





Program Book





Aplio

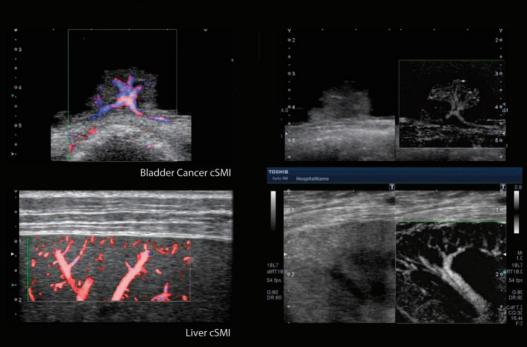
Aplio 500

'Seeing the Unseen'

SMI (Superb Micro-vascular Imaging) is

Toshiba's innovative Doppler technique to visualize the smallest vessels without Motion Artifact. This new algorithm isolates and removes clutter while preserving the underlying hemodynamic flow information.

- Exceptional sensitivity and resolution at low velocities
- High frame rates in both color and monochrome modes
- Reduction in motion artifact





Contents

- 2