

**Bone development**

- P001 Effect of asymmetric tension on biomechanics and metabolism of vertebral epiphyseal plate in a rodent model of scoliosis
Shuzhong Liu (Beijing, China)
- P002 A 3-year longitudinal study of skeletal effects and growth in children after kidney transplantation
Diana Swolin-Eide (Gothenburg, Sweden)
- P003 ABSTRACT WITHDRAWN
- P004 Bone mass tracks into teenage years
Maria Rønne (Odense, Denmark)
- P005 Muscular fitness, bone mineral density and hip geometry in young males: the PRO-BONE study
Esther Ubago-Guisado (Toledo, Spain)
- P006 Bone density and body composition in post-pubertal adolescents treated with GnRH analogues in a gender identity development service
Xanthippi Tseretopoulou (Leeds, UK)
- P007 Effects of a 8-month physical activity and nutrition-induced weight loss program on bone health of obese adolescents
Elodie Chaplais (Aubiere, France)
- P008 Cardiorespiratory fitness, bone mineral density and hip geometry in young males: the PRO-BONE study
Esther Ubago-Guisado (Toledo, Spain)
- P009 Sexual dimorphism in cortical bone morphology during adolescent growth in Chinese
Ka-Yee Cheuk (Shatin, Hong Kong)
- P010 Transient hyperphosphatasemia in a child with nephrolithiasis and history of severe prematurity
Stepan Kutilek (Klatovy, Czech Republic)
- P011 Neonatal hypocalcemia - transient neonatal pseudohypoparathyroidism
Stepan Kutilek (Klatovy, Czech Republic)
- P012 Determinants of bone outcomes in adolescent athletes at baseline: the PRO-BONE study
Luis Gracia-Marco (Exeter, UK)
- P013 Longitudinal evaluation of bone mass, geometry and metabolism in adolescent male athletes. The PRO-BONE study
Dimitris Vlachopoulos (Exeter, UK)
- P014 Longitudinal changes on bone mineral content and bone stiffness in adolescent male athletes: the PRO-BONE study
Dimitris Vlachopoulos (Exeter, UK)

- P015 Structural geometry of bones is prominently associated with risk of fracture in children
Carolina Medina-Gomez (Rotterdam, The Netherlands)
- P016 Necrotizing enterocolitis during the neonatal period is related to lower bone mass at 5 years of age, compared to matched controls
Amanda Magnusson (Gothenburg, Sweden)
- P017 Bone mineral density in children and adolescents with neurofibromatosis type I: mineralization during growth and pubertal development
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- P018 Preconception endurance training with voluntary exercise during pregnancy positively influences on remodeling markers in female offspring bone
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- P019 Zebrafish as model organism for craniosynostosis
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- P020 Age at onset of walking affects bone mineral content in early childhood
Saara Valkama (Espoo, Finland)
- P021 Sexual dimorphism in bone size, density, micro-architecture and strength is site-specific and manifested in favour of boys already in childhood
Hassan Vatanparast (Saskatoon, Canada)
- P022 Bone densitometric parameters and body composition in preterm and term infants at the age of forty weeks of gestational age
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- P023 Tracking differences in morphology and regulation between the spine and long bones in a pig model
Adalbert Raimann (Vienna, Austria)
- P024 Spondyloepiphyseal dysplasia: a rare cause of short stature
Elpis Vlachopapadopoulou (Athens, Greece)

Bone fragility and metabolism

- P025 The impact of haemophilia A on bone health
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- P026 Own research experience of bone tissue metabolism in patients with the Ehlers-Danlos syndrome
Yuriy Demyan (Kiev, Ukraine)
- P027 Sex and iron modify fibroblast growth factor 23 concentrations in 1-year-old children
Elisa Holmlund-Suila (Helsinki, Finland)



