March 01, 2020	Very High-Resolution Ultrasound of the Distal Median Nerve	Objective. A very high-resolution (70 MHz) ultrasound device (VHRUS) has recently been approved for use in humans.
January 01, 2020	Seventy MHz Ultrasound Detection of Early Signs Linked to the Severity, Patterns of Keratin Fragmentation, and Mechanisms of Generation of Collections and Tunnels in Hidradenitis Suppurativa	Objectives—To test the capability of 70-MHz ultrasound for detecting initial ultrasound signs of hidradenitis suppurativa (HS) linked to severity.
January 01, 2020	A Preliminary Study for Quantitative Assessment with HFUS (High- Frequency Ultrasound) of Nodular Skin Melanoma Breslow Thickness in Adults Before Surgery: Interdisciplinary Team Experience	Background: Cutaneous melanoma is one of the most severe skin diseases. Nodular mela- noma is the second melanoma subtype in order of frequency.
October 30, 2019	Performance of ultra-high-frequency ultrasound in the evaluation of skin involvement in systemic sclerosis: a preliminary report	Objective.
January 01, 2018	The Quantitative Anatomy of the Dorsal Scapholunate Interosseous Ligament	Background: The anatomy of the scapholunate interosseous ligament (SLIL) has been described qualitatively in great detail, with recognition of the dor
January 01, 2020	Skin thickness measurements for optimal intradermal injections in children	Background: In the context of precision medicine and in response to the highly needed capacity of rapid interventions towards new infectious diseases
January 01, 2020	Discovering a new anatomy: exploration of oral mucosa with ultra-high frequency ultrasound	Objectives: Ultra-high frequency ultrasound (UHFUS) is a recently developed diagnostic technique involving the use of ultrasound frequencies up to 70
September 01, 2019	The efficacy of Ultra-High Frequency Ultrasonography in the diagnosis of intraoral lesions	Objectives: The aim of the present study was to evaluate the diagnostic efficacy of ultra-high frequency ultrasound (UHFUS) imaging of intraoral soft
May 01, 2019	Radial artery remodeling following transradial percutaneous coronary intervention in men and women: insights from serial ultrahigh frequency ultrasonography	Background: Remodeling of the radial artery (RA) after transradial percutaneous coronary intervention (TRI) is under studied.
March 05, 2019	Mechanical Deformation of Human Optic Nerve Head and Peripapillary Tissue in Response to Acute IOP Elevation	PURPOSE.
March 01, 2019	Feasibility of a combination of intraoral UHFUS and CBCT in the study of peri-implantitis	Objectives: The aim of this study was to investigate the combination of intraoral ultra-high-frequency ultrasonography (UHFUS) and cone beam computed
January 31, 2019	Maternal obesity and gestational diabetes: Impact on arterial wall layer thickness and stiffness in early childhood - RADIEL study six-year follow-up	Background and aims: Gestational diabetes (GDM) and maternal obesity are linked to weight gain in childhood and an increased risk of cardiovascular di
January 01, 2019	Ultra High-frequency Ultrasonographic Imaging with 70 MHz Scanner for Visualization of the Lymphatic Vessels	Background: Identification and localization of functional lymphatic vessels are important for lymphaticovenular anastomosis.
January 01, 2019	Ultra-high-frequency Ultrasound to Assess Nerve Fascicles in Median Nerve Traumatic Neuroma	A traumatic neuroma is a major cause of persistent neuropathic pain. Diagnostic imaging tools are critical to the success of surgical treatment.
January 01, 2019	Comparison of high-frequency and ultrahigh-frequency probes in chronic inflammatory demyelinating polyneuropathy	Objectives: High-frequency ultrasound (HFUS 18–20 MHz) performed on patients with chronic inflammatory demyelinating polyneuropathy (CIDP) shows a foc

January 01, 2019	Advanced ultrasound techniques for pediatric imaging	Ultrasound has become a useful tool in the workup of pediatric patients abstract because of the highly convenient, cost-effective, and safe nature of
January 01, 2019	Advanced evaluation of hidradenitis suppurativa with ultra high frequency ultrasound: A promising tool for the diagnosis and monitoring of disease progression	Background: Hidradenitis suppurativa is a chronic inflammatory skin disease.
