min + 3 min discussion)
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- 13:45 (CO09) **WHICH PARAMETERS REMAIN RELEVANT FOR LOCAL CONTROL AND SURVIVAL AFTER A STANDARD THERAPY IN PATIENTS WITH BREAST CANCER AND BREAST CONSERVING MANAGEMENT?**
Hammer J.¹, Track C.^{1,2}, Pöstlberger S.^{2,3}, Spiegl K.J.¹, Thames H.D.⁴, Seewald D.H.⁵, Feichtinger J.¹, Petzer A.L.⁶, Beheshti M.⁷, Bräutigam E.¹, Barmherzige Schwestern Hospital, Linz 1-3, 6-7
- 14:00 (CO10) **LOCAL FAILURE IN BREAST-CONSERVING THERAPY WITH REGARD TO LOCALISATION AND DOSE OF RADIOTHERAPY**
Cihoric N.¹, Aebersold D.M.¹, Trajkovic G.², Loessl K.¹
¹Radiation-Oncology, Inselspital, Bern University Hospital, ²Institute for medical statistic and informatics, Belgrade
- 14:15 (CO11) **TREATMENT RESPONSE IN FDG-PET-BASED TREATMENT PLANNING FOR DOSE ESCALATION IN LOCOREGIONAL ADVANCED CERVICAL CANCER**
Cihoric N.¹, Klaeser B.², Aebersold D.M.¹, Loessl K.¹,
¹Radiation-Oncology, Inselspital, Bern University Hospital, ²Nuclear Medicine, Inselspital, Bern University Hospital
- 14:30 **SASRO HONORARY MEMBER TALK**
Prof. Richard Herrmann, Basel University Hospital
- 15:00 – 15:30** *Poster viewing and industrial exhibition*
Coffee break
- 15:00 **Joint invited Speaker: V. Grégoire**, Université Catholique de Louvain, Brussels, Belgium
RADIOTHERAPY FOR HEAD AND NECK TUMORS: WHERE ARE WE HEADING TO?

Friday April 16, 2010

Main Program: Biology – Clinics - Physics

- 16:15 – 17:15** *Biology*
Chairpersons: M. Pruschy, Y. Zimmer
Proffered paper session (12 min + 3 min discussion)
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- 16:15 (BO01) **A NOVEL MET-ATR-CHK1 AXIS AS A MOLECULAR TARGET FOR SENSITIZATION OF TUMOR CELLS TO DNA DAMAGING AGENTS**
Medová M.¹, Aebersold D.M.¹, Blank-Liss W.¹, Streit B.¹, Medo M.², Aebi S.³, Zimmer Y.¹, ¹Radiation-Oncology, Inselspital, University of Berne, Switzerland, ²Department of Physics, University of Fribourg, Switzerland, ³Medical Oncology, Inselspital, University of Berne, Switzerland
- 16:30 (BO02) **GLIOMASTOMA EXPRESSING MGMT: CONTRIBUTION OF PATRIN-2 IN RADIOTHERAPY WITH TEMOZOLOMIDE**
Perillo-Adamer F.¹, Buchegger F.², Rügge C.³, Mirimanoff R.O.¹, ¹Department of Radio-Oncology, CHUV, Lausanne, ²Department of Nuclear Medicine, CHUV, Lausanne, ³Division of Experimental Oncology, CePO-UNIL-CHUV, Lausanne
- 16:45 (BO03) **THE P53-TARGET CPT1C DETERMINES SENSITIVITY TO METABOLIC STRESS IN TUMOUR CELLS**
Lohse I.¹, Feng J.¹, Lütolf U.M.¹, Mak T.W.², Zaugg K.¹,
¹Department of Radiation Oncology, University Hospital Zurich, Switzerland, ²University of Toronto, Canada
- 17:00 (BO04) **DIFFERENTIAL DNA REPAIR MECHANISMS IN RESPONSE TO PROTON AND PHOTON IRRADIATION**
Grosse N.¹, Hug E.^{1,2}, Lomax A.², Staab A.², Sartori A.¹, Pruschy M.², ¹University Hospital and University of Zurich, Switzerland, ²Center for Proton Therapy PSI, Villigen, Switzerland
- 17:15 – 18:30** *SASRO general assembly*
- 19:30** *Transfer*
- 19:45** *Congress dinner*

8:30 – 9:45

Clinics IV

Chairpersons: R. Miralbell, M. Gross
Proffered paper session (12 min + 3 min discussion)

8:30 (CO12)

C-11 CHOLINE PET/CT AS A SELECTION TOOL FOR SALVAGE THERAPY IN PATIENTS WITH LOCAL RECURRENCE AFTER FIRST LINE PROSTATE BRACHYTHERAPY

