

SUBJECT INDEX

2005

RADIODIAGNOSIS

Techniques/Subspecialties

Radiography
 Ultrasound
 MRI
 CT
 Interventional radiology
 Angiography
 Nuclear Medicine
 Paediatric radiology
 Oncology
 Breast
 Statistics
 PET

Genitourinary tract

General urinary tract
 Paediatric urinary tract
 Gynaecology
 Obstetrics
 Male genital system
 Interventional procedures

Central nervous system

Congenital
 Traumatic
 Neoplastic
 Metabolic
 Inflammatory
 Infective
 Sellar/supersellar
 Cranial nerve
 CSF pathways
 Hind brain/cerebellum

Head and neck

Orbits
 Pituitary
 Dental
 Sinuses
 Ear, nose and throat

Respiratory tract

Cardiovascular system

Acquired heart disease
 Congenital heart disease
 Great vessels
 Peripheral arterial system
 Peripheral venous system
 Lymphatic system

Skeletal

Congenital
 Trauma
 Tumour
 Metabolic/endocrine
 Haemopoetic
 Infection
 Spine
 Joints
 Bone densitometry

Digestive system

Salivary glands
 Pharynx/oesophagus
 Stomach
 Small intestine
 Colon and rectum
 Biliary
 Liver
 Pancreas

Soft tissues

Endocrine system

Thyroid
 Parathyroid
 Adrenals

Mediastinum

Contrast media

Contrast mechanisms
 Contrast administration techniques
 Novel contrast agents
 Side effects/toxicity

Clinical audit and management

Radiological history

PHYSICS AND TECHNOLOGY

Diagnostic radiology physics

Conventional
 CT
 Dental
 Mammography
 Image processing/perception/quality/
 image analysis
 PACS/image handling/3D
 QA/protection
 Dose calculation/measurement/
 instrumentation
 Bone densitometry
 Detectors

Radiotherapy physics

Photon therapy
 Electron therapy
 Brachytherapy
 Heavy particle therapy/equipment
 Equipment/linear accelerators
 Conformal therapy/multileaf/
 portal imaging
 Radiotherapy imaging/simulation
 Radionuclide therapy
 Treatment planning/dose computation
 QA/protection
 Dose measurement/calibration/
 instrumentation

Nuclear medicine

Radioisotope production/
 radiopharmaceuticals
 Equipment/gamma camera/PET/

SPECT

In vitro measurements
 QA/protection
 Dosimetry/calibration/instrumentation
 Modelling/image processing

Ultrasound

Doppler
 Instrumentation/QA
 Therapy/safety

Non-ionizing radiation

Radiofrequency
 Light/PUVA

Magnetic resonance

Instrumentation/imaging
 QA/protection
 Spectroscopy

Novel techniques

RADIOTHERAPY AND ONCOLOGY

Clinical systems

Head and neck
 Skin
 Gynaecology
 Genitourinary
 Gastrointestinal
 Lung
 Breast
 Leukaemia
 Myeloma
 Hodgkin's lymphoma
 Non-Hodgkin's lymphoma
 Paediatric tumours
 Neuro-oncology
 Thyroid
 Testicular
 Sarcoma
 Others
 Benign conditions

Clinical radiotherapy

External beam
 3D treatment planning/normal
 tissue sparing
 Conformal therapy/dose escalation
 Real time portal imaging
 Total body irradiation
 Brachytherapy
 Isotope therapy
 Altered fractionation
 Palliative radiotherapy
 Particle therapy
 Toxicity and symptom management
 Others

Chemotherapy

Radiosensitization
 Combined chemoradiation

INDEX TO SUBJECT—CONTINUED

- Endocrine therapy*
- Biological modifier*
- Clinical trials*
Multicentre trials
Computerized data collection
Statistics
Ethics
Informed consent
- Supportive care and quality of life*
Psychological medicine
Rehabilitation
Pain control
Cosmesis
- Aetiology*
- Prevention*
Screening
Education
Industrial risk
Environmental risk
- Clinical management and audit*
- Novel and combined treatment modalities*
Hyperthermia
Radiation/chemotherapy
Antitoxicity therapies/biological modifiers
Photodynamic therapy
- Boron neutron capture therapy
- General*
- RADIOBIOLOGY**
- Basic radiation/chemical interactions*
Chemical solutions
Subcellular organelles
Membranes
DNA
Others
- Effects of radiation quality*
Studies *in vitro*
Studies *in vivo*
- Biological basis of radiological protection*
Carcinogenesis
In utero effects
Genetic effects
Deterministic effects
Risk estimates
Occupational and medical exposures
- Radiobiology as applied to radiotherapy*
Normal tissue toxicity
Early tissue effects
Late tissue effects
Tumour models
Dose fractionation
- Dose rate
Sensitizers
Protectors
Oxygen effect
Therapeutic ratio
Cell proliferation
- Mathematical models*
Dose fractionation/dose rate
Tumour proliferation kinetics
- Novel and combined treatment modalities*
Hyperthermia
Radiation/chemotherapy
Antitoxicity therapies/biological modifiers
Photodynamic therapy
Others
Hypothermia
Boron neutron capture therapy
- EDUCATION**
- COMMENTARIES**
- EDITORIALS**
- BOOK REVIEWS**
- INFORMATION FOR AUTHORS**

RADIODIAGNOSIS

Techniques/Subspecialties

Radiography

- Dose implications of fluoroscopy guided positioning (FGP) for lumbar spine examinations prior to acquiring plain film radiographs, 125
- The rapidly enlarging chin mass, (Case of the month), 175
- Small cell carcinoma of the colon: barium study and CT findings, (Case report), 255
- Comparison of full-field digital mammography and film-screen mammography: image quality and lesion detection, 312
- Normal radiographic anatomy of thoracic structures: analysis of 1000 chest radiographs in the Japanese population, 398
- Transient failure of opening of the lower oesophageal sphincter on upright oesophagrams: radiographic and clinical findings, 411
- Differences in bone mineral density and geometry in men and women: the Newcastle Thousand Families Study at 50 years old, 493
- The costs and effects of introducing selectively trained radiographers to an A&E reporting service: a retrospective controlled before and after study, 499
- Acute ureteric calculus obstruction: unenhanced spiral CT versus HASTE MR urography and abdominal radiograph, 506

- The effect of introducing radiographer reporting on the availability of reports for Accident and Emergency and General Practitioner examinations: a time-series analysis, (Short communication), 538
- Ergonomics of digital imaging, (Review), 582
- Emergency management and infection control in a radiology department during an outbreak of severe acute respiratory syndrome, 606
- Radiological associations of dermatological disease, (Pictorial review), 662
- Imaging of diffuse metastatic and dystrophic pulmonary calcification in children after haematopoietic stem cell transplantation, 708
- Post-portoenterostomy triangular cord sign prognostic value in biliary atresia: a prospective study, 884
- Coracoid tip position on frontal radiographs of the shoulder: a predictor of common shoulder pathologies?, 1005
- Phase contrast X-ray imaging of mice and rabbit lungs: a comparative study, 1018

Ultrasound

- Enlarged mesenteric lymph nodes in asymptomatic children: the value of the finding in various imaging modalities, 30
- Training in neonatal cranial ultrasound: a questionnaire survey, (Short communication), 55
- Uterine lipoma: advantage of MRI over ultrasound, (Case report), 72