- P028 Osteogenesis imperfect, regarding a case
Karen Evelyn Ramos Rodríguez (Lima, Peru)
- P029 Web-based surveys using Patient-Reported Outcome Measurement Information System (PROMIS®) instruments allow documentation of important components of the disease experience among individuals with osteogenesis imperfecta
Laura Tosi (Washington, USA)
- P030 Outcomes of zoledronic acid use in paediatric conditions
Margaret Zacharin (Melbourne, Australia)
- P031 Valproic acid induces Fanconi syndrome and reversible hypophosphataemic rickets via upregulation of fibroblast growth factor 23
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- P032 Bone health status in Indian children with type 1 diabetes as assessed by peripheral quantitative computer tomography (pQCT)
Rubina Mandlik (Pune, India)
- P033 Nutritional status influence upon bone mineral density of children with cerebral palsy after reconstructive hip joint surgery
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- P034 Identification of bone remodelling alterations in Gorham-Stout disease
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- P035 ABSTRACT WITHDRAWN
- P036 Decreased incidence of fracture after IV bisphosphonates in girls with Rett syndrome and severe bone fragility
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- P037 Early fragility fractures in Zellweger syndrome spectrum – peroxisome dysfunction affecting osteogenesis?
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- P038 Hypophosphatasia associated with acute disseminated encephalomyelitis (ADEM): causal relationship or coincidence?
Benjamin Jacobs (Stanmore, UK)
- P039 Cystinosis deficiency affects bone phenotype
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- P040 Atypical femoral fractures in 2 children treated with bisphosphonates
Benjamin Jacobs (Stanmore, UK)
- P041 A randomised double-blind placebo-controlled trial of vitamin D supplementation in juvenile-onset systemic lupus erythematosus: positive effect on trabecular microarchitecture using high resolution peripheral quantitative computed tomography
Juliane Paupitz (Florianopolis, Brazil)
- P042 Osteogenesis imperfecta type VI presenting as suspected physical abuse – a report of two cases
Sivagamy Sithambaram (Sheffield, UK)
- P043 Pseudohypoparathyroidism type IB: a cause of late hypocalcemia
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- P044 ABSTRACT WITHDRAWN
- P045 ABSTRACT WITHDRAWN
- P046 A 16 years old follow up in one case of congenital multiple hormone deficiency: growth, sexual development and bone metabolism
Chiara Petrolini (Florence, Italy)
- P047 Vitamin D status before and during treatment for childhood cancer
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- P048 A rare cause of rickets
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- P049 Difficulties in diagnostics and clinical classification of osteogenesis imperfecta in Poland
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- P050 The prevalence of fragility fractures in children with cerebral palsy in Greater Manchester, UK - a cross-sectional survey
Raja Padidela (Manchester, UK)
- P051 Low bone density and fragility fractures in unbalanced translocation T(9;11)
Silvia Vai (Milano, Italy)
- P052 Hypophosphatasia - from symptom to diagnosis - case report
Izabela Michalus (Lodz, Poland)
- P053 Determinants of bone density in Duchenne muscular dystrophy
Silvia Vai (Milano, Italy)
- P054 The influence of immune dysregulation on bone metabolism in children with inflammatory bowel disease: the potential for bone as a secondary lymphoid organ
Gareth Penman (Sheffield, UK)

**Bone mineralisation disorders**

- P055** Gorham-Stout disease: radiological, histological, and clinical features of one single centre
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- P056** Conservative management of metabolic derangements in osseous tissue among patients with vitamin D-dependent rickets type 2
Stepan Martsyniak (Kyiv, Ukraine)
- P057** Zebrafish as a model for hypophosphatasia
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- P058** The relationship between maternal and child bone density in Nigerian children with and without nutritional rickets
Tom Thacher (Rochester, USA)
- P059** Retrospective evaluation of serum alkaline phosphatases (ALP) in Italian children referred to a tertiary children's hospital
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- P060** ABSTRACT WITHDRAWN
- P061** Renal tubular acidosis with an elevated urinary b-2 microglobulin in a boy presenting with sporadic hypophosphataemic rickets and intellectual disability (Dent's disease)
Justin Brown (Clayton, Australia)
- P062** Lysinuric protein intolerance presenting with short stature and osteoporosis
Gülay Karagüzel (Trabzon, Turkey)
- P063** Effects of KRN23, a fully human anti-FGF23 monoclonal antibody, on functional outcomes in children with x-linked hypophosphatemia (XLH): results from a randomized, open-label phase 2 study
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- P064** Extensive periosteal new bone formation secondary to copper deficiency in a 2 year-old boy with arterial tortuosity syndrome
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- P065** A novel form of congenital rickets due to a recurrent gain of function mutation in CYP3A4
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- P066** Unusual presentation of acquired hypophosphataemic rickets
Kebashni Thandrayen (Johannesburg, South Africa)
- P067** Mid-gestation anomaly scan cannot be relied upon for screening for severe perinatal hypophosphatasia
Amish Chinoy (Manchester, UK)