Blumstein N.M.¹, Messer P.M.¹, Blumstein C.G.¹, Reske S.N., Roettinger E., Gottfried G.H., Perner S.R., Aebersold D.M.¹, Schmücking M., ¹Dept. of Radio-Oncology, Inselspital, University of Berne, Depts. of ²Radiooncology, ³Nuclear Medicine, ⁴Pathology University of Ulm

8:45 (CO13)

TARGET VOLUME DEFINITION IN HIGH RISK PROSTATE CANCER USING SENTINEL NODE SPECT AND 18F-CHOLINE PET-CT

Vees H.¹, Steiner Ch.², Chouiter A.³, Dipasquale G.¹, Wissmeyer M.², Ratib O.², Buchegger F.², Miralbell R.¹
¹Division of Radiation Oncology, ²Division of Nuclear Medicine and ³Division of Radiology, University Hospital, Geneva

9:00 (CO14)

ERECTILE FUNCTION PRESERVATION AFTER THERAPY OF LOCALIZED PROSTATE CANCER: 1125 PROSTATE SEED IMPLANT BRACHYTHERAPY VERSUS RADICAL PROSTATECTOMY

Putora P.M.¹, Engeler D.S.², Preusser S.², Markart P.², von Toggenburg F.², Töpfer M.¹, Collon J.¹, Schiefer H.¹, Schmid H.-P.², Plasswilm L.¹, ¹Klinik für Radio-Onkologie, Kantonsspital St. Gallen, ²Klinik für Urologie, Kantonsspital St. Gallen

9:15 (CO15)

URETHRAL TOXICITY VERSUS CANCER CONTROL – LESSONS TO BE LEARNED FROM HIGH-DOSE-RATE BRACHYTHERAPY COMBINED WITH INTENSITY-MODULATED RADIATION THERAPY IN INTERMEDIATE AND HIGH RISK PROSTATE CANCER.

Ghadjar P.¹, Rentsch C.A.², Isaak B.¹, Behrensmeier F.¹, Thalmann G.N.³, Aebersold D.M.¹, ¹Department of Radiation Oncology and ³Urology, Inselspital, Bern University Hospital and University of Bern, ²Department of Urology, University Hospital Basel, University of Basel

9:30 (CO16)

HIGH DOSE (80 GY) IMAGE GUIDED INTENSITY MODULATED RADIATION THERAPY AS PRIMARY THERAPY FOR LOCALIZED PROSTATE CANCER

Ghadjar P.¹, Gwerder N.¹, Manser P.¹, Vock J.², Madlung A.¹, Mini R.¹, Thalmann G.N.³, Aebersold D.M.¹, ¹Department of Radiation-Oncology, Inselspital, Bern University Hospital, ²Department of Radiation Oncology, University of Geneva, ³Department of Urology, Inselspital, Bern University Hospital

9:45 – 10:15

*Poster viewing and industrial exhibition
Coffee break*

10:15 – 12:00

Clinics V

Chairpersons: O. Matzinger, F. Zimmermann
Proffered paper session (12 min + 3 min discussion)

10:15

Invited Speaker: J. Bernier, Department of Radio-Oncology, Clinique de Genolier, Geneva, Switzerland
TOWARDS MULTI-TARGETED STRATEGIES IN HEAD & NECK ONCOLOGY

11:00 (CO17)

HIGH-RISK RECTAL CANCER: NEO-ADJUVANT CAPECITABINE AND OXALIPLATIN BEFORE RADIOTHERAPY WITH CONCOMITANT CAPECITABINE AND RADICAL SURGERY: LOCOREGIONAL RESPONSE

Brodmann S.¹, Bateman A.C.², Bateman A.¹, ¹Southampton General Hospital, Radiotherapy Centre, UK, ²Southampton General Hospital, Pathology, UK

11:15 (CO18)

QA FOR DELINEATION AND TREATMENT PLANNING: A SWISS EXPERIENCE

Naehrig D.¹, Sassowsky M.², Aebersold D.M.², Zimmermann F.¹, Meister A.³, Töpfer M.⁴, Schädler M.⁵
¹Radioonkologie Universitätsspital Basel, ²Medizinische Strahlenphysik & Universitätsklinik für Radioonkologie Inselspital, Bern, ³Radioonkologie Kantonsspital Aarau, ⁴Radioonkologie Kantonsspital St. Gallen, ⁵SAKK (Swiss Group for Clinical Cancer Research) Bern

11:30 (CO19)

TREATMENT PLANNING IN EXTRACRANIAL STEREOTACTIC RADIOTHERAPY (ESRT) OF LUNG AND LIVER TUMORS: 3DCRT OR RAPID ARC (RA)?