- Neck masses in children, (Pictorial review), 75
- Spatial mapping of the brachial plexus using three-dimensional ultrasound, (Short communication), 87
- Technical report: use of ultrasound guidance in the removal of tunnelled venous access catheter cuffs, (Short communication), 147
- Visceral leishmaniasis: diagnosis by ultrasound-guided fine needle aspiration of an axillary node, (Case report), 158
- Ultrasound findings of iodide mumps, (Case report), 164
- Ultrasound-guided drainage of breast abscesses: results in 151 patients, 186
- Ultrasound evaluation of the fibrosis stage in chronic liver disease by the simultaneous use of low and high frequency probes, 189
- Abnormal hepatic vein Doppler waveform in patients without liver disease, (Short communication), 242
- Colour Doppler ultrasound mapping of chest wall lesions, 303
- Three-dimensional anal endosonography may improve diagnostic confidence of detecting damage to the anal sphincter complex, 308
- The reverse target sign in liver disease: a potential ultrasound feature in cirrhotic liver nodules characterization, (Case report), 355
- Diseases of the submandibular gland as demonstrated using high resolution ultrasound, (Pictorial review), 362
- Accuracy of transvaginal ultrasound in diagnosing endometrial pathology in women with post-menopausal bleeding on tamoxifen, 394
- Role of ultrasound in dengue fever, 416
- Colonic muco-submucosal elongated polyp: diagnosis with endoscopic ultrasound, 419
- Hepatic transit time: indicator of the therapeutic response to radiofrequency ablation of liver tumours, (Short communication), 433
- Imaging of pelvic injuries in athletes, (Pictorial review), 457
- Real-time blood-pool images of contrast-enhanced ultrasound with Definity in the detection of tumour nodules in the liver, 512
- Benign external compression of the inferior vena cava associated with thrombus formation, (Case report), 553
- Solitary fibrous tumour of the epididymis: MRI features, (Case report), 565
- 3D reconstruction of the skeletal anatomy of the normal neonatal foot using 3D ultrasound, 587
- Incidental finding on abdominal CT scan, (Case of the month), 675
- Differentiation of focal nodular hyperplasia and hepatocellular adenoma by contrast enhanced ultrasound, 704
- Portal and systemic venous gas in a patient after lumbar puncture, (Case report), 767
- A patient with acute abdominal pain and a peritoneal mass on ultrasound and multidetector CT, (Case of the month), 771
- Hepatic angiomyolipoma: identification of an efferent vessel to be hepatic vein by contrast-enhanced harmonic ultrasound, (Case report), 956
- Is carotid duplex scanning sufficient as the sole investigation prior to carotid endarterectomy?, (Short communication), 1034
- The varied appearance of atypical liver metastasis from carcinoma of the breast, (Pictorial review), 1098
- risk for hepatic metastatic disease, (Commentary), 103
- Comparison of hepatic perfusion index measured with gadolinium-enhanced volumetric MRI in controls and in patients with colorectal cancer, 105
- Magnetic resonance coronary angiography with 3D True-FISP: breath-hold versus respiratory gated, 116
- Xanthoma disseminatum: a case report and literature review, (Case report), 153
- MR colonography: baseline appearance of the unprepared rectosigmoid, 202
- Techniques and trouble-shooting in high spatial resolution thin slice MRI for rectal cancer, (Short communication), 245
- Pilomatrix carcinoma of the axilla: CT and MRI features, (Case report), 257
- Pseudocyst rupture into the portal vein diagnosed with MRI, (Case report), 265
- Whispering enigma, (Case of the month), 283
- Perioperative monitoring of flow and patency in native and grafted internal mammary arteries using a combined MR protocol, 292
- A comparison of fast MRI of hips with and without parallel imaging using SENSE, 299
- Comparison between 1 T MRI and non-MRI based volumetry in inoculated tumours in mice, (Short communication), 338
- MRI and CT findings of cryptococcal vaginitis, (Case report), 353
- EBM and the diagnosis of hepatocellular carcinoma, (Correspondence), 370
- Authors' reply, (Correspondence), 371
- Hepatic transit time: indicator of the therapeutic response to radiofrequency ablation of liver tumours, (Short communication), 433
- Pericardial rupture and cardiac herniation after blunt trauma: a case diagnosed using cardiac MRI, (Case report), 447
- Imaging of pelvic injuries in athletes, (Pictorial review), 457
- Acute ureteric calculus obstruction: unenhanced spiral CT versus HASTE MR urography and abdominal radiograph, 506
- Differentiation between solitary brain metastasis and high grade glioma by diffusion tensor imaging, 533
- Cystic adenomyosis with florid glandular differentiation mimicking ovarian malignancy, (Case report), 558
- Solitary fibrous tumour of the epididymis: MRI features, (Case report), 565
- Bilateral absence of the internal carotid artery: MR angiography and ultrasound findings, (Case report), 569
- Seizures following bone marrow transplantation, (Case of the month), 575
- Basal cell adenoma of the parotid gland: dynamic CT and MRI findings, (Case report), 642
- CT and MRI appearances of inflammatory pseudotumour of the cervical lymph nodes, (Case report), 651
- Anomalous pancreaticobiliary junction (APBJ) with the drainage of the uncinat process into the minor papilla: demonstration by MRI, (Case report), 655
- Internal carotid artery dissection presenting with ipsilateral tenth and twelfth nerve palsies and apparent mass lesion on MRI, (Case report), 659
- Radiological characterization of spinocerebellar ataxia type 6, 694
- MR imaging features of endometriosis at the umbilicus, (Case report), 755
- Quantitative analysis of lung and tumour mobility: comparison of two time-resolved MRI sequences, (Short communication), 836
- Is magnetic resonance cholangiopancreatography the new gold standard in biliary imaging?, 888

MRI

- Rectus abdominis endometriosis: a report of two cases, (Case report), 68
- Uterine lipoma: advantage of MRI over ultrasound, (Case report), 72
- Imaging investigation of liver haemodynamics in patients at

A comparison of MR cholangiopancreatography at 1.5 and 3.0 Tesla, 894

CT, MRI and gallium SPECT in the diagnosis and treatment of petrous apicitis presenting as multiple cranial neuropathies, (Case report), 948

Hepatic angiomyolipoma: identification of an efferent vessel to be hepatic vein by contrast-enhanced harmonic ultrasound, (Case report), 956

MR angiography of aberrant left subclavian artery arising from right-sided thoracic aortic arch, (Case report), 961

Glioblastoma multiforme with atypical diffusion-weighted MR findings, 989

Chasing "chasing the dragon" with MRI: leukoencephalopathy in drug abuse, 997

Pseudotumoural hemisphericitis: imaging findings in two cases, 1042

Parametrial invasion in carcinoma of the cervix: the role of MRI measured tumour volume, 1075

The varied appearance of atypical liver metastasis from carcinoma of the breast, (Pictorial review), 1098

MRI appearances of fibrous dysplasia, (Pictorial review), 1104

Hepatic perfusion index measured using MRI and scintigraphy, (Correspondence), 1118

Author's reply, (Correspondence), 1119

CT

Enlarged mesenteric lymph nodes in asymptomatic children: the value of the finding in various imaging modalities, 30

Effect of the introduction of helical CT on radiation dose in the investigation of pulmonary embolism, 46

False negative 16 detector multislice CT for scaphoid fracture, (Case report), 57

Renal replacement lipomatosis associated with renal transplantation, (Case report), 60

Renal cell carcinoma vertebral body metastasis extending into the azygous venous system causing superior vena cava obstruction, (Case report), 65

Neck masses in children, (Pictorial review), 75

Acute neck swelling, (Case of the month), 89

Renal artery pseudoaneurysm following partial nephrectomy treated with stent-graft, (Case report), 161

Ultrasound findings of iodide mumps, (Case report), 164

Radiological findings of primary retroperitoneal synovial sarcoma, (Case report), 166