- P068** Craniosynostosis can occur in children with nutritional rickets
L Forestier-Zhang (London, UK)
- P069** Multiple fractures that begun in utero in a pre-adolescent child with low ALP levels and nephrocalcinosis: clinical approximation for the differential diagnosis of hypophosphatasia (HPP)
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- P070** The abnormally high and heterogeneous bone matrix mineralization after childhood solid organ transplantation is not further increased by bisphosphonate treatment
Nadja Fratzl-Zelman (Vienna, Austria)
- P071** In search of hypophosphatasia: a need to establish normative data for low alkaline phosphatase in pediatric population
Pawel Abramowicz (Bialystok, Poland)
- P072** Raised intracranial pressure in a boy with pycnodysostosis with open fontanelles
Zulf Mughal (Manchester, UK)
- P073** Spectrum of paediatric hypophosphataemic rickets in a tertiary centre
Emily Cottrell (Wakefield, UK)
- P074** High bone turnover markers and disturbances of bone mineral density in children with hypophosphataemic rickets
Agnieszka Rusinska (Lodz, Poland)

Diagnostics and imaging

- P075** Change in size adjusted bone parameters in eating disorders in relation to anthropometry and growth
Sheila Shepherd (Glasgow, UK)
- P076** Diagnostic criteria for differentiation of non-bacterial and tuberculous osteomyelitis
O.L. Kopchak (Kirov, Russia)
- P077** The role of bone age in the evaluation of trabecular bone score (TBS) of children and adolescents 5 to 19 years old
Miguel Angel Guagnelli (Cuauhtemoc, Mexico)
- P078** ABSTRACT WITHDRAWN
- P079** Assessment of a semi-automated software program for the identification of vertebral fractures in children
Fawaz Alqahtani (Sheffield, UK)
- P080** Bone age assessment using Greulich and Pyle and Tanner-Whitehouse methods: a systematic review
Khalaf Alshamrani (Sheffield, UK)



- P081** Bone age determination using dual-energy x-ray absorptiometry
Khalaf Alshamrani (Sheffield, UK)
- P082** Impact of age, sex, location of injury, physical activity, vitamin D and calcium intake on the injury outcome of wrist and ankle in children
Hassan A Alshamrani (Sheffield, UK)
- P083** Schmorl's node and vitamin D deficiency: cause or coincidence
Zerrin Orbak (Erzurum, Turkey)
- P084** Chronological age, height adjusted age and bone age: which of them correlates better to bone mineral density in kidney-transplant recipient children?
Miguel Angel Guagnelli (Cuauhtemoc, Mexico)
- P085** Cumulative radiation exposure from diagnostic imaging and associated lifetime cancer risk in children with osteogenesis imperfecta
Amy Thorby-Lister (Birmingham, UK)
- P086** Feasibility and reproducibility using HRpQCTII in children and adolescents
Kyla Kent (Palo Alto, USA)
- P087** Cranial synostosis and Chiari 1 malformation in x-linked hypophosphatemic rickets
Anya Rothenbuhler (Le Kremlin Bicêtre, France)
- P088** Normative data for lateral distal femur bone mineral density in children from 3 to 18 years of age using Lunar Prodigy absorptiometry
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- P089** Cross calibration of GE Lunar DPX Pro and GE Lunar iDXA
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- P090** Intra-observer precision of vertebral height measurements using spine x-rays and DXA in boys with Duchenne muscular dystrophy
S Shepherd (Glasgow, UK)
- P091** Reliability and validity of DXA based images for measurement of height in children
N Capaldi (Glasgow, UK)
- P092** Bone mineral density and quantitative ultrasound in the longitudinal monitoring of bone status in patient with neurofibromatosis type 1
Carla Caffarelli (Siena, Italy)
- P093** A boy with spondylo-epiphyseal dysplasia tarda
Gülay Karagüzel (Trabzon, Turkey)
- P094** Bone health assessment in children with thalassaemia major
Sophia Sakka (Birmingham, UK)