Wulf J., Van der Sluis J.W., Neuenschwander H., André L., Oppitz U., Thoeni A., Lindenhofspital Bern, Dept. of Radiooncology, Bern

11:45 (CO20) **PEDIATRIC CRANIOSPINAL AXIS IRRADIATION WITH HELICAL TOMOTHERAPY: PRELIMINARY RESULTS**
Herrmann E.¹, Beck-Popovic M.², Von der Weid N.², Sajadi A.³, Rilliet B.³, Lacombe C.¹, Letenneur G.¹, Pica A.¹
¹Radiation Oncology, ²Pediatric Oncology, ³Neurosurgery, CHUV, Lausanne

12:20 – 12:30 **Closing Address**

Biology

- BP01 **A KINETIC LQ – BASED MODEL FOR EXPLORING THE TUMOR RESPONSE ONTO RADIATION INCLUDING THE VASCULAR SYSTEM**
Scheidegger S.¹, Lutters G.², Bodis S.², ¹Centre of Applied Mathematics and Physics, ZHAW, Winterthur, Switzerland, ²Institute for Radio-Oncology, Kantonsspital Aarau, Switzerland
- BP02 **MET INHIBITION BY PHA665752 TARGETS HOMOLOGOUS RECOMBINATION REPAIR OF DNA DOUBLE STRAND BREAKS**
Medová M., Aebbersold D.M., Zimmer Y., Department of Radio-Oncology, Inselspital, University of Berne, Switzerland

Clinics

- CP01 **PARTIAL VOLUME HIGH-DOSE-RATE BRACHYTHERAPY BOOST FOR LOCALIZED PROSTATE CANCER: TOXICITY AND OUTCOME**
Schick U.¹, Popowski Y.¹, Nouet P.¹, Ares C.², Dipasquale G.¹, Bieri S.³, Rouzaud M.¹, Khan H.⁴, Weber D.C.¹, Miralbell R.¹, ¹Service de Radio-Oncologie, Genève; ²PSI, Villigen, ³Service de Radio-Oncologie, Sion, ⁴Institut J. Violette, Genève
- CP02 **ACUTE TOXICITY IN HEAD AND NECK CANCER PATIENTS TREATED WITH CONCOMITANT RADIOTHERAPY AND CETUXIMAB**
Caparrotti F.¹, Schick U.¹, Mach N.², Dulguerov P.³, Miralbell R.¹, Betz M.¹, ¹Departments of Radiation Oncology, ²Medical Oncology, and ³Otolaryngology, HUG, Geneva
- CP03 **ACUTE AND LATE GASTROINTESTINAL (GI) AND GENITOURINARY (GU) TOXICITIES AFTER IMRT FOR LOCALIZED PROSTATE CANCER**
Wuttke S., Schneider K., Pemler P., Lombriser N.
Department of Radiation Oncology, Stadtspital Triemli, Zürich
- CP04 **PRIMARY NON HODSKIN'S LYMPHOMA OF THE GINGIVA: A CASE REPORT**
Saadi I., Rami K., Hassouni K., Kebdani T., Benjaafar N., El Gueddari B.K., Institute National d'Oncologie, Rabat

- CP05 **PALLIATIVE RADIOTHERAPY OF A MANTLE CELL LYMPHOMA (MCL) OF THE WHOLE SCALP: A RAPIDARC SOLUTION**
Buescher C., Hrbacek J., Dossenbach T., Brown M., Walker A., Glanzmann C., Studer G., Department of Radiation Oncology, University Hospital Zurich, Switzerland
- CP06 **THREE IRRADIATION TECHNIQUES FOR A PATIENT WITH MORBUS HODGKIN CANCER IN THE HEAD AND THORAX REGIONS**
Näf G., Arn M., Stolz A., Schiefer H., Collon J., Plasswilm L., Klinik für Radio-Onkologie, Kantonsspital St.Gallen
- CP07 **YOU NEVER KNOW WHAT YOU GET : INTRACEREBRAL MANIFESTATION OF FUNGAL SEPSIS PRIMARILY LOCATED IN THE LUNG IN A PATIENT WITH T-CELL LYMPHOMA**
Collen T., di Lenardo F., Thum P., Department of Radiation Oncology, Kantonsspital Luzern, Switzerland
- CP08 **SECONDARY MALIGNOMA MORE THAN 40 YEARS AFTER IRRADIATION OF THE LEFT EARLOBE**
Collen T.¹, Berger C.², Seelentag W.¹, Plasswilm L.¹,
¹Department of Radiation Oncology and ²Department of Radiology, Kantonsspital St. Gallen, Switzerland
- CP09 **HPV-DNA IN TONSILLAR CARCINOMA: VIRAL TYPES, FREQUENCY AND POSSIBLE IMPACT ON RADIOSENSITIVITY**
Müller L.¹, Diebold J.², Collen T.¹, Greiner R.¹, Thum P.¹,
¹Department of Radiation Oncology, ²Institute of Pathology, Kantonsspital Luzern, Switzerland
- CP10 **IORT-FLAB-TECHNIQUE-EXPERIENCE IN ST.GALLEN**
Collen T.¹, Ebert T.², Warschkow R.³, Plasswilm L.¹,
¹Department of Radiation Oncology, Kantonsspital St. Gallen, ²Department of Orthopedics, Kantonsspital Münsterlingen, ³Department of Surgery, Kantonsspital St. Gallen, Switzerland
- CP11 **PRACTICAL IMPLICATIONS AND ACUTE TOXICITY OF A FOUR TIMES WEEKLY BREAST RADIOTHERAPY (RT) SCHEDULE**
Vock J., Peguret N., Balmer-Majno S., Miralbell R., Vinh-Hung V., Schneider D., Department of Radiation Oncology, University Hospital of Geneva, Switzerland