Commonly encountered adrenal pseudotumours on CT, (Pictorial review), 170

The rapidly enlarging chin mass, (Case of the month), 175

A comparative study of evaluation of radiographs, CT and 3D reformatted CT in facial trauma: what is the role of 3D?, 198

Small cell carcinoma of the colon: barium study and CT findings, (Case report), 255

Pilomatrix carcinoma of the axilla: CT and MRI features, (Case report), 257

Erythropoietin-producing renal cell carcinoma arising from autosomal dominant polycystic kidney disease, (Case report), 269

MRI and CT findings of cryptococcal vaginitis, (Case report), 353

An unusual cause of rectal bleeding, (Case of the month), 373

Hepatic transit time: indicator of the therapeutic response to radiofrequency ablation of liver tumours, (Short communication), 433

Solid-pseudopapillary tumour of the pancreas associated with dorsal agenesis, (Case report), 441

Bilateral multilocular cystic nephromas: a rare occurrence, (Case report), 450

Acute ureteric calculus obstruction: unenhanced spiral CT

versus HASTE MR urography and abdominal radiograph, 506

Benign external compression of the inferior vena cava associated with thrombus formation, (Case report), 553

Duodenal diverticulum mimicking a cystic pancreatic neoplasm, (Case report), 562

Basal cell adenoma of the parotid gland: dynamic CT and MRI findings, (Case report), 642

Acute subdural haematoma without subarachnoid haemorrhage caused by rupture of an internal carotid artery bifurcation aneurysm: case report and review of the literature, (Case report), 646

CT and MRI appearances of inflammatory pseudotumour of the cervical lymph nodes, (Case report), 651

Invasive pulmonary aspergillosis: frequency and meaning of the "hypodense sign" on unenhanced CT, 697

Imaging of diffuse metastatic and dystrophic pulmonary calcification in children after haematopoietic stem cell transplantation, 708

Fatal acute exacerbation of usual interstitial pneumonia in ulcerative colitis, (Case report), 762

Portal and systemic venous gas in a patient after lumbar puncture, (Case report), 767

A patient with acute abdominal pain and a peritoneal mass on ultrasound and multidetector CT, (Case of the month), 771

Rhodococcus equi pneumonia in AIDS: high-resolution CT findings in five patients, 783

CT assessment of tracheal carinal angle and its determinants, 787

16 detector multislice CT versus skeletal scintigraphy in the diagnosis of wrist fractures: value of quantification of ^{99m}Tc-MDP uptake, 791

Congenital internal hernia as a cause of small bowel obstruction: CT findings in 11 adult patients, 796

Rosai-Dorfman disease: unusual cause of diffuse and massive retroperitoneal lymphadenopathy, (Case report), 845

Intrathoracic gossypiboma: radiographic and CT findings, (Case report), 851

CT halo sign: the spectrum of pulmonary diseases, (Pictorial review), 862

Patient dose reduction in CT, (Commentary), 880

CT, MRI and gallium SPECT in the diagnosis and treatment of petrous apicitis presenting as multiple cranial neuropathies, (Case report), 948

Hepatic angiomyolipoma: identification of an efferent vessel to be hepatic vein by contrast-enhanced harmonic ultrasound, (Case report), 956

Pseudocyst formation: a rare complication of wandering spleen, (Case report), 1050

Combined sphenoid and frontal sinus aplasia accompanied by bilateral maxillary and ethmoid sinus hypoplasia, (Case report), 1053

Something old and something new?, (Case of the month), 1063

Volume rendering of three-dimensional drip infusion CT cholangiography in patients with suspected obstructive biliary disease: a retrospective study, 1078

The varied appearance of atypical liver metastasis from carcinoma of the breast, (Pictorial review), 1098

Author's reply, (Correspondence), 1119

Interventional radiology

Endovascular repair of a ruptured abdominal aortic aneurysm under local anaesthesia, (Case report), 62

Effective doses in angiography and interventional radiology: calculation of conversion coefficients for angiography of the lower limbs, 135

Technical report: use of ultrasound guidance in the removal

- of tunnelled venous access catheter cuffs, (Short communication), 147
- Renal artery pseudoaneurysm following partial nephrectomy treated with stent-graft, (Case report), 156
- Ultrasound-guided drainage of breast abscesses: results in 151 patients, 161
- Successful treatment of a chronic post-traumatic 5 year old osteoporotic vertebral compression fracture by percutaneous vertebroplasty, (Case report), 261
- Papillary necrosis causing hydronephrosis in renal allograft: treated by percutaneous retrieval of sloughed papilla, (Case report), 346
- Hepatic artery pseudoaneurysm after liver transplantation: definitive treatment with a stent-graft after failed coil embolisation, (Case report), 453
- Incidence of upper limb venous thrombosis associated with peripherally inserted central catheters, 596
- Ultrasound-guided catheter removal, (Correspondence), 770
- Skin dose alarm levels in cardiac angiography procedures: is a single DAP value sufficient?, 803
- CT, MRI and gallium SPECT in the diagnosis and treatment of petrous apicitis presenting as multiple cranial neuropathies, (Case report), 948

Angiography

- Endovascular repair of a ruptured abdominal aortic aneurysm under local anaesthesia, (Case report), 62
- Effective doses in angiography and interventional radiology: calculation of conversion coefficients for angiography of the lower limbs, 135
- Bilateral absence of the internal carotid artery: MR angiography and ultrasound findings, (Case report), 569

Nuclear medicine

- The role of somatostatin receptor scintigraphy in patients with pituitary adenoma or post-surgical recurrent tumours, 110
- The absent kidney in ⁹⁹Tc^m-MAG3 renogram: a dramatic reversible consequence of contrast nephrotoxicity superimposed on renal obstruction, (Case report), 349
- Limited ARSAC licence acquisition for radionuclide radiology, (Short communication), 631
- Diagnosis of ectopic gastric mucosa using ⁹⁹Tc^m-pertechnetate: spectrum of scintigraphic findings, 714
- 16 detector multislice CT versus skeletal scintigraphy in the diagnosis of wrist fractures: value of quantification of ⁹⁹Tc^m-MDP uptake, 791
- CT, MRI and gallium SPECT in the diagnosis and treatment of petrous apicitis presenting as multiple cranial neuropathies, (Case report), 948
- Adrenal and renal metastases from follicular thyroid cancer, (Case report), 1038
- Hepatic perfusion index measured using MRI and scintigraphy, (Correspondence), 1118

Paediatric radiology

- Radiation risk and cost-benefit analysis of a paediatric radiology procedure: results from a national study, 34
- Training in neonatal cranial ultrasound: a questionnaire survey, (Short communication), 55
- A comparison of fast MRI of hips with and without parallel imaging using SENSE, 299

- Pulmonary blastoma: presentation of two atypical cases and review of the literature, (Case report), 437
- Bilateral multilocular cystic nephromas: a rare occurrence, (Case report), 450
- Bilateral absence of the internal carotid artery: MR angiography and ultrasound findings, (Case report), 569
- Imaging of diffuse metastatic and dystrophic pulmonary calcification in children after haematopoietic stem cell transplantation, 708
- A 7-year-old female with hypotonia and ataxia, (Case of the month), 869
- Post-portoenterostomy triangular cord sign prognostic value in biliary atresia: a prospective study, 884