January 01, 2019	Intraoral Ultra High Frequency Ultrasound study of oral lichen planus: A pictorial review	Background: Ultra-High Frequency Ultrasound (UHFUS) is a recently introduced diagnostic technique involving the use of higher frequencies compared to
December 31, 2019	Diagnostic performance and utility of very high-resolution ultrasonography in diagnosing giant cell arteritis of the temporal artery	Objective: Very-high resolution US (VHRU; 55 MHz) provides improved resolution and could provide non-invasive diagnostic information in GCA of the tem
December 23, 2018	The 'ALSPAC in London' dataset: adiposity, cardiometabolic risk profiles, and the emerging arterial phenotype in young adulthood	Rising rates of adiposity in the young pose one of the greatest threats to future population burden of cardiovascular disease.
December 20, 2018	Ultrasound Characteristics of the Hair Follicles and Tracts, Sebaceous Glands, Montgomery Glands, Apocrine Glands, and Arrector Pili Muscles	Objectives—To explore the capability of very high-frequency ultrasound (US; 50–71 MHz) to detect the normal morphologic characteristics of the hair fo
December 06, 2018	Preliminary experience of the use of high-resolution skin ultrasound for the evaluation of extrathyroideal manifestations of Graves' disease and response to UVA-1 phototherapy	Graves' orbitopathy (GO) and pre-tibial mixedema (PTM) are autoimmune manifestation sharing the same etiology and histopathology, a chronic course and
November 01, 2018	Motor cortex neurovascular coupling: inputs from ultra–high-frequency ultrasound imaging in humans	OBJECTIVE Neurovascular coupling reflects the link between neural activity and changes in cerebral blood flow.
July 01, 2018	In vivo estimation of the Young's modulus in normal human dermis	Skin elastic properties change during a cutaneous disorder or in the aging process.
June 01, 2018	Ultra-high frequency ultrasound in planning capillary perforator flaps: Preliminary experience	
January 01, 2018	Ultrahigh-resolution ultrasound characterization of access site trauma and intimal hyperplasia following use of a 7F sheathless guide versus 6F sheath/guide combination for transradial artery PCI: Results of the PRAGMATIC trial	There exist limited data on the relative degree of acute injury and late healing of the radial artery after transradial artery (TRA) percutaneous coro
January 01, 2018	Intraoperative imaging of lymphatic vessel using ultra high-frequency ultrasound	
January 01, 2018	Very-High-Resolution Sonography Of Median Nerve : A Comparative Study Vs High-Resolution Sonography In Healthy Subjects	The use of ultrasound in the study of peripheral nerves dates back to the late 80s [1]; the first ultrasound studies of the median nerve (MN) affected
January 01, 2018	New findings in non-invasive imaging of cutaneous endometriosis: Dermoscopy, high-frequency ultrasound and reflectance confocal microscopy	© 2018 John Wiley & Sons A/S. Background: Cutaneous endometriosis (CE) is rare and its dermoscopic features were reported only in 3 patients.
January 01, 2018	Ultrahigh Frequency Ultrasound Imaging of the Hand: A New Diagnostic Tool for Hand Surgery	Background: Ultrasonography is a cost-effective, noninvasive, and expedient imaging modality with numerous clinical applications.
January 01, 2018	High-Frequency Micro-Ultrasound Imaging and Optical Topographic Imaging for Spinal Surgery: Initial Experiences	High frequency micro-ultrasound (μUS) transducers with central frequencies up to 50 MHz facilitate dynamic visualization of patient anatomy with minim

April 09, 2017	Clinical and biological markers of premature aging after autologous SCT in childhood cancer	The aim of this study was to analyze the prevalence of frailty and physical health limitations among long-term survivors of high-risk neuroblastoma (H
March 01, 2017	Development of an injectable pseudo-bone thermo-gel for application in small bone fractures	A pseudo-bone thermo-gel was synthesized and evaluated for its physicochemical, mechanical and rheological properties, with its application to treat s
February 01, 2017	Ultra High-frequency Ultrasound of Fascicles in the Median Nerve at the Wrist	Introduction: An ultra high-frequency (70 MHz) ultrasound device has recently been approved for human use.