- CP12 **TOXICITY AND DOSE CONSTRAINTS WITH ADJUVANT IMRT FOR ENDOMETRIAL CANCERS**
Hallenbarter M.¹, Loessl K.¹, Bouchaab H.², Aebersold D.M.¹, Pica A.²,
¹Radiation Oncology, Inselspital, Bern University Hospital, ²Radiation Oncology, CHUV Lausanne
- CP13 **IMPROVED LOCAL TUMOUR CONTROL WITH RADIO-HYPERThERMIa FOR SUPERFICIAL CANCERS: A SINGLE CENTRE OVERVIEW FROM 2006-2009**
Puric E., Heuberger J., Lomax N., Bodis S., Department of Radiation Oncology, Kantonsspital Aarau
- CP14 **INSUFFICIENCY FRACTURE - CASE REPORT**
Mosna-Firlejczyk K., Schratzenstaller U., Zimmermann F., University Hospital Basel, Institute of Radio-Oncology
- CP15 **WHAT IS THE ADDITIONAL ROLE OF 18F FDG-PET/CT ON THERAPY MANAGEMENT DURING FOLLOW UP IN BREAST CANCER?**
Blumstein N.M.^{1,3}, Jäger G.^{1,4}, Reske S.N.³, Aebersold D.M.¹, Kurzeder M.⁴, Blumstein C.G.^{1,2},
¹Dept. of Radio-Oncology, Inselspital, University of Berne, ²Depts. of Radio-Oncology, ³Nuclear Medicine, ⁴Gynecology, University of Ulm
- CP16 **IS THERE A ROLE FOR DOSE PAINTING WITHIN THE PROSTATE IN THE PRIMARY THERAPY OF PATIENTS WITH LOCALIZED PROSTATE CANCER USING CHOLINE PET/CT, DYNAMIC MRI AND CAD OR CHOLINE MRS?**
Schmücking M.^{1,2}, Perner S.³, Boltze C.⁴, Geyer H.⁵, Finsterbusch F.⁶, Reske S.⁶, Wendt T.⁷, Marx Ch.², Aebersold D.M.¹, Blumstein N.M.^{1,6},
¹Depts. of Radio-Oncology, University of Berne, ²University of Jena, Depts. of ³Radiology, ⁴Urology, Greiz Country Hospital, Depts. of ⁵Pathology, ⁶Nuclear Medicine, University of Ulm, ⁷Dept. of Pathology, Teaching Hospital Gera
- CP17 **GA-68 DOTA-NOC-PET/CT FOR PATIENTS WITH MENINGIOMA TO OPTIMIZE HIGH PRECISION RADIOTHERAPY**
Schmücking M.¹, Baum R.P.², Aebersold D.M.¹, Hamm K.D.³, Blumstein C.¹, Blumstein N.M.¹,
¹Dept. of Radiation-Oncology, Inselspital, University of Berne, ²Dept. of Nuclear Medicine, Center for P.E.T., Zentralklinik Bad Berka, ³Dept. of Neurosurgery, Helios-Clinic Erfurt