Oncology

- Imaging investigation of liver haemodynamics in patients at risk for hepatic metastatic disease, (Commentary), 103
- Techniques and trouble-shooting in high spatial resolution thin slice MRI for rectal cancer, (Short communication), 245
- Small cell carcinoma of the colon: barium study and CT findings, (Case report), 255
- Pilomatix carcinoma of the axilla: CT and MRI features, (Case report), 257
- Erythropoietin-producing renal cell carcinoma arising from autosomal dominant polycystic kidney disease, (Case report), 269
- Non-infectious manifestations of stem cell transplantation: a review, (Pictorial review), 272
- Hepatic transit time: indicator of the therapeutic response to radiofrequency ablation of liver tumours, (Short communication), 433
- Pulmonary blastoma: presentation of two atypical cases and review of the literature, (Case report), 437
- Myoepithelial carcinoma of the breast: a case report with imaging and pathological findings, (Case report), 444
- Breast or chest? A diagnostic conundrum, (Case of the month), 471
- Real-time blood-pool images of contrast-enhanced ultrasound with Definity in the detection of tumour nodules in the liver, 512
- Pulmonary benign metastasising leiomyomas presenting as fluid-containing masses on CT in a patient with two unrelated malignancies, (Case report), 639
- The emerging role of medical radiologists in new drug discovery, (Correspondence), 1058
- The varied appearance of atypical liver metastasis from carcinoma of the breast, (Pictorial review), 1098
- Author's reply, (Correspondence), 1119

Breast

- Ultrasound-guided drainage of breast abscesses: results in 151 patients, 186
- Comparison of full-field digital mammography and film-screen mammography: image quality and lesion detection, 312
- In vivo* absorbed dose measurements in mammography using a new real-time luminescence technique, 328
- Myoepithelial carcinoma of the breast: a case report with imaging and pathological findings, (Case report), 444
- A printed image quality test phantom for mammography, (Short communication), 746
- Breast dose from magnification films in mammography, 816
- Optical transillumination spectroscopy to quantify parenchymal tissue density: an indicator for breast cancer risk, 1009
- The varied appearance of atypical liver metastasis from carcinoma of the breast, (Pictorial review), 1098

PET

- An ovary in luteal phase mimicking common iliac lymph node metastasis from a primary cutaneous peripheral primitive neuroectodermal tumour as revealed by 18-fluoro-2-deoxyglucose positron emission tomography, (Case report), 343
- Gluteal injection site granulomas: false positive finding on FDG-PET in patients with non-small cell lung cancer, (Case report), 758
- Hepatocellular carcinoma tumour thrombus in a recanalised para-umbilical vein: detection by 18-fluoro-2-deoxyglucose positron emission tomography imaging, (Case report), 841

Genitourinary tract

General urinary tract

- Renal replacement lipomatosis associated with renal transplantation, (Case report), 60
- Renal cell carcinoma vertebral body metastasis extending into the azygous venous system causing superior vena cava obstruction, (Case report), 65
- Erythropoietin-producing renal cell carcinoma arising from autosomal dominant polycystic kidney disease, (Case report), 269
- Papillary necrosis causing hydronephrosis in renal allograft: treated by percutaneous retrieval of sloughed papilla, (Case report), 346
- Acute ureteric calculus obstruction: unenhanced spiral CT versus HASTE MR urography and abdominal radiograph, 506
- Incidental finding on abdominal CT scan, (Case of the month), 675
- An unusual case of ureteric obstruction, (Case report), 848
- Spontaneous ureterocolic fistula secondary to calculous pyohydronephrosis, (Case report), 954

Paediatric urinary tract

- Bilateral multilocular cystic nephromas: a rare occurrence, (Case report), 450

Gynaecology

- Rectus abdominis endometriosis: a report of two cases, (Case report), 68
- Uterine lipoma: advantage of MRI over ultrasound, (Case report), 72
- An ovary in luteal phase mimicking common iliac lymph node metastasis from a primary cutaneous peripheral primitive neuroectodermal tumour as revealed by 18-fluoro-2-deoxyglucose positron emission tomography, (Case report), 343
- MRI and CT findings of cryptococcal vaginitis, (Case report), 353
- Accuracy of transvaginal ultrasound in diagnosing endometrial pathology in women with post-menopausal bleeding on tamoxifen, 394
- Cystic adenomyosis with florid glandular differentiation mimicking ovarian malignancy, (Case report), 558
- Pulmonary benign metastasising leiomyomas presenting as fluid-containing masses on CT in a patient with two unrelated malignancies, (Case report), 639
- MR imaging features of endometriosis at the umbilicus, (Case report), 755
- Two cases of uterine septum with intrauterine device, (Case report), 952
- Parametrial invasion in carcinoma of the cervix: the role of MRI measured tumour volume, 1075

Male genital system

- Solitary fibrous tumour of the epididymis: MRI features, (Case report), 565

Interventional procedures

- Papillary necrosis causing hydronephrosis in renal allograft: treated by percutaneous retrieval of sloughed papilla, (Case report), 346

Central nervous system

- Training in neonatal cranial ultrasound: a questionnaire survey, (Short communication), 55
- The role of somatostatin receptor scintigraphy in patients with pituitary adenoma or post-surgical recurrent tumours, 110
- Whispering enigma, (Case of the month), 283
- Bilateral absence of the internal carotid artery: MR angiography and ultrasound findings, (Case report), 569
- Seizures following bone marrow transplantation, (Case of the month), 575
- Internal carotid artery dissection presenting with ipsilateral tenth and twelfth nerve palsies and apparent mass lesion on MRI, (Case report), 659
- Radiological characterization of spinocerebellar ataxia type 7, 694
- A 7-year-old female with hypotonia and ataxia, (Case of the month), 869
- CT, MRI and gallium SPECT in the diagnosis and treatment of petrous apicitis presenting as multiple cranial neuropathies, (Case report), 948
- A pressing case of transient blindness, (Case of the month), 967
- Chasing "chasing the dragon" with MRI: leukoencephalopathy in drug abuse, 997
- Spatial mapping of the brachial plexus using three-dimensional ultrasound, (Short communication), 1086

Traumatic

- Portal and systemic venous gas in a patient after lumbar puncture, (Case report), 767

Neoplastic

- Glioblastoma multiforme with atypical diffusion-weighted MR findings, 989

Inflammatory

- Acute subdural haematoma without subarachnoid haemorrhage caused by rupture of an internal carotid artery bifurcation aneurysm: case report and review of literature, (Case report), 646

Hind brain/cerebellum

- Pseudotumoural hemispheritis: imaging findings in two cases, 1042

Head and neck

- Neck masses in children, (Pictorial review), 75
- A comparative study of evaluation radiographs, CT and 3D reformatted CT in facial trauma: what is the role of 3D?, 198

Sinuses

Combined sphenoid and frontal sinus aplasia accompanied by bilateral maxillary and ethmoid sinus hypoplasia, (Case report), 1053

Ear, nose and throat

Acute neck swelling, (Case of the month), 87
Diseases of the submandibular gland as demonstrated using high resolution ultrasound, (Pictorial review), 362
Basal cell adenoma of the parotid gland: dynamic CT and MRI findings, (Case report), 642

Respiratory tract

Effect of the introduction of helical CT on radiation dose in the investigation of pulmonary embolism, 46
Normal radiographic anatomy of thoracic structures: analysis of 1000 chest radiographs in the Japanese population, 398
Investigation of optimum energies for chest imaging using film-screen and computed radiography, 423
Breast or chest? A diagnostic conundrum, (Case of the month), 471
Emergency management and infection control in a radiology department during an outbreak of severe acute respiratory syndrome, 606
Invasive pulmonary aspergillosis: frequency and meaning of the "hypodense sign" on unenhanced CT, 697
Fatal acute exacerbation of usual interstitial pneumonia in ulcerative colitis, (Case report), 762
Rhodococcus equi pneumonia in AIDS: high-resolution CT findings in five patients, 783
CT assessment of tracheal carinal angle and its determinants, 787
Quantitative analysis of lung and tumour mobility: comparison of two time-resolved MRI sequences, (Short communication), 836
Intrathoracic gossypiboma: radiographic and CT findings, (Case report), 851
Incidental localized (solitary) mediastinal malignant mesothelioma, (Case report), 858
CT halo sign: the spectrum of pulmonary diseases, (Pictorial review), 862
Comparison of a digital flat-panel versus screen-film, photofluorography and storage-phosphor systems by detection of simulated lung adenocarcinoma lesions using hard copy images, 922
Phase contrast X-ray imaging of mice and rabbit lungs: a comparative study, 1018

