

June 04, 2021	Overview of Ultrasound Imaging Applications in Dermatology	Complete visualization of lesions is critical for the accurate diagnosis and management of dermatological diseases.
October 16, 2020	Imaging digital arteries in systemic sclerosis by tomographic 3-dimensional ultrasound	Objective methods are needed to quantify digital artery disease in systemic sclerosis (SSc) for clinical trials of vascular therapies.
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 melanoma is the second melanoma subtype in order of frequency.
January 01, 2020	Ultra-High Frequency Ultrasound. A Promising Diagnostic Technique: Review of the Literature and Single-Center Experience	Objectives: Ultra-high frequency ultrasonography (UHFUS) is a recently introduced diagnostic technique which finds several applications in diverse cli
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
September 10, 2021	Diagnostic Imaging of A2 Pulley Injuries: A Review of the Literature	Injury to the A2 pulley is caused by high eccentric forces on the flexor-tendon-pulley system.
August 24, 2021	Usefulness of High-Frequency Ultrasonography in the Diagnosis of Melanoma: Mini Review	High-frequency equipment is characterized by ultrasound probes with frequencies of over 10 MHz.
August 09, 2021	Ultra high-frequency ultrasound with seventy-MHz transducer in hair disorders: Development of a novel noninvasive diagnostic methodology	Background: Ultra high-frequency ultrasound (uHFUS) is a recently developed diagnostic technology.
August 09, 2021	Multi-modality imaging assisted fluorescence-guided resection of glioblastoma: Case report	Introduction: Glioblastoma is a highly malignant and infiltrative brain tumor, with a median overall survival of about 15 months.
July 07, 2021	HIGH FREQUENCY ULTRASONOGRAPHY: RELIABLE TOOL TO MEASURE SKIN FIBROSIS IN SSC? A systematic literature review and additional pilot study	Objectives: To investigate the reliability of high frequency ultrasound (HFUS) in measuring skin fibrosis in systemic sclerosis (SSc).
June 21, 2021	Validation of the soft-embalmed Thiel cadaver as a high-fidelity simulator of pressure during targeted nerve injection	Introduction Although administration of regional anesthesia nerve blocks has increased during the COVID-19 pandemic, training opportunities in regiona
June 10, 2021	Spectral Shift Originating from Non-linear Ultrasonic Wave Propagation and Its Effect on Imaging Resolution	An amplitude-dependent downshift in the fundamental wave spectrum of a propagating ultrasonic pulse caused by non-linear wave propagation is described
June 04, 2021	Ultra-high-frequency ultrasound and machine learning approaches for the differential diagnosis of melanocytic lesions	Malignant melanoma (MM) is one of the most dangerous skin cancers.
March 25, 2021	Ultra high frequency ultrasonography to distinguish ganglionic from aganglionic bowel wall in Hirschsprung disease: A first report	Background/Purpose: In Hirschsprung disease (HD) surgery, confirming ganglionic bowel is essential.