January 01, 2016	Comparison of very-high-frequency ultrasound assessment of radial arterial wall layers after first and repeated transradial coronary procedures	BACKGROUND Transradial coronary procedure (TRP) traumatizes the radial artery (RA), especially resulting in changes to arterial wall morphology.
January 01, 2016	Computer-Aided Evaluation of Blood Vessel Geometry From Acoustic Images	A method for computer-aided assessment of blood vessel geometries based on shape-fitting algorithms from metric vision was evaluated.
January 01, 2016	Quantification of granuloma volume and response to treatment in cutaneous sarcoidosis using 3-dimensional high-frequency ultrasound scan	C utaneous involvement occurs in 25% to 30% of patients with sarcoidosis.1 Effective treat- ment of the disease has historically been challenging give
January 01, 2016	Ultrahigh Frequency Ultrasound Imaging of the Hand : A New Diagnostic Tool for Hand Surgery	Background: Ultrasonography is a cost-effective, noninvasive, and expedient imaging modality with numerous clinical applications.
September 06, 2016	Neonatal Arterial Morphology Is Related to Body Size in Abnormal Human Fetal GrowthCLINICAL PERSPECTIVE	BACKGROUND Restriction in fetal growth is associated with cardiovascular disease in adulthood.
July 01, 2016	Ultra high-frequency ultrasound: New capabilities for nail anatomy exploration	Recent development of ultra high-resolution ultrasound systems, with frequencies as high as 70 MHz and capabil- ity resolution as fine as 30 lm, could
February 02, 2016	The Rotterdam Radial Access Research	Background—Radial artery wall might be damaged after cannulation for cardiac catheterization.
January 01, 2015	Photoacoustic imaging of real-time oxygen changes in chronic leg ulcers after topical application of a haemoglobin spray: a pilot study	Objective: To use a non-invasive measurement of oxygen saturation in chronic leg ulcers after the application of a topical haemoglobin spray to invest
November 01, 2015	Radiotherapy-related arterial intima thickening and plaque formation in childhood cancer survivors detected with very-high resolution ultrasound during young adulthood	PURPOSE: To test intensive alkylator-based therapy in desmoplastic small round-cell tumor (DSRCT).
April 01, 2015	Feasibility and precision of transcutaneous very-high resolution ultrasound for quantification of arterial structures in human neonates – Comparison with conventional high resolution vascular ultrasound imaging	Background: Non-invasive transcutaneous very-high resolution ultrasound (VHRU, 25-55MHz) has recently been developed to quantify superficial vascular
January 01, 2014	Radial artery intima-media thickness predicts major cardiovascular events in patients with suspected coronary artery disease	AIMS: In the present study, we investigated the prognostic value of radial artery intima-media thickness (rIMT) in patients with suspected coronary ar
June 01, 2013	High-frequency micro-ultrasound for vascular access in young children--a feasibility study by the High-frequency UltraSound in Kids studY (HUSKY) group.	BACKGROUND: Cannulation of small arteries and veins in young children can be challenging.

February 22, 2013	Increased Rate of Arterial Stiffening with Obesity in Adolescents: A Five-Year Follow-Up Study	BACKGROUND: We prospectively and longitudinally determined the effects of childhood obesity on arterial stiffening and vascular wall changes.
January 14, 2013	Assessment of vascular remodeling after the Fontan procedure using a novel very high resolution ultrasound method: arterial wall thinning and venous thickening in late follow-up	The Fontan circulation is associated with an increased central venous pressure, decreased ventricular preload, and increased afterload.
January 01, 2013	The potential influence of diabetic history on peripheral blood flow in superficial skin	Vascular complication occurrence increases with the duration of diabetes.