- CP18 **EX VIVO STUDIES AND FIRST CASE REPORTS: PET/CT BASED GOLDEN MARKER IMPLANTATION FOR IMAGE GUIDED HIGH PRECISION RADIOTHERAPY (IGRT) FOR HEAD AND NECK CANCER**
Blumstein N.M.¹, Arnold A.², Krause T.³, Candrea C.⁴, Geretschlaeger A.¹, Zbären P.², Aebersold D.M.¹, Manser P.¹, ¹Depts. of Radio-Oncology, ²ENT, ³Nuclear Medicine, University of Berne
- CP19 **18F-FDG PET/CT AS A SELECTION TOOL FOR IMAGE GUIDED RADIOTHERAPY (IGRT) IN PATIENTS WITH RECURRENT OVARIAN CANCER**
Blumstein N.M.^{1,2}, Gebhard S.², Perner P.³, Schmücking M.¹, Blumstein C.^{1,5}, Aebersold D.M.¹, Reske S.N.², Kurzeder C.³, ¹Dept. of Radio-Oncology, Inselspital, University of Berne, Switzerland, ²Depts. of Nuclear Medicine, ³Gynecology, ⁴Pathology, ⁵Radio-Oncology, University of Ulm, Germany
- CP20 **FIRST EXPERIENCES WITH THE CYBERKNIFE-SYSTEM®**
Nobis P., Curschmann J., Gruber G., Mack A., Radiotherapie Hirslanden AG, Zuerich
- CP21 **EVALUATION OF IMAGE-GUIDED POSITIONING FOR FRAME-BASED INTRACRANIAL NOVALIS TX RADIOSURGERY**
Pica A.¹, Stibal A.², Choric N.¹, Malthaner M.¹, Born E.¹, Messer P.¹, Friedrich E.¹, Aebersold D.M.¹, ¹Radiation-Oncology Department, ²Neurosurgery Department, Inselspital, Bern
- CP22 **INTIMAL SARCOMA OF THE PULMONARY ARTERY TREATED WITH IMRT : EVIDENCEBASED TREATMENT RECOMMENDATIONS**
Loupataz B., Brown M, Zwahlen D.R., Department of Radiation Oncology, University Hospital Zurich
- CP23 **AUTOMATED ERYTHEMA QUANTIFICATION IN RADIATION THERAPY: FEASIBILITY OF THE DEVELOPMENT OF A CUSTOM JAVA TOOL**
Putora P.M.¹, Collon J.¹, Schiefer J.¹, Töpfer M.¹, Plasswilm L.¹, Klinik für Radio-Onkologie, Kantonsspital St. Gallen, Switzerland

- CP24 **HOW TO OPTIMIZE THE RT TREATMENT OF THE INTERNAL MAMMARY LYMPH NODES (IMN) IN BREAST CANCER PATIENT: A CASE REPORT**
Valli M.C.¹, Pesce G.¹, Martucci F.¹, Fozza A.¹, Giovanella L.³, Suriano S.³, Nicolini G.², Fogliata A.², Vanetti E.², Clivio A.², Richetti A.¹, ¹IOSI, Rad-Onc, ²Med Phys & ³Nuc Med, Bellinzona CH
- CP25 **LONG-TERM POST-TREATMENT MR AND PET/CT IMAGING IN PROSTATE CANCER PATIENTS IN COMPLETE REMISSION AFTER CURATIVE RADIOTHERAPY: THE IMAGE OF CURE**
Vees H.¹, Buchegger F.², Khan H.G.³, Wissmeyer M.², Steiner Ch.², Seimbille Y.², Ratib O.², Miralbell R.^{1,4}, ¹Department of Radiation Oncology and ²Department of Nuclear Medicine, University Hospital, Geneva, ³Institute of Radiology Jean Violette, Geneva, ⁴Centro Médico Teknon, Barcelona, Spain
- CP26 **INTENSITY MODULATED RADIOTHERAPY AFTER EXTRAPLEURAL PNEUMONECTOMY IN PATIENTS WITH MALIGNANT PLEURAL MESOTHELIOMA**
Dimmerling P., Zwahlen D.R., Kraysenbühl, Glanzmann C., Studer G., Ciernik I.F., Riesterer O., Division of Radiation Oncology and the Center for Clinical Research, University Hospital Zurich, Switzerland
- CP27 **TREATMENT OF BRAIN METASTASES (BM) FROM SOLID TUMORS BY WHOLE BRAIN RADIOTHERAPY (WBRT) AND SIMULTANEOUS INTEGRATED BOOST (SIB), WITH RAPIDARC**
Martucci F., Richetti A., Clivio A., Vanetti E., Nicolini G., Valli M.C., Fogliata A., Cozzi L. and Pesce G., Radiotherapy Dept. and Medical Physics, IOSI, Bellinzona CH
- CP28 **PALLIATION WITH RADIOTHERAPY AND VERTEBROPLASTY FOR CANCER PATIENTS WITH VERTEBRAL METASTASES**
Koch S.M.¹, Steinauer K.¹, Lippuner T.¹, Schoch E.G.², Binkert C.A.², Meier U.R.¹, ¹Radiation Oncology Department, KS Winterthur, ²Radiology, Department KS Winterthur
- CP29 **A NEW TOTAL BODY IRRADIATION (TBI) SCHEDULE FOR CENTRAL NERVOUS SYSTEM (CNS) POSITIVE CHILDREN WITH ACUTE LEUKEMIA**
Papachristofilou A., Menz R., Zimmermann F., Radiation Oncology, University Hospital Basel