Cardiovascular system

Acquired heart disease

Magnetic resonance coronary angiography with 3D True-FISP: breath-hold versus respiratory gated, 116
Pericardial rupture and cardiac herniation after blunt trauma: a case diagnosed using cardiac MRI, (Case report), 447

Great vessels

Radiation exposure in stent-grafting of abdominal aortic aneurysms, 906
MR angiography of aberrant left subclavian artery arising from right-sided thoracic aortic arch, (Case report), 961

Peripheral arterial system

Protein C and/or S deficiency presenting as peripheral arterial insufficiency, 601

Internal carotid artery dissection presenting with ipsilateral tenth and twelfth nerve palsies and apparent mass lesion on MRI, (Case report), 659

Is carotid duplex scanning sufficient as the sole investigation prior to carotid endarterectomy?, (Short communication), 1034

Something old and something new?, (Case of the month), 1063

Peripheral venous system

Benign external compression of the inferior vena cava associated with thrombus formation, (Case report), 553

Incidence of upper limb deep vein thrombosis associated with peripherally inserted central catheters, 596

Ultrasound-guided catheter removal, (Correspondence), 770

Lymphatic system

CT and MRI appearances of inflammatory pseudotumour of the cervical lymph nodes, (Case report), 651

Rosai-Dorfman disease: unusual cause of diffuse and massive retroperitoneal lymphadenopathy, (Case report), 845

Spontaneous healing of chyle leakage after lymphangiography, (Case report), 854

Skeletal

Whispering enigma, (Case of the month), 283

Radiological associations of dermatological disease, (Pictorial review), 662

Coracoid tip position on frontal radiographs of the shoulder: a predictor of common shoulder pathologies?, 1005

Congenital

3D reconstruction of the skeletal anatomy of the normal neonatal foot using 3D ultrasound, 587

MRI appearances of fibrous dysplasia, (Pictorial review), 1104

Trauma

False negative 16 detector multislice CT for scaphoid fracture, (Case report), 57

A comparative study of evaluation radiographs, CT and 3D reformatted CT in facial trauma: what is the role of 3D?, 198

Pericardial rupture and cardiac herniation after blunt trauma: a case diagnosed using cardiac MRI, (Case report), 447

Imaging of pelvic injuries in athletes, (Pictorial review), 457

16 detector multislice CT versus skeletal scintigraphy in the diagnosis of wrist fractures: value of quantification of ^{99m}Tc-MDP uptake, 791

Tumour

The rapidly enlarging chin mass, (Case of the month), 175

Metabolic endocrine

Differences in bone mineral density and geometry in men and women: the Newcastle Thousand Families Study at 50 years old, 493

Infection

CT, MRI and gallium SPECT in the diagnosis and treatment of petrous apicitis presenting as multiple cranial neuropathies, (Case report), 948

Spine

Successful treatment of a chronic post-traumatic 5-year-old osteoporotic vertebral compression fracture by percutaneous vertebroplasty, (Case report), 261

Joints

Measurement of cartilage volumes in rheumatoid arthritis using MRI, 39

Bone densitometry

Differences in bone mineral density and geometry in men and women: the Newcastle Thousand Families Study at 50 years old, 493

Digestive system

Enlarged mesenteric lymph nodes in asymptomatic children: the value of the finding in various imaging modalities, 30

Pharynx/oesophagus

Transient failure of opening of the lower oesophageal sphincter on upright oesophagrams: radiographic and clinical findings, 411

Stomach

Diagnosis of ectopic gastric mucosa using $^{99}\text{Tc}^{\text{m}}$ -pertechnetate: spectrum of scintigraphic findings, 714

Small intestine

Duodenal diverticulum mimicking a cystic pancreatic neoplasm, (Case report), 562

Congenital internal hernia as a cause of small bowel obstruction: CT findings in 11 adult patients, 796

Colon and rectum

Incidental lesions found on CT colonography: their nature and frequency, (Commentary), 20

Incidental lesions found on CT colonography: their nature and frequency, 22

MR colonography: baseline appearance of the unprepared rectosigmoid, 202

Three-dimensional anal endosonography may improve diagnostic confidence of detecting damage to the anal sphincter complex, 308

An unusual cause of rectal bleeding, (Case of the month), 373

Colonic muco-submucosal elongated polyp: diagnosis with endoscopic ultrasound, 419

Fatal acute exacerbation of usual interstitial pneumonia in ulcerative colitis, (Case report), 762

Colo-colonic intussusception caused by a solitary Peutz-Jeghers polyp, (Case report), 1047

Biliary

Role of ultrasound in Dengue fever, 416

Post-portoenterostomy triangular cord sign prognostic value

in biliary atresia: a prospective study, 884

Is magnetic resonance cholangiopancreatography the new gold standard in biliary imaging?, 888

A comparison of MR cholangiopancreatography at 1.5 and 3.0 Tesla, 894

Volume rendering of three-dimensional drip infusion CT cholangiography in patients with suspected obstructive biliary disease: a retrospective study, 1078

Liver

Imaging investigation of liver haemodynamics in patients at risk for hepatic metastatic disease, (Commentary), 103

Comparison of hepatic perfusion index measured with gadolinium-enhanced volumetric MRI in controls and in patients with colorectal cancer, 105

Ultrasound evaluation of the fibrosis stage in chronic liver disease by the simultaneous use of low and high frequency probes, 189

Abnormal hepatic vein Doppler waveform in patients without liver disease, (Short communication), 242

The reverse target sign in liver disease: a potential ultrasound feature in cirrhotic liver nodules characterization, (Case report), 355

EBM and the diagnosis of hepatocellular carcinoma, (Correspondence), 370

Authors' reply, (Correspondence), 371

Role of ultrasound in dengue fever, 416

Hepatic transit time: indicator of the therapeutic response to radiofrequency ablation of liver tumours, (Short communication), 433

Hepatic artery pseudoaneurysm after liver transplantation: definitive treatment with a stent-graft after failed coil embolisation, (Case report), 453

Real-time blood-pool images of contrast-enhanced ultrasound with Definity in the detection of tumour nodules in the liver, 512

Differentiation of focal nodular hyperplasia and hepatocellular adenoma by contrast enhanced ultrasound, 704

Foreign body granuloma mimicking liver metastasis, (Case report), 752

Hepatocellular carcinoma tumour thrombus in a re-canalised para-umbilical vein: detection by 18-fluoro-2-deoxyglucose positron emission tomography imaging, (Case report), 841

Post-portoenterostomy triangular cord sign prognostic value in biliary atresia: a prospective study, 884

Hepatic angiomyolipoma: identification of an efferent vessel to be hepatic vein by contrast-enhanced harmonic ultrasound, (Case report), 956

Hepatosplenic sarcoidosis, (Case of the month), 1116

Hepatic perfusion index measured using MRI and scintigraphy, (Correspondence), 1118

Author's reply, (Correspondence), 1119

Pancreas

Solid-pseudopapillary tumour of the pancreas associated with dorsal agenesis, (Case report), 441

Anomalous pancreaticobiliary junction (APBJ) with the drainage of the uncinate process into the minor papilla: demonstration by MRI, (Case report), 655

The varied appearance of atypical liver metastasis from carcinoma of the breast, (Pictorial review), 1098