- P095** Legg Calvé Perthes disease and growth hormone treatment
Alina Daniela Belceanu (Iasi, Romania)
- P096** Chronic intermittent torticollis in a toddler: a rare case of axis (C2) Ewing sarcoma presentation
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- P097** Evaluation of the use of body quantitative computed tomography for the assessment of the tibia in children with neurofibromatosis 1
Alex Ireland (Manchester, UK)
- P098** Preliminary precision-error estimates of bone mineral density in children with cerebral palsy
Kevin J. Sheridan (Saint Paul, USA)
- P099** Bone strength and microarchitectural deficits in children with cystinosis
Andrew Burghardt (San Francisco, USA)

Epidemiology

- P100** Decreased bone turnover in HIV-infected children on antiretroviral therapy
Stephanie Shiao (New York, USA)
- P101** Establishing the clinical need for a dedicated service for children and adolescents with osteogenesis imperfecta in the Republic of Ireland
Ciara McDonnell (Dublin, Ireland)
- P102** Do measures of adiposity and muscle cross-sectionally predict the health of weight-bearing bones in 11-12 year old Australian children? A population-based study
Peter Simm (Melbourne, Australia)
- P103** Femoral fractures in infants - comparison of a population-based and an osteogenesis imperfecta-cohort
Hilkka Ryhänen (Turku, Finland)
- P104** Dietary calcium deficiency contributes to the causation of nutritional rickets (NR) in the United Kingdom (UK): data from the British Paediatric Surveillance Unit (BPSU) NR survey
M. Zulf Mughal (Manchester, UK)
- P105** Low serum alkaline phosphatase is often not recognised by clinicians
Daniela Peeva (Stanmore, UK)
- P106** Does growth hormone and estrogens prevent girls with Turner syndrome from increased fracture rates?
Ondrej Soucek (Prague, Czech Republic)



Genetics

- P107** A case of a novel de novo PLS3 deletion, presenting with vertebral fractures and mild dysmorphism
A. Doulgeraki (Athens, Greece)
- P108** Genetic transmission of osteogenesis imperfecta type V by a healthy mosaic carrier father
Elisabeth Steichen-Gersdorf (Innsbruck, Austria)
- P109** Microdeletion of 12p11.22-p11.21 resulting in a skeletal dysplasia characterized by significant metaphyseal abnormalities and osteolysis
Jennifer Harrington (Toronto, Canada)
- P110** Case report: a potentially new skeletal dysplasia with autosomal recessive inheritance
Caroline Lekszas (Würzburg, Germany)
- P111** Vitamin D-dependent rickets type 1 due to a novel mutation in CYP27B1
Yael Levy-Shraga (Ramat Gan, Israel)
- P112** A novel mutation of CYP27B1 in two siblings with vitamin D-dependent rickets type 1A
Zerrin Orbak (Erzurum, Turkey)
- P113** A challenging case of hyperphosphatemic tumoral calcinosis
Nathalie Alos (Montreal, Canada)
- P114** Rare copy number variants in array-based comparative genomic hybridization in early-onset skeletal fragility
Alice Costantini (Stockholm, Sweden)
- P115** Expanding the genotype-phenotype correlation of osteogenesis imperfecta with a novel mutation in Col1A2 gene
Maimoona Al Qanoobi (Dublin, Ireland)
- P116** Classical SATB2-associated syndrome with severe osteoporosis, recurrent bony fractures and tibial bowing
Benjamin Jacobs (Stanmore, UK)
- P117** Uptake of influenza vaccine in UK patients with fibrodysplasia ossificans progressiva
Nataliya Gak (London, UK)
- P118** Genome-wide association study identifies five novel genetic determinants of dental maturation
Olja Grgic (Rotterdam, The Netherlands)
- P119** Phenotypic spectrum in Weyers acrofacial dysostosis: a case report
Chiara Rubino (Florence, Italy)
- P120** Vitamin D- dependent rickets - a rare form of rickets - diagnostics and therapeutic problem
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Medical therapies