- CP30 **RADIO-CHEMIO TREATMENT OF PRE-OPERATIVE RECTAL CANCER WITH VOLUMETRIC MODULATED ARC THERAPY: EARLY CLINICAL EXPERIENCE**
Richetti A., Clivio A., Fogliata A., Nicolini G., Pesce G.F., Salati E., Vanetti E., Cozzi L., Oncology Institute of Southern Switzerland, Radiation-Oncology, Dept and Medical Physics, Bellinzona, Switzerland
- CP31 **RHEUMATOID DISEASE: SIGNIFICANCE IN MODERN RADIATION THERAPY**
Takacs I., Eberle B., Bodis S., Department of Radiation Oncology, Canton Hospital Aarau
- CP32 **HIGH DOSE CONFORMAL THERAPY TO THE PROSTATE: IS A RECTAL BALLOON MORE IMPORTANT THAN IMRT?**
Takacs I., Schoenmaker E., Bodis S., Department Radiation oncology, Canton Hospital Aarau
- CP33 **SURVEY ON ANAL CANAL CANCER TREATMENT PATTERNS IN SWISS RADIATION ONCOLOGY CENTRES**
Winkler J., Zimmermann F., University Hospital Basel, Institute of Radiation Oncology
- CP34 **NEOADJUVANT IRRADIATION IN LOCALLY ADVANCED RECTAL CANCER WITH SIMULTANEOUS ADMINISTRATION OF CAPECITABINE AND OXALIPLATIN**
Winkler J.¹, Zipp L.¹, Knoblich J.², Zimmermann F.¹,
¹University Hospital Basel, Institute of Radiation Oncology,
²Oncological practice, Lörrach
- CP35 **CASE REPORT: EMERGENCY SURGERY DUE TO SEVERE HAEMORRHAGING DURING PREOPERATIVE RADIOCHEMOTHERAPY**
Meister A., Evtouchenko L., Bodis S., KSA, Radio-Onkologie
- CP36 **LOCALIZED PROSTATE CANCER DEFINITIVE TREATMENTS WITH RAPIDARC: EARLY CLINICAL EXPERIENCE**
Pesce G., Salati E., Clivio A., Cozzi L., Martucci F., Nicolini G., Richetti A., Valli M.C., Vanetti E., Fogliata A., IOSI, Oncology, Institute of Southern Switzerland, Radiation Oncology and Medical Physics, Bellinzona, Switzerland

- CP37 **THE USE OF A NOVEL DEVELOPED MONOBLOC PROSTHESIS DURING RADIATION THERAPY**
Böhler F.K.¹, Koller G.², Lechner C.², Köhnke R.², Ploder O.², Elsässer W.³, de Vries A.¹,¹Radiooncology,
²Maxillofacial Surgery, ³Head Neck Surgery,
Landeskrankenhaus Feldkirch, Austria
- CP38 **INTENSITY MODULATED RADIOTHERAPY (IMRT) IN THE TREATMENT OF CERVICAL CANCER PATIENTS – OUR EXPERIENCE**
Cihoric N.¹, Trajkovic G.², Aebersold D.M.¹, Loessl K.¹,
¹Radiation Oncology, Inselspital, Bern University Hospital
²Institute for medical statistics and informatics Belgrade
- CP39 **CASE REPORT: ATYPICAL TERATOID RHABDOID TUMOR (AT/RT) OF THE PINEALIS GLAND**
Müller-Beffa L., Di Lenardo F., Thum P., LUKS Lucerne, Radiation Oncology, Switzerland
- CP40 **PRIMARY DIFFUSE MULTINODULAR LEPTOMENINGEAL GLIOMATOSIS (PDLG) - A RARE CASE**
Thum P.¹, Zenklusen H.R.², Zander T.³, Kothbauer K.⁴, LUKS Lucerne, Switzerland, ¹Radiation Oncology,
²Pathology, ³Medical Oncology, ⁴Neurosurgery
- CP41 **POST CHEMO-IRRADIATION INSUFFICIENCY PELVIC FRACTURE**
Bashar Y.¹, Zimmerli B.², Notter M.¹, HNE. Service de Radiothérapie et ²Oncologie, La Chaux-de-Fonds, Switzerland
- CP42 **IMAGE GUIDED HYPERTHERMIA & REIRRADIATION IN RECURRENT BREAST CANCER**
Notter M., Germond J.F., HNE Service de Radiothérapie, La Chaux-de-Fonds

Physics

- PP01 **COMPARISON OF TWO DOSIMETRIC PHANTOMS FOR QUALITY ASSURANCE OF RAPIDARC**
Vetterli D., Blumer D., Fix M.K., Frauchiger D., Schulte A.-C., Born E.J., Mini R., Manser P., Division of Medical Radiation Physics, Inselspital and University of Berne, Switzerland