March 08, 2021	Ultra-high-frequency ultrasound monitoring of plaque psoriasis during ixekizumab treatment	Background: High-frequency ultrasound (HFUS) is a non-invasive method that detects superficial skin features.
March 01, 2021	Ultra high frequency ultrasonography (UHFUS) guided minor salivary gland biopsy: A promising procedure to optimize labial salivary gland biopsy in Sjögren's syndrome	Background: Sjögren's syndrome (SS) is an autoimmune disease characterized by an inflammatory infiltrate of exocrine salivary and lachrymal glands.
March 01, 2021	Ultra-High Frequency Ultrasound (Uhfus) Applications in Sjogren Syndrome: Narrative Review and Current Concepts	Primary Sjogren's syndrome (SS) is a systemic autoimmune chronic inflammatory disease with predominant involvement of the exocrine glands, particularl
February 23, 2021	High-resolution ultrasound imaging of skin involvement in systemic sclerosis: a systematic review	To collect evidence on the application of ultrasound in skin assessment in patients with systemic sclerosis (SSc).
February 23, 2021	Ultra-high frequency ultrasound in the differential diagnosis of oral pemphigus and pemphigoid: An explorative study	Objectives: Intraoral ultra-high frequency ultrasound (UHFUS) is an emerging technique in oral medicine, due to its possibility to provide submillimet
February 23, 2021	Morphologic Features of Cutaneous T-Cell Lymphomas Using Dermoscopy and High Frequency Ultrasound	The diagnosis of cutaneous T-cell lymphomas (CTCL) is frequently delayed by a median of three years and requires the clinical evaluation of an experie
January 18, 2021	Heartbeat-induced corneal axial displacement and strain measured by high frequency ultrasound elastography in human volunteers	Purpose: The purpose of this study was to establish in vivo data acquisition and processing protocols for repeatable measurements of heartbeat-induced
January 04, 2021	Ultrasound in Sports and Occupational Dermatology	Chronic exposure to trauma, friction, or extreme conditions can generate cutaneous or ungal lesions in sports and certain occupations.
January 04, 2021	Ultra-high frequency ultrasonography of labial glands is a highly sensitive tool for the diagnosis of Sjögren's syndrome: a preliminary study.	OBJECTIVES Ultra-high frequency ultrasonography (UHFUS) has been recently introduced in oral medicine due to its ability to image small anatomical str
October 16, 2020	Clinical effectiveness and radial artery remodeling assessment via very-high-frequency ultrasound/ultra biomicroscopy after applying slender 7Fr sheath for transradial approach in left main bifurcation disease	Objective: To explore the clinical effect and radial remodeling of transradial slender 7 Fr sheath for left main bifurcation disease (LM bifurcation).
September 09, 2020	Motivational Interview to improve vascular health in Adolescents with poorly controlled type 1 Diabetes (MIAD): a randomized controlled trial	INTRODUCTION: We studied if motivational interviewing (MI) added to standard educational care (SEC) improves vascular health in adolescents with poolr
September 09, 2020	Early Arterial Intimal Thickening and Plaque Is Related with Treatment Regime and Cardiovascular Disease Risk Factors in Young Adults Following Childhood Hematopoietic Stem Cell Transplantation	The long-term vascular effects following childhood hematopoietic stem cell transplantation (HSCT) are not well characterized.
September 09, 2020	Ultrasound Imaging of Nevus Sebaceous of Jadassohn	Nevus sebaceous of Jadassohn (NSJ) is a cutaneous hamartoma commonly found in the scalp and face and more frequent in children.
May 30, 2020	Long term renal prognosis and risk for hypertension after myeloablative therapies in survivors of childhood high risk neuroblastoma: A nationwide study	Background: Patients with high-risk neuroblastoma (HR NBL) treated with myeloablative regimens are reported to be at risk for cardiovascular morbidity
April 17, 2020	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

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
January 01, 2020	Current and future applications of ultrasound imaging in peripheral nerve disorders	Neuromuscular ultrasound (NMUS) is a rapidly evolving technique used in neuromuscular medicine to provide complimentary information to standard electr
January 01, 2020	Dermatology Practical & Conceptual Delayed Tattoo Reaction From Red Dye With Overlapping Clinicopathological Features : Examination With High-Frequency Ultrasound and Line-Field Optical Coherence Tomography	Delayed tattoo reactions include a wide range of clinical presentations and overlapping forms; thus diagnosis can be challenging.
January 01, 2020	Ultra-High frequency ultrasound imaging of lymphatic channels correlates with their histological features: A step forward in lymphatic surgery	Background: Indocyanine green (ICG) lymphography gained widespread acceptance as a gold standard in lymphatic surgery, although this imaging modality
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 21, 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
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 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 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 (μ US) 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 Growth <u>CLINICAL PERSPECTIVE</u>	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 μ m, 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