- P121** MicroRNA-30a downregulation contributes to chemoresistance of osteosarcoma cells through activating Beclin-1-mediated autophagy
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- P122** Bisphosphonate treatment initiated in the newborn period - our experience
Milan Bayer (Prague, Czech Republic)
- P123** ABSTRACT WITHDRAWN
- P124** The treatment of hyperphosphatemic familial tumoral calcinosis
Karine Khatchadourian (Ottawa, Canada)
- P125** Identification and characterization of a novel microRNA inhibiting osteoblast functions by suppressing actin polymerization
Aijaz Ahmad John (Lucknow, India)
- P126** A case of severe reaction following the use of bisphosphonates in a patient with osteogenesis imperfecta
Julie Park (Liverpool, UK)
- P127** Growth hormone treatment in two short peri-pubertal brothers with x-linked hypophosphatemic rickets
Rachel Bello Vitrial (Petah Tikva, Israel)
- P128** Growth and clinical outcome in a 16 year-old male with childhood hypophosphatasia after one year therapy with asfotase alfa
Sasigarn Bowden (Columbus, USA)
- P129** The case of severe osteoporosis in patient with recessive dystrophic epidermolysis bullosa
Nataliya Balatska (Kyiv, Ukraine)
- P130** The impact of intravenous bisphosphonate on vertebral morphometry in children with secondary osteoporosis and vertebral fractures
SC Wong (Glasgow, UK)
- P131** The treatment of Camurati-Engelmann disease with losartan: a case report
Benjamin Jacobs (Stanmore, UK)
- P132** Anti-RANKL treatment in a murine model of fibrous dysplasia
Biagio Palmisano (Rome, Italy)
- P133** Long term treatment with intravenous pamidronate in two children with severe forms of juvenile Paget's disease
Corinna Grasemann (Essen, Germany)



- P134** Improvement in spinal involvement with zoledronic acid in pediatric patients with chronic recurrent multifocal osteomyelitis: a case series
Marie-Eve Robinson (Montreal, Canada)
- P135** Continuous subcutaneous PTH infusion in autosomal dominant hypocalcaemia
Evelien Gevers (London, UK)
- P136** Preliminary results for a ramping model of pamidronate administration
Heidi H. Kecskemethy (Wilmington, USA)

Muscle and bone

- P137** Growth, bone and muscle mass are adversely affected in bone marrow transplant recipients: a body composition analysis
Artemis Doulgeraki (Athens, Greece)
- P138** Fibrodysplasia ossificans progressiva: baseline characteristics of 101 subjects participating in a global, longitudinal, natural history study
Richard Keen (Newton, USA)
- P139** Relative impact of muscle strength and muscle mass on bone mineral density in Japanese adolescents: data from the Kitakata Kids Health Study
Katsuyasu Kouda (Osaka-Sayama, Japan)
- P140** Bone mineral accretion is increased during winter and is positively related to lean mass accretion in healthy children 2-8 years
Neil Brett (Notre-Dame-de-L'ile-Perrot, Canada)
- P141** Unique correlation pattern between cortical trabecular bone qualities and standard dynamometer handgrip strength in girls with adolescent idiopathic scoliosis (AIS)?
Ka-Yee Cheuk (Shatin, Hong Kong)
- P142** Walking within 12 months of age is related to higher whole body lean mass and bone mineral density in children at 3 years of age
Hope Weiler (Ste Anne de Bellevue, Canada)
- P143** Gender differences in bone health in a cohort of adolescents with developmental coordination disorder
Aris Sifarikas (Perth, Australia)
- P144** Soft tissues, areal bone mineral density and hip geometry estimates in active young boys: the PRO-BONE study
Luis Gracia-Marco (Exeter, UK)
- P145** Longitudinal growth and bone development in glucocorticoid treated boys with Duchenne muscular dystrophy
N Capaldi (Glasgow, UK)