Posters: Biology – Clinics - Physics

- PP02 **IMRT VERIFICATION WITH DELTA4: DO THE ACCEPTANCE CRITERIA NEED REVISION?**
Schoenmaker E.S., Fajak E., Rafael M., Bodis S., Lutters G., Kantonsspital Aarau, Institut für Radio Onkologie, Switzerland
- PP03 **18 MONTHS EXPERIENCE OF FILMLESS PATIENT'S DQA ON TOMOTHERAPY UNITS**
Vallet V., Pisaturo O., Pachoud M., Do H.P., Joosten A., Schombourg K., Mattei S., Bochud F., Moeckli R., Institute of Radiation Physics (IRA), University Hospital Center and University of Lausanne, Switzerland
- PP04 **LOCALIZATION OF MOVING TUMOURS USING GATED PORTAL IMAGING**
Gantert M., Bodis S., Lutters G., Kantonsspital Aarau, Institut für Radio Onkologie, Switzerland
- PP05 **RAPIDARC AND IMRT FOR MALIGNANT PLEURAL MESOTHELIOMA: COMPARISON AND FEASIBILITY STUDY**
Scorsetti M.¹, Bignardi M.¹, Clivio A.², Cozzi L.², Fogliata A.², Lattuada P.¹, Mancosu P.¹, Navarria P.¹, Nicolini G.², Urso G.¹, Vanetti E.², Vigorito S.¹, Santoro A.¹, ¹Istituto Clinico Humanitas, Radio-Oncology, Rozzano, Italy, ²IOSI, Medical Physics, Bellinzona, Switzerland
- PP06 **WHOLE ABDOMEN RT IN OVARIAN CANCERS: COMPARISON BETWEEN IMRT AND RAPIDARC**
Jamema S.V.¹, Mahantshetty U.¹, Goel V.¹, Engineer R.¹, Deshpande D.¹, Sarin R.¹, Cozzi L.², Fogliata A.², Nicolini G.², Vanetti E.², Clivio A.², Shrivastava S.¹, ¹Tata Memorial Hospital, Radio-Oncology, Mumbai, India, ²IOSI, Medical Physics, Bellinzona, Switzerland
- PP07 **INFLUENCE OF THE METAL ARTEFACTS ON PROTON DOSE DISTRIBUTIONS**
Bolsi A.¹, Albertini F.¹, Amelio D.², Lomax A.¹, Schneider R.¹, ¹Center for Proton Therapy Paul Scherrer Institute Villigen AG, Switzerland, ²ATreP, Agenzia Provinciale per la Protonterapia, Trento, Italy

Friday April 16, 2010

Parallel Program: Radiation Technologists

- 12:15 – 14:00 **Registration**
- 12:45 – 13:45 **Poster viewing, lunch symposium and industrial exhibition**
- 14:00 – 14:15 **Opening ceremony**
Roberto Mini, Congress president
Daniel Aebersold, President of SASRO
- 14:15 – 15:00 **Radiation Technologists I**
Chairpersons: U. Dechantsreiter, S. Weissbaum
Proffered paper session (12 min + 3 min discussion)
-
- 14:15 (RT01) **A COMPARISON BETWEEN INDIVIDUAL AND STANDARD HEAD SUPPORTS**
Lederer L., Lomax T., Hartmann M., PSI, Center for Proton Therapy, Switzerland
- 14:30 (RT02) **EXACTRAC AN IMAGING DEVICE FOR STEREOTACTIC IRRADIATION**
Wessels C., Reist M., Aebersold D.M., Department of Radio-Oncology, Inselspital, University of Berne, Switzerland
- 14:45 (RT03) **FRAME-BASED VS. FRAMELESS MASK SYSTEM IN INTERCRANIAL STEREOTACTIC RADIATION THERAPY**
Angelmann S., Botz D., Reist M., Aebersold D.M., Department of Radio-Oncology, Inselspital, University of Berne, Switzerland
- 15:00 – 15:45 **Poster viewing and industrial exhibition**
Coffee break
- 15:45 – 17:00 **Joint Session: Psycho-Oncology**
Chairpersons: M. Scharfenberger, M. Schneeberger
D. Zwahlen, Psycho-Oncology Service, Medical Oncology, Inselspital, University of Berne, Switzerland
ANXIETY AND EMOTIONAL DISTRESS RELATED TO RADIATION THERAPY - HOW TO RECOGNIZE AND SUPPORT DISTRESSED CANCER PATIENTS
-
- 17:15 – 18:30 **SRO General assembly**

08:30 – 09:45

Radiation Technologists II

Chairpersons: B. Pastoors, L. Lederer

Proffered paper session (12 min + 3 min discussion)

08:30 (RT04)