Soft tissues

Radiological findings of primary retroperitoneal synovial sarcoma, (Case report), 166

Colour Doppler ultrasound mapping of chest wall lesions, 303

Radiological associations of dermatological disease, (Pictorial review), 662
Pseudocyst formation: a rare complication of wandering spleen, (Case report), 1050

Endocrine system

Thyroid

Adrenal and renal metastases from follicular thyroid cancer, (Case report), 1038

Adrenals

Commonly encountered adrenal pseudotumours on CT, (Pictorial review), 165
Adrenal and renal metastases from follicular thyroid cancer, (Case report), 1038

Contrast media

Differentiation of focal nodular hyperplasia and hepatocellular adenoma by contrast enhanced ultrasound, 704
Phase contrast X-ray imaging of mice and rabbit lungs: a comparative study, 1018
Spontaneous healing of chyle leakage after lymphangiography, (Case report), 854

Contrast administration techniques

Acute serious and fatal reactions to contrast media: our current understanding, (Review), 686
Volume rendering of three-dimensional drip infusion CT cholangiography in patients with suspected obstructive biliary disease: a retrospective study, 1078

Side effects/toxicity

Ultrasound findings of iodide mumps, (Case report), 164
The absent kidney in $^{99}\text{Tc}^{\text{m}}$ -MAG3 renogram: a dramatic reversible consequence of contrast nephrotoxicity superimposed on renal obstruction, (Case report), 349
Acute serious and fatal reactions to contrast media: our current understanding, (Review), 686

Clinical audit and management

The conventional wisdom and the activities of the middle range, (Commentary), 381
The costs and effects of introducing selectively trained radiographers to an A&E reporting service: a retrospective controlled before and after study, 499
The effect of introducing radiographer reporting on the availability of reports for Accident and Emergency and General Practitioner examinations: a time-series analysis, (Short communication), 538
Ergonomics of digital imaging, (Review), 582
Emergency management and infection control in a radiology department during an outbreak of severe acute respiratory syndrome, 606
Limited ARSAC licence acquisition for radionuclide radiology, (Short communication), 631
Evidence based medicine, (Correspondence), 1119

PHYSICS AND TECHNOLOGY

Diagnostic radiology physics

CT

Effect of the introduction of helical CT on radiation dose in the investigation of pulmonary embolism, 46

The dose response of normoxic polymer gel dosimeters measured using X-ray CT, 623
Patient dose reduction in CT, (Commentary), 880

Mammography

Radiation doses received in the UK breast screening programme in 2001 and 2002, 207
In vivo absorbed dose measurements in mammography using a new real-time luminescence technique, 328
Investigation of optimum energies for chest imaging using film-screen and computed radiography, 423
A printed image quality test phantom for mammography, (Short communication), 746
Breast dose from magnification films in mammography, 816
Optical transillumination spectroscopy to quantify parenchymal tissue density: an indicator for breast cancer risk, 1009

Image processing/perception/quality/image analysis

Investigation of optimum energies for chest imaging using film-screen and computed radiography, 423
Threshold-contrast detectability curves for digital acquisition, (Correspondence), 469
Authors' reply, (Correspondence), 470
Perception research in medical imaging, (Commentary), 683
Comparison of a digital flat-panel versus screen-film, photofluorography and storage-phosphor systems by detection of simulated lung adenocarcinoma lesions using hard copy images, 922
Influence of film digitization on radiological interpretation, 993

PACS/image handling/3D

Installation of a PACS system, (Commentary), 480
Using PACS as a teaching resource, (Commentary), 483
Are you sitting comfortably?, (Editorial), 581

QA/protection

Dose implications of fluoroscopy guided positioning (FGP) for lumbar spine examinations prior to acquiring plain film radiographs, 125
A study of the distribution of dose across the hands of interventional radiologists and cardiologists, 219
A printed image quality test phantom for mammography, (Short communication), 746
A method for verified access when using soft copy display, (Short communication), 749
Options for radiation protection of the patient, (Commentary), 877
Patient dose reduction in CT, (Commentary), 880
Factors for calculating the attenuation of barium plaster, 1061

Dose calculation/measurement/instrumentation

Radiation risk and cost-benefit analysis of a paediatric radiology procedure: results from a national study, 34
Effect of the introduction of helical CT on radiation dose in the investigation of pulmonary embolism, 46
Dose implications of fluoroscopy guided positioning (FGP) for lumbar spine examinations prior to acquiring plain film radiographs, 125
Effective doses in angiography and interventional radiology: calculation of conversion coefficients for angiography of

the lower limbs, 135
Radiation doses received in the UK Breast Screening Programme in 2001 and 2002, 207
A study of the distribution of dose across the hands of interventional radiologists and cardiologists, 219
In vivo absorbed dose measurements in mammography using a new real-time luminescence technique, 328
20 years of patient dose studies: where should we go from here?, (Editorial), 477
The low energy X-ray response of the LiF:Mg:Cu:P thermoluminescent dosimeter: a comparison with LiF:Mg:Ti, 543
The dose response of normoxic polymer gel dosimeters measured using X-ray CT, 623
A local diagnostic reference level for velopharyngeal investigations, 637
Skin dose alarm levels in cardiac angiography procedures: is a single DAP value sufficient?, 803
The effect of source to image-receptor distance on effective dose for some common X-ray projections, 810
Radiation dose measurement and optimization, (Correspondence), 866
Radiation exposure in stent-grafting of abdominal aortic aneurysms, 906

Radiotherapy physics

Brachytherapy

Daytime pulsed dose rate brachytherapy as a new treatment option for previously irradiated patients with recurrent oesophageal cancer, 236

Heavy particle therapy/equipment

Particle Therapy Co-operative Oncology Group (PTCOG 40) Meeting, Institute Curie 2004, (Commentary), 99
Posterior fossa treatment, (Correspondence), 285
Author's reply, (Correspondence), 285
Modelling the expected increase in demand for particle radiotherapy: implications for the UK, 832

Equipment/linear accelerators

Stereotactic radiosurgery at St. Bartholomew's Hospital: third quinquennial review, (Review), 384
Pantak Therapax SXT 150: performance assessment and dose determination using IAEA TRS protocol, 721

Conformal therapy/multileaf/portal imaging

Stereotactic radiosurgery at St. Bartholomew's Hospital: third quinquennial review, (Review), 384
Second cancer risk, (Correspondence), 469
Effectiveness of flexible noise control image processing for digital portal images using computed radiography, 519
BJR Review of the Year 2004, (Correspondence), 672
Author's reply, (Correspondence), 673

Radiotherapy imaging/simulation

Second cancer risk, (Correspondence), 469
Effectiveness of flexible noise control image processing for digital portal images using computed radiography, 519
Comparative analyses of the dynamic properties of the bladder wall studied by repetitive CT scans of patients and cryo-sections of cadavers, 528

The use of CT-MR image registration to define target volumes in pelvic radiotherapy in the presence of bilateral hip replacements, 634
Portal imaging, (Commentary), 681

Radionuclide therapy

A case of stunning of lung and bone metastases of papillary thyroid cancer after a therapeutic dose (3.7 GBq) of ¹³¹I and review of the literature: implication for sequential treatments, 428

Treatment planning/dose computation

Automatic selection of non-coplanar beam directions for three-dimensional conformal radiotherapy, 316
Comparative analyses of the dynamic properties of the bladder wall studied by repetitive CT scans of patients and cryo-sections of cadavers, 528
Modelling of output factors for conformal megavoltage X-ray beams, 612
The use of CT-MR image registration to define target volumes in pelvic radiotherapy in the presence of bilateral hip replacements, 634
Technical note: evaluation of dosimetric performance in a commercial 3D treatment planning system, 899