- P146** Stature and longitudinal growth in glucocorticoid naive boys with Duchenne muscular dystrophy
SC Wong (Glasgow, UK)
- P147** Bone health in boys with Duchenne muscular dystrophy (DMD): the dichotomy between bone density and fracture
Nicola Crabtree (Birmingham, UK)
- P148** Muscle density measurement in muscular dystrophy
Susanne Bechtold (Munich, Germany)
- P149** Exploratory analysis of bone microarchitecture, bone marrow fat and skeletal muscle metabolism in children with hypophosphatemic rickets
Adalbert Raimann (Vienna, Austria)
- P150** DXA based evaluation of the bone mass and body composition in a group of Romanian cystic fibrosis children
Carmen Gabriela Barbu (Bucharest, Romania)
- P151** Characterisation of skeletal developmental in mouse models of Duchenne muscular dystrophy
Claire Wood (Edinburgh, UK)

Nutrition

- P152** Seasonal variation in internet searches for vitamin D
Rebecca Moon (Southampton, UK)
- P153** Vitamin D intake and status in children 2-18 years: a meta-analysis
Neil Brett (Notre-Dame-de-L'ile-Perrot, Canada)
- P154** Maximal suppression of parathyroid hormone as a determinant of optimal vitamin D status in adolescents
Taryn Smith (Guildford, UK)
- P155** Dietary protein is associated with bone adaptations and performance of pre-adolescents
Theodoros Stampoulis (Xanthi, Greece)
- P156** Bone health status of underprivileged Indian adolescent girls
Rubina Mandlik (Pune, India)
- P157** Are there gender differences in abdominal fat distribution in healthy teenagers?
Justine Bacchetta (Bron, France)
- P158** Bone metabolism in girls with anorexia nervosa
Lubica Ticha (Bratislava, Slovakia)
- P159** Maternal calcium supplementation in a rural Gambian population associated with reduced blood pressure among adolescent female, but not male, offspring
Simon Schoenbuchner (Cambridge, UK)



- P160** Maternal calcium supplementation in a rural Gambian population associated with reduced height and weight among adolescent female, but not male, offspring
Simon Schoenbuchner (Cambridge, UK)
- P161** Early-life vitamin D status and bone mass at five years in a prospective birth cohort study
Carol ní Chaoimh (Cork, Ireland)
- P162** Nutritional rickets presenting to secondary care in children (<16 years)- a UK surveillance study
Priscilla Julies (London, UK)
- P163** Vitamin D insufficiency and inadequate bone mineral status in newcomer immigrant and refugee children in Canada
Ginny Lane (Saskatoon, Canada)

Orthopaedics and physical activity

- P164** Reconstruction of the tibia of children with congenital pseudarthrosis of the tibia in Russia using Ilizarov method
Ekaterina Zakharyan (Saint-Petersburg, Pushkin, Russia)
- P165** Correction of the deformities of children with congenital pseudarthrosis of tibia after achieved union
Ekaterina Zakharyan (Saint-Petersburg, Pushkin, Russia)
- P166** Deformities of the hip of children with congenital pseudarthrosis of tibia
Ekaterina Zakharyan (Saint-Petersburg, Pushkin, Russia)
- P167** Stable and functional osteosynthesis with intramedullary growing rods: results of surgical correction in eleven patients with systemic skeletal disease
Andrii Zyma (Kiev, Ukraine)
- P168** Cortico-cancellous bone allografting in treatment of children with orthopedic diseases
Leanid Hlazkin (Mogilev, Belarus)
- P169** Orthopaedic management of leg length discrepancy in Proteus syndrome: a case series
Laura Tosi (Washington, USA)
- P170** Physical activity is negatively correlated with circulating sclerostin in 6-12 year-old children
Antonis Kambas (Komotini, Greece)
- P171** Review of lower limb range of movement following intramedullary fixation in children with osteogenesis imperfecta
Caroline Marr (Sheffield, UK)

- P172** Bone health at 11-12 years, physical activity and sedentariness: a cross-sectional Australian population-based study
Peter Simm (South Yarra, Australia)
- P173** Results of surgical treatment of tibia deformity in patients with Campanaccis disease
Yurii Oliinyk (Kiev, Ukraine)
- P174** Maffucci syndrome- as an extremely rare form of Ollier disease
Inna Molnar (Kiev, Ukraine)
- P175** Management of Gorham disease in the cervicothoracic spine with mobile gravity traction and sirolimus
Paul Foster (Stanmore, UK)
- P176** System epidermal nevus with hyperkeratosis and violations of bone tissue metabolism - therapy of drug of pamidrinic acid and surgical orthopedic treatment. Case from practice
Andrii Cheverda (Kiev, Ukraine)
- P177** The elbow in type V osteogenesis imperfecta: is early functional loss related to radiographic findings?
Claire Hill (Sheffield, UK)

