

EFSUMB History of Ultrasound

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Slovakia

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01 History of Ultrasound in Slovakia

The first diagnostic use of ultrasound in Czechoslovakia is the use of an industrial flaw detector in the detection of pericardial effusion (Hůla, Plzeň, 1967). In 1968, the conference Ultrasound in Biology and Medicine (guarantor and main organizer prof. I. Hrazdira) was hold in Brno, and the idea of a professional society arose from it. It was established in July 1974 in Brno as the Section for Ultrasound in Medicine and Biology at the Czechoslovak Biological Society at the Czechoslovak Academy of Sciences. The chairman was prof. I. Hrazdira, founder of Czechoslovak ultrasonography, an internationally recognized personality, organizer of the first professional conferences dedicated to ultrasound. The members of the committee were R. Kubák, L. Hradecký, E. Čech, J. Obraz, J. Preisová and I. Riečanský.

Abdominal sonography

The first pioneers of USG included A. Kováč, M. Kubiš, P. Kleskeň, J. Bilický, P. Traubner and others. Practical experience was published by A. Kováč, J. Murín, J. Hromec, J. Bielik, J. Antalík and V. Krišlo. In the 1990s, the experiences of E. Goncalvesová, M. Szántová, Š. Hrušovský and J. Beňačka. In 1988, the monograph Abdominal ultrasonography was published by A. Kováč (reissue 1995). In 1999 it was released on the CD Atlas of color flow mapping (J. Beňačka), in 2008 the atlas Ultrasonography (E. Tvrdík, J. Beňačka). In 2020, the publication Practical Sonography (J. Beňačka) was published, devoted to all areas of sonography.

Doppler duplex sonography

In Czechoslovakia, the very first experiences with Doppler fashion were presented by several authors at the beginning of the 1990s at conferences in Olomouc (I. Hrazdira, L. Doležal, F. Záťura, J. Rozman, R. Kubák), and later in Slovakia at SSUM conferences (Slovak Society for Ultrasound in Medicine) in Cardiology I. Riečanský, G. Kamenský, in Gynecology P. Kleskeň, J. Danko, in Neurology P. Traubner, M. Brozman, in Angiology M. Kubiš, A. Mistrík, E.

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Tvrdík, in Abdominal sonography P. Dědič, E. Goncalvesová, J. Bielik, J. Beňačka. In 1999 the Atlas of color flow mapping (J. Beňačka) was published on CD, in 2005 the textbook Ultrasound examination of vessels (E. Tvrdík), in 2020 Duplex sonography of vessels (J. Beňačka).

Echocardiography

In Slovakia, the first experiences with M-mode ECHOCG were presented by I. Riečanský and I. Šimo (Bratislava, 1975). The first pioneers of ECHOCG were K. Havlínová, K. Kanáliková, M. Zatkalík, P. Šefara, J. Poništ, J. Murín, J. Mašura, G. Kamenský. L. Sabo, P. Dedič and many others. The further development of ECHOCG was taken care of by the section of non-invasive diagnostics of SKS (since 1985), many works dedicated to ECHOCG were published by Cardiology letters, the first complete textbook Practical echocardiography was published in 2021 (J. Beňačka, O. Beňačka).

02 Events and congresses



History of the Slovak Society for Ultrasound in Medicine

After the division of the Czechoslovak Socialist Republic, a preliminary committee for a new society was established, which after its establishment was a regulary member of the Slovak Medical Society. At that times it had 400 members. In 2021, the Slovak Society for Ultrasound in Medicine (SSUM) has 850 members, with own legal personality and own management.

Since 1995, SSUM has organized a multi-day scientific congress "Slovak Sonography" every two years - always in Piestany. Its contents were professional blocks of lectures and also the so-called refresh — courses (monothematically focused blocks of lectures designed to supplement education in current topics). At SSUM congresses, invited lecturers from Italy, Switzerland, Germany, Denmark, Austria, Hungary, Croatia, Romania, Poland, Macedonia, Ukraine, Russia, Belarus, Azerbaijan, Czech Republic, Pakistan, South Korea and USA have been involved. Since 1999, the conference also included a Kováč memorial lecture, for remember to the founder of Slovak sonography, prof. Alexander Kováč (deceased 1998). The lecturers have been prof. I. Hrazdíra from Brno (1999), prof. G. Harmat from Budapest (2001),

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prof. W. Jakubowski from Warsaw (2003) doc. J. Tuma from Zurich (2005), prof. I. Sporea z Timisoara (2007), prof. E. Bartels from Munich and prof. S. A. Gilani from Lahore (Pakistan, 2009), prof. G. Mathis from Rankweil (Austria, 2011), doc. F. Záťura from Olomouc (2013), doc. J. Beňačka (2015), prof. Š. Hrušovský and dr. P. Kleskeň (2017).

Professional USG conferences were held in cooperation with other professional companies in other cities in Slovakia: Nitra, Banská Bystrica, Košice, Humenné and Trenčín.

Weekend postgraduate courses have been held since 2002, 4 - 6 two-day courses each year, each with 15-30 participants (depending on interest), topics were: USG in gynecology and obstetrics, Duplex sonography of limb and neck vessels, USG of liver and bile duct, ECHOCG, Pediatric sonography, USG of uropoetic tract, Pancreas disease, Mamosonography, GIT and acute abdomen, CEUS of the liver, Musculoskeletal sonography, USG of the neck, USG of the lung and throat.

Since 1996, SSUM has been a full member of EFSUMB. Members of SSUM were also active participants on EFSUMB congresses (Tours, Lublin, Zagreb, Geneva, Prague, Timisoara, Athens, Grenada). In 2012, SSUM was the organizer of the ISMUS (International Society for Musculoskeletal Ultrasound) World Congress. The participant was, among other speakers from Europe, Asia and America, the honorary chairman of ISMUS prof. R. Graf.

On the occasion of the 40th anniversary of the use of USG in clinical practice in Slovakia, SSUM initiated the unveiling of the memorial plaque to Ch. A. Doppler in Banská Štiavnica, where he worked in 1847–1849 as a professor of mathematics and physics at the Mining and Forestry Academy. The unveiling included a workshop with lectures by doctors, naturalists and historians. Slovak mass media reported on the event, and the Christian Doppler Foundation from Salzburg also expressed interest in the event.

Another area of activity of SSUM is the creation of recommendations for USG diagnostics, the creation of technical standards for USG devices, as well as cooperation with state institutions in the creation of legislation.