Dose measurement/calibration/instrumentation

Modelling of output factors for conformal megavoltage X-ray beams, 612
The dose response of normoxic polymer gel dosimeters measured using X-ray CT, 623
Pantak Therapax SXT 150: performance assessment and dose determination using IAEA TRS protocol, 721

Nuclear medicine

Equipment/gamma camera/PET/SPECT

The effect of Butterworth and Metz reconstruction filters on volume and ejection fraction calculations with ^{99m}Tc gated myocardial SPECT, 733

Modelling/image processing

Further evidence for biological effects resulting from ionizing radiation doses in the diagnostic X-ray range, (Short communication), 335
The effect of Butterworth and Metz reconstruction filters on volume and ejection fraction calculations with ^{99m}Tc gated myocardial SPECT, 733

Ultrasound

Doppler

Hepatic angiomyolipoma: identification of an efferent vessel to be hepatic vein by contrast-enhanced harmonic ultrasound, (Case report), 956

Instrumentation/QA

In vivo validation of a novel semi-automated method for border detection in IVUS images, 117

Therapy/safety

Ultrasound exposure measurement: a hidden science?, (Editorial), 289

Non-ionizing radiation

Light/PUVA

- Optical coherence tomography, (Review), 976
Optical transillumination spectroscopy to quantify parenchymal tissue density: an indicator for breast cancer risk, 1009

Magnetic resonance

Instrumentation/imaging

- Measurement of cartilage volumes in rheumatoid arthritis using MRI, 39
Comparison between 1 T MRI and non-MRI based volumetry in inoculated tumours in mice, (Short communication), 338

QA/protection

- Electromagnetic field exposure limitation and the future of MRI, (Commentary), 973

Novel techniques

- Public service summit: science & innovation, 2004, (Commentary), 17
Optical coherence tomography, (Review), 976

RADIOTHERAPY AND ONCOLOGY

Clinical systems

Head and neck

- The risk of radiation-induced cancer in patients with squamous cell carcinoma of the head and neck and its results of treatment, 1028

Skin

- The hyfrecator: a treatment for radiation induced telangiectasia in breast cancer patients, 143

Gynaecology

- Local tumour control in women with carcinoma of the cervix treated with the addition of nitroimidazole agents to radiotherapy: a meta analysis, (Review), 777
Treatment results and prognostic analysis of radical radiotherapy for locally advanced uterine cervical cancer, 821
Parametrial invasion in carcinoma of the cervix: the role of MRI measured tumour volume, 1075

Genitourinary

- An assessment of clinically optimal gold marker length and diameter for pelvic radiotherapy verification using an amorphous silicon flat panel electronic portal imaging device, 737

Gastrointestinal

- Daytime pulsed dose rate brachytherapy as a new treatment option for previously irradiated patients with recurrent oesophageal cancer, 236
Pathological complete response following pre-operative chemoradiotherapy in rectal cancer: analysis of phase

II/III trials, 934

- Quantification and reduction of cardiac dose in radical radiotherapy for oesophageal cancer, 1069

Lung

- Re-treatment of a lung tumour using a simple intensity-modulated radiotherapy approach, (Case report), 358

Breast

- Irradiation with standard tangential breast fields in patients treated with conservative surgery and sentinel node biopsy: using three-dimensional tool to evaluate the first level coverage of the axillary nodes, 51
Setup variations in locoregional radiotherapy for breast cancer: an electronic portal imaging study, (Short communication), 742

Non-Hodgkin's lymphoma

- Management of non-Hodgkin's lymphoma of the thyroid: the Royal Marsden Hospital experience, 405

Paediatric tumours

- Helical tomotherapy for craniospinal radiation, (Case report), 548

Neuro-oncology

- Particle Therapy Co-operative Oncology Group (PTCOG 40) Meeting, Institute Curie 2006, (Commentary), 99
Treatment outcomes and prognostic factors in patients with supratentorial low-grade gliomas, 230
Selective conformal radiotherapy for arteriovenous malformation involving the spinal cord, (Case report), 252
Posterior fossa treatment, (Correspondence), 285
Author's reply, (Correspondence), 285
Stereotactic radiosurgery at St. Bartholomew's Hospital: third quinquennial review, (Review), 384
Helical tomotherapy for craniospinal radiation, (Case report), 548
A phase I trial of stereotactic external beam radiation for subfoveal choroidal neovascular membranes in age-related macular degeneration, 827
Modelling the expected increase in demand for particle radiotherapy: implications for the UK, 832
Paediatric medulloblastoma associated with poor prognosis and short volume doubling time, (Correspondence), 1059

Benign conditions

- Xanthoma disseminatum: a case report and literature review, (Case report), 153
A phase I trial of stereotactic external beam radiation for subfoveal choroidal neovascular membranes in age-related macular degeneration, 827

Clinical radiotherapy

External beam

- Irradiation with standard tangential breast fields in patients treated with conservative surgery and sentinel node biopsy: using a three-dimensional tool to evaluate the

first level coverage of the axillary nodes, 51
Treatment outcomes and prognostic factors in patients with supratentorial low-grade gliomas, 230
An assessment of clinically optimal gold marker length and diameter for pelvic radiotherapy verification using an amorphous silicon flat panel electronic portal imaging device, 737
Treatment results and prognostic analysis of radical radiotherapy for locally advanced uterine cervical cancer, 821

3D treatment planning/normal tissue sparing

Quantification and reduction of cardiac dose in radical radiotherapy for oesophageal cancer, 1069
Irradiation with standard tangential breast fields in patients treated with conservative surgery and sentinel node biopsy: using three-dimensional tool to evaluate the first level coverage of the axillary nodes, 51
Selective conformal radiotherapy for arteriovenous malformation involving the spinal cord, (Case report), 252
Re-treatment of a lung tumour using a simple intensity-modulated radiotherapy approach, (Case report), 358
Stereotactic radiosurgery at St. Bartholomew's Hospital: third quinquennial review, (Review), 384
Helical tomotherapy for craniospinal radiation, (Case report), 548
A phase I trial of stereotactic external beam radiation for subfoveal choroidal neovascular membranes in age-related macular degeneration, 827
Technical note: evaluation of dosimetric performance in a commercial 3D treatment planning system, 899

Conformal therapy/dose escalation

Second cancer risk, (Correspondence), 469
BJR Review of the Year 2005, (Correspondence), 672
Author's reply, (Correspondence), 673
An assessment of clinically optimal gold marker length and diameter for pelvic radiotherapy verification using an amorphous silicon flat panel electronic portal imaging device, 737

Real-time portal imaging

Second cancer risk, (Correspondence), 469
Portal imaging, (Commentary), 681
An assessment of clinically optimal gold marker length and diameter for pelvic radiotherapy verification using an amorphous silicon flat panel electronic portal imaging device, 737
Setup variations in locoregional radiotherapy for breast cancer: an electronic portal imaging study, (Short communication), 742

Brachytherapy

Daytime pulsed dose rate brachytherapy as a new treatment option for previously irradiated patients with recurrent oesophageal cancer, 236
Treatment results and prognostic analysis of radical radiotherapy for locally advanced cancer of the uterine cervix, 821

Isotope therapy

A case of stunning of lung and bone metastases of papillary thyroid cancer after a therapeutic dose (3.7 GBq) of ¹³¹I

and review of the literature: implication for sequential treatments, 428

Particle therapy

Particle Therapy Co-operative Oncology Group (PTCOG 40) Meeting, Institute Curie 2005, (Commentary), 99
Posterior fossa treatment, (Correspondence), 285
Author's reply, (Correspondence), 285
Modelling the expected increase in demand for particle radiotherapy: implications for the UK, 832