Other

- P178** ABSTRACT WITHDRAWN
- P179** Skeletal health of young patients with perinatal HIV infection. Experience from a reference center
A. Doulgeraki (Athens, Greece)
- P180** Non – bacterial osteomyelites associated with comorbid immune-mediated diseases: clinical-laboratory characteristic
O.L. Kopchak (Kirov, Russia)
- P181** Generalized arterial calcinosis of infancy: a case of a new mutation with central nervous system involvement and good response to bisphosphonates
Artemis Doulgeraki (Athens, Greece)
- P182** Osteonecrosis results in significant long term morbidity in patients with acute lymphoblastic leukaemia
Nadia Amin (Leeds, UK)
- P183** The treatment of severe pain in melorheostosis with daily walking program only: a case report
Aysehan Akinci (Malatya, Turkey)



- P184** Physical activity and health-related quality of life in patients with chronic non-bacterial osteomyelitis – pilot and model project in a rare inflammatory bone disease
Julia Nentwich (Würzburg, Germany)
- P185** Effects of vitamin D with calcium supplementation or zinc supplementation on the incidence of infections in school children: a randomized controlled trial
Rubina Mandlik (Pune, India)
- P186** Is cherubism a systemic disease ? Prospective study about 9 patients
Aline Joly (Paris, France)
- P187** Acroosteolysis presenting as nail resorption
Rashida Farhad Vasanwala (Singapore)
- P188** Paradoxical response of serum parathyroid hormone concentration in response to vitamin D and calcium supplementation in undernourished Indian children
Rubina Mandlik (Pune, India)
- P189** A deep phenotyping of autosomal dominant osteopetrosis type 2 (ADO2) mouse model revealed multiorgan dysfunctions
Antonio Maurizi (LAquila, Italy)
- P190** Development of an in vitro model of cancer stem cells from a rare human telangiectatic osteosarcoma
Gaia Palmi (Florence, Italy)
- P191** Juvenile hypophosphatasia presenting with short stature: a case report
Betül Ersoy (Manisa, Turkey)
- P192** Development of an osteogenesis imperfecta specific quality of life measure
Claire Hill (Sheffield, UK)
- P193** Sheffield Children's Hospital Osteogenesis Imperfecta Service: collaboration and care
Alison Seaman (Sheffield, UK)
- P194** Variable learning disability and behavioural difficulties in children with familial hypocalciuric hypercalcaemia type 3
Amish Chinoy (Manchester, UK)
- P195** Concentrated growth factor for the treatment of intrabony defects in chronic periodontitis in adolescents
Zerrin Orbak (Erzurum, Turkey)
- P196** A qualitative enquiry examining the lived experience of mothers who have children with osteogenesis imperfecta
Caroline Marr (Sheffield, UK)

- P197** Financial burden in families of children with osteogenesis imperfecta (OI)
Jennifer Harrington (Toronto, Canada)
- P198** Hearing the patient's voice: a focus group listening to child and parent experiences of living with rare bone diseases
Jill Massey (London, UK)
- P199** Validation of questionnaire for measurement of sunlight exposure in children from Pune, India
Rubina Mandlik (Pune, India)
- P200** The platform of expertise for rare diseases Paris-Sud: an innovative model for gathering reference centers and improving care for rare diseases
Alessia Usardi (Le Kremlin Bicêtre, France)
- P201** Posture cushions impact on spinal alignment in children with osteogenesis imperfecta - true or false?
Alison Seaman (Sheffield, UK)
- P202** Osteosarcoma-derived extracellular vesicles induce tumoral-like phenotypes in normal cells
Enrica Urciuoli (Rome, Italy)
- P203** Neurofibromatosis type 1(NF1) associated congenital pseudarthrosis of the tibia & fibula misdiagnosed as non-accidental injury (NAI)
M. Zulf Mughal (Manchester, UK)
- P204** Is a modified version of the Childhood Health Assessment Questionnaire (CHAQ) a useful tool to identify the level of disability in children with osteogenesis imperfecta?
Suzanne Ball (Stafford, UK)
- P205** Osteopathologies and endocrine late effects in a cohort of 102 juvenile survivors of brain tumors
Michael Schündeln (Essen, Germany)
- P206** Lysinuric protein intolerance associated with vertebral fractures and IGF-I deficiency
Emily Cottrell (Wakefield, UK)
- P207** Bone turnover in the obese children is related to gender, body composition and leptin level
Pawel Matusik (Katowice, Poland)
- P208** Social barriers and needs of children with osteogenesis imperfecta (OI): a qualitative descriptive interview-based study
Jerzy Konstantynowicz (Bialystok, Poland)
- P209** Intensive therapy – a week of multi-disciplinary intervention at Sheffield Children's Hospital. An example of goal setting and positive outcomes
Elizabeth Knowles (Sheffield, UK)



Late Breaking Abstracts

- LB2 The regulation of Smpd3 expression in skeletal tissues and its role in fracture healing
Garthiga Manickam (Saint Laurent, Canada)
- LB3 Mediating effect of muscle on the relationship of physical activity trajectories and bone outcomes: The Iowa Bone Development Study
Fátima Baptista (Lisboa, Portugal)
- LB4 Serious adverse effects of denosumab in adolescents treated for giant cell tumour of the bone: osteonecrosis of the jaw and rebound hypercalcaemia with acute kidney injury
Suma Uday (Birmingham, UK)
- LB5 Role of type III sodium/phosphate co-transporters in the responsiveness of osteoblasts to extracellular inorganic phosphate
Toshimi Michigami (Izumi, Japan)
- LB6 Altered bone metabolism in Fanconi anemia results from defective mesenchymal stem cell differentiation
Mélody Mazon (Québec, Canada)
- LB7 Musculoskeletal system in adolescents with type 1 diabetes
Klara Maratova (Prague, Czech Republic)
- LB8 Breech presentation is associated with neonatal and early childhood deficits in bone mass and size
Alex Ireland (Manchester, UK)
- LB9 The cellular immune response in children with inflammatory bowel disease may mediate their low bone mineral density: a pilot study
Gareth Penman (Sheffield, UK)
- LB10 Effects of long-term sedentary behaviour on the cortical bone mass and distribution during growth: The HAPPY bone Study
Rachel L Duckham (Burwood, Australia)
- LB11 Bone health status as measured by DXA and pQCT in Indian children with thalassemia major
Rubina Mandlik (Pune, India)
- LB12 Correlation of the first fracture time and COL1A1/2 mutations in patients with osteogenesis imperfecta
Lidiia Zhytnik (Tartu, Estonia)
- LB13 Low dose of intravenous pamidronate therapy in quadriplegic children with osteoporosis
Jieun Lee (Incheon, Republic of Korea)
- LB14 P4HB recurrent missense mutation causing Cole-Carpenter syndrome: exploring the underlying mechanism
Meena Balasubramanian (Sheffield, UK)
- LB15 Consensus paper - physiotherapy in children with OI
Dagmar Mekking (Wassenaar, The Netherlands)
- LB16 Implementing an osteoporosis disease management program: What works and what doesn't work
Kathy Williams (Claremont, USA)
- LB17 Bone health among boys with Duchenne muscular dystrophy after initiation of glucocorticoids
Joanna Yuet-ling Tung (Hong Kong)
- LB18 Occurrence of vitamin D and vitamin K deficiency in children with low-energy fractures
Michał Karpinski (Białystok, Poland)
- LB19 Selected risk factors of fractures in children - own observation
Paweł Matusik (Lodz, Poland)
- LB20 COL2A1 c.1609G>A (p.Gly537Ser) a pathogenic variant causing multiple skeletal abnormalities and severe short stature
Elpis Vlachopapadopoulou (Athens, Greece)
- LB21 Morbid obesity and respiratory failure in a child with pseudohypoparathyroidism type 1A
Yael Levy-Shraga (Ramat Gan, Israel)