THE DEVELOPMENT OF RAPIDARC TREATMENT IN UNIVERSITÄTSSPITAL ZÜRICH

Müller-Bennett J., Voorjans Leconte E., Winter C.,
Department of Radio-Oncology, University Hospital Zurich,
Switzerland

08:45 (RT05)

RAPIDARC RADIOTHERAPY FOR HEAD AND NECK

Dossenbach T., Hrbacek J., Krayenbühl J., Kuijpers A.,
Klöck S., University Hospital Zurich, Radio-Oncology

09:00

Invited Speaker: F. Zimmermann, Department of Radio-
Oncology, University Hospital Basel, Switzerland
**STEREOTACTIC RADIOTHERAPY – INFLUENCE OF
PATIENT POSITIONING AND FIXATION ON TREATMENT
PLANNING AND CLINICAL RESULTS**

09:45 – 10:30

**Poster viewing and industrial exhibition
Coffee break**

10:30 – 12:00

Radiation Technologists III

Chairpersons: B. Pastoors, L. Lederer

Proffered paper session (12 min + 3 min discussion)

10:30 (RT06)

THE DIFFERENT BRACHYTHERAPY

Jaberg N., Angelmann S., Ammann R., Ionescu C., Lössl T.,
Aebersold D.M., Department of Radio-Oncology, Inselspital,
University of Berne, Switzerland

10:45 (RT07)

A STEP INTO THE FOURTH DIMENSION

Harwig A., Meister A., Lutters G., Bodis S., Rabe E.,
Kantonsspital Aarau, Institute for Radio Oncology,
Switzerland

11:00

**„RADIOTHERAPEUT“ EINE CHANCE ODER EIN
RÜCKSCHRITT?**

André L., Grolimund G., Gruber G., Herlig D.

12:00 – 12:30

Closing Address

Posters

TP01

**ANFERTIGUNG EINER FRAMELESS MASKE FÜR
STEREOTAKTISCHE BESTRAHLUNG AM NOVALIS TX**

Oppliger L., Reist M., Aebersold D.M., Burkhardt C.,
Department of Radio-Oncology, Inselspital, University of
Berne, Switzerland

Friday April 16, 2010

Parallel Program: Nurses

- 08:15 – 08:45 **Registration**
- 08:45 – 09:00 **Opening ceremony**
Roberto Mini, Congress president
Daniel Aebersold, President of SASRO
- 09:00 – 09:45 **Jahresversammlung IG RO**
- 09:45 – 10:15 **Registration**
Poster viewing and industrial exhibition
Coffee break
- 10:15 – 12:45 **Nurses I**
Chairpersons: M. Scharfenberger, M. Schneeberger

- 10:15 (NU01) **NOVALIS: FEATURES AND APPLICATIONS**
Weissbaum S., Blumstein N., Department of Radio-Oncology, Inselspital, University of Berne, Switzerland
- 11:15 **Invited Speaker: U. Wolf**, Institute of Complementary Medicine, University of Berne, Switzerland
COMPLEMENTARY THERAPIES
- 11:45 (NU02) **THE ROLE OF THE BREAST CARE NURSE IN RADIATION ONCOLOGY**
Biedermann M., Breast and Tumor Centre, Frauenklinik, Inselspital, University of Berne, Switzerland
- 12:15 (NU03) **PREVENTING VAGINAL DAMAGE AFTER PELVIS RADIATION**
Kobel B., Department of Radio-Oncology, Inselspital, University of Berne, Switzerland
- 12:45 – 14:15 **Poster viewing, lunch break and industrial exhibition**
- 12:45 – 13:45 **Lunch symposium and industrial exhibition**
- 14:15 – 15:15 **Nurses II**
Chairpersons: M. Scharfenberger, M. Schneeberger

- 14:15 (NU04) **DEVELOPEMENT AND IMPLEMENTATION OF NURSING STANDARDS: NURSING AND INFORMING H&N PATIENTS DURING RADIOCHEMOTHERAPY**
Koller S., Werner B., Clinic for Radio-Oncology, Kantonsspital St. Gallen, Switzerland

Friday April 16, 2010

Parallel Program: Nurses

- 14:45 (NU05) **BODY IMAGE – BODY IMAGE DISORDERS**
Sommer K., Bernese Cancer League, Switzerland
- 15:15 – 15:45 **Poster viewing and industrial exhibition**
Coffee break
- 15:45 – 17:00 **Joint Session: Psycho-Oncology**
Chairpersons: M. Scharfenberger, M. Schneeberger
D. Zwahlen, Psycho-Oncology Service, Medical Oncology, Inselspital, University of Berne, Switzerland
ANXIETY AND EMOTIONAL DISTRESS RELATED TO RADIATION THERAPY - HOW TO RECOGNIZE AND SUPPORT DISTRESSED CANCER PATIENTS
- 17:15 – 18:30 **SRO General assembly**