Toxicity and symptom management

The hyfrecator: a treatment for radiation induced telangiectasia in breast cancer patients, 143
Late effects of radiotherapy: how to assess and improve outcomes, (Short communication), 150

Chemotherapy

Radiosensitization

Local tumour control in women with carcinoma of the cervix treated with the addition of nitroimidazole agents to radiotherapy: a meta analysis, (Review), 777

Clinical trials

The conventional wisdom and the activities of the middle range, (Commentary), 381
Pathological complete response following pre-operative chemoradiotherapy in rectal cancer: analysis of phase II/III trials, 934
Evidence based medicine, (Correspondence), 1119

Supportive care and quality of life

Comesis

The hyfrecator: a treatment for radiation induced telangiectasia in breast cancer patients, 143

Clinical management and audit

The conventional wisdom and the activities of the middle range, (Commentary), 381
Evidence based medicine, (Correspondence), 1119

Novel and combined treatment modalities

Radiation/chemotherapy

Treatment results and prognostic analysis of radical radiotherapy for locally advanced cancer of the cervix, 821
Pathological complete response following pre-operative chemoradiotherapy in rectal cancer: analysis of phase II/III trials, 934
The potential for mathematical modelling in the assessment of the radiation dose equivalent of cytotoxic chemotherapy given concomitantly with radiotherapy, 939

General

Public service summit: science & innovation, 2004, (Commentary), 17
Simultaneously misleading acronyms in radiation therapy, (Correspondence), 672

RADIOBIOLOGY

Biological basis of radiological protection

Carcinogenesis

- Second cancer risk, (Correspondence), 469
BJR Review of the Year 2004, (Correspondence), 672
Author's reply, (Correspondence), 673
The risk of radiation-induced cancer in patients with squamous cell carcinoma of the head and neck and its results of treatment, 1028

Genetic effects

- Tracing radiation induced genomic instability *in vivo* in the haemopoietic cells from fetus to adult mouse, 928

Risk estimates

- Low dose radiation risk: UKRC 2004 debate, (Editorial), 1
Evidence for beneficial low level radiation effects and radiation hormesis, (UKRC 2004 debate), 3
Radiation risk is linear with dose at low doses, (UKRC 2004 debate), 8
Moderate dose rate ionizing radiation increases longevity, (UKRC 2004 debate), 11
The LNT model provides the best approach for practical implementation of radiation protection, (UKRC 2004 debate), 14
Second cancer risk, (Correspondence), 469
Moderate dose rate ionizing radiation increases longevity?, (Correspondence), 573
Abandoning linear no threshold, (Correspondence), 770
Author's reply, (Correspondence), 773
Low mortality of British radiologists, (Correspondence), 1057
Linear no-threshold dogma, 1060

Occupational and medical exposures

- Further evidence for biological effects resulting from ionizing radiation doses in the diagnostic X-ray range, (Short communication), 335
Second cancer risk, (Correspondence), 469
A survey of incidents in radiology and nuclear medicine in the West of Scotland, 913
Linear no-threshold dogma, 1060

Radiobiology as applied to radiotherapy

- Second cancer risk, (Correspondence), 469

Late tissue effects

- The risk of radiation-induced cancer in patients with squamous cell carcinoma of the head and neck and its results of treatment, 1028
Quantification and reduction of cardiac dose in radical radiotherapy for oesophageal cancer, 1069

Tumour models

- Paediatric medulloblastoma associated with poor prognosis and short volume doubling time, (Correspondence), 1059
Resazurin assay of radiation response in cultured cells, (Short communication), 945

Protectors

- Rationale for using multiple antioxidants in protecting humans against low doses of ionizing radiation, (Review), 485

Mathematical models

Dose fractionation/dose rate

- The potential for mathematical modelling in the assessment of the radiation dose equivalent of cytotoxic chemotherapy given concomitantly with radiotherapy, 939

Tumour proliferation kinetics

- The potential for mathematical modelling in the assessment of the radiation dose equivalent of cytotoxic chemotherapy given concomitantly with radiotherapy, 939
Paediatric medulloblastoma associated with poor prognosis and short volume doubling time, (Correspondence), 1059

COMMENTARIES

- Public service summit: science & innovation, 2004, 17
Incidental lesions found on CT colonography: their nature and frequency, 20
Particle Therapy Co-operative Oncology Group (PTCOG 40) Meeting, Institute Curie 2004, 99
Imaging investigation of liver haemodynamics in patients at risk for hepatic metastatic disease, 103
The conventional wisdom and the activities of the middle range, 381
Installation of a PACS system, 480
Using PACS as a teaching resource, 483
Portal imaging, 681
Perception research in medical imaging, 683
Options for radiation protection of the patient, 877
Patient dose reduction in CT, 880
Electromagnetic field exposure limitation and the future of MRI, 973

EDITORIALS

- Low dose radiation risk: UKRC 2004 debate, 1
Ultrasound exposure measurement: a hidden science?, 289
20 years of patient dose studies: where should we go from here?, 477
Are you sitting comfortably?, 581

BOOK REVIEWS

- IAEA, Safety reports series No. 21. Optimization of radiation protection in the control of occupational exposure, 86
Garel C, MRI of the fetal brain: normal development and cerebral pathologies, 86
Reeder MM (Ed.), Reeder and Felson's Gamuts in radiology (4th edn), 86
Tofts P (Ed.), Quantitative MRI of the brain. Measuring changes caused by disease, 87
Fischer U, Practical MR mammography, 87
Saha G B, Fundamentals of nuclear pharmacy, 88
IAEA, Standards and codes of practice in medical radiation dosimetry. Proceedings of an International Symposium, Vienna, 25–28 November 2002. Volumes 1–2, 177

- Hulse D A and Carrington B M, MRI manual of pelvic cancer, 282
- Kretschmann H-J and Weinrich W (Eds), Cranial neuroimaging and clinical neuroanatomy. Atlas of MR imaging and computed tomography, 282
- Schumacher R, Seaver L H and Spranger J, Fetal radiology: a diagnostic atlas, 376
- Javors BR and Wolf EL, Radiology of the postoperative GI tract, 376
- Reiser M F, Takahashi M, Modic M and Becker C R (Eds), Multislice CT (2nd Edn), 473
- Uhlenbrook D, MR imaging of the spine and spinal cord, 473
- Block B, The practice of ultrasound: a step-by-step guide to abdominal scanning, 674
- Chapman A H (Ed), Radiology and imaging of the colon, 674
- Lemmerling M and Kollias S S (Eds), Radiology of the petrous bone, 677
- Jayaraman S and Lanzl L H, Clinical radiotherapy physics, 677
- Guermazi A, Radiological imaging in hematological malignancies, 871
- Phelps M E, PET: molecular imaging and its biological applications, 871
- Maeurer J, Imaging strategies for the shoulder, 871
- Davies A M and Hodler J, Imaging of the shoulder: techniques and applications, 872
- Dick E, Francis I, Renfrew I, Young J (Ed.), Emergency radiology. Rules and tools, 872
- ICRP, ICRP publication 94 Release of patients after therapy with unsealed radionuclides, 873
- Halligan S and Fenlon H M (Eds), New techniques in gastrointestinal imaging, 873
- Adam A, Dondelinger R F and Mueller P R (Eds), Interventional radiology in cancer, 969
- Mathis J M (Ed), Image-guided spine interventions, 969
- Elgazzar A H, Orthopedic nuclear medicine, 1062
- Hofer M (Ed.), CT teaching manual (2nd edn), 1065

INFORMATION FOR AUTHORS

- Acknowledgement to referees, 91
- Index to Volume, 1121