September 01, 2012	Transcutaneous very-high resolution ultrasound for the quantification of carotid arterial intima-media thickness in children – Feasibility and comparison with conventional high resolution vascular ultrasound imaging	Objective: To study the accuracy and feasibility of very-high resolution ultrasound (VHRU, 25-55 MHz) and conventional high resolution ultrasound (HRU
March 01, 2012	High-resolution radial artery intima-media thickness and cardiovascular risk factors in patients with suspected coronary artery disease – Comparison with common carotid artery intima-media thickness	Objective: The radial artery wall structure can be measured with non-invasive very high-resolution ultrasound with great feasibility and high accuracy
January 01, 2011	Graft vasculopathy in clinical hand transplantation	Allogeneic hand transplantation is now a clinical reality.
January 01, 2011	Assessment of early radial injury after transradial coronary intervention by high-resolution ultrasound biomicroscopy: Innovative technology application	BACKGROUND: Transradial coronary intervention (TRI) introduces injury to the radial artery (RA) which will affect repeat transradial coronary procedur
December 01, 2011	Feasibility of very-high resolution ultrasound to assess elastic and muscular arterial wall morphology in adolescents attending an outpatient clinic for obesity and lipid abnormalities	Objective: Atherosclerosis begins during early life and is accelerated in individuals with cardiovascular risk factors.
November 01, 2011	Arteriovenous Fistulas for Hemodialysis: Application of High-Frequency US to Assess Vein Wall Morphology for Cannulation Readiness	To determine whether venous wall thickness and hoop (circumferential) stress, as determined with high-frequency ultrasonography (US), can predict cann
January 01, 2010	Assessment of vascular phenotype using a novel very-high-resolution ultrasound technique in adolescents after aortic coarctation repair and/or stent implantation: relationship to central haemodynamics and left ventricular mass	Objectives Coarctation of the aorta (CoA) has been associated with abnormal vascular function, increased blood pressure (BP) and premature cardiovascu
January 01, 2010	Epidermal Thickness and Biomechanical Properties of Plantar Tissues in Diabetic Foot	Diabetic foot is a common complication for people with diabetes but it is unclear whether the change is initiated from the skin surface or underneath
October 01, 2010	Transcutaneous very-high-resolution ultrasound to quantify arterial wall layers of muscular and elastic arteries: Validation of a method	Background: High-resolution ultrasound (HRU) is used to measure carotid intima-media thickness (IMT).
July 01, 2010	High-resolution ultrasound showing increased intima and media thickness of the radial artery in patients with end-stage renal disease	Objective: Although clinically relevant atherosclerosis of the upper limb arteries is rarely seen, intimal hyperplasia of the arteries may reflect glo
January 11, 2010	Thicker carotid intima layer, thinner media layer and higher intima/media ratio in women with recurrent depressive disorders: A pilot study using non-invasive high frequency ultrasound	Objectives: Growing evidence indicates that depression is an important risk factor for coronary heart disease.
January 01, 2009	Increased intima thickness of the radial artery in individuals with prehypertension and hypertension	Background: We have used a novel ultra high-frequency (55 MHz) ultrasound technique to non-invasively measure the radial arterial vessel wall and sepa
December 01, 2009	High-resolution ultrasonography of the cutaneous nerve branches in the hand and wrist	Ultrasonography can be used in the diagnosis of various neuropathies, including nerve injury.

January 01, 2009	High-Frequency Ultrasound for Evaluation of Intimal Thickness	Background: The measurement of carotid intima–medial thickness is a well-validated measure of cardiovascular risk.
May 01, 2008	Limb Stress-Rest Perfusion Imaging With Contrast Ultrasound for the Assessment of Peripheral Arterial Disease Severity	OBJECTIVES: We hypothesized that stress-rest perfusion imaging of skeletal muscle in the lower extremity with contrast-enhanced ultrasound (CEU) could
January 01, 2008	Obese children show increased intimal wall thickness and decreased pulse wave velocity	OBJECTIVE: Childhood obesity confers an increased risk of vascular changes and adult cardiovascular disease.
January 01, 2007	Increasing peripheral artery intima thickness from childhood to seniority	BACKGROUND: Using new, very high-resolution ultrasound biomicroscopy, we examined the thickness of artificial layers of silicone and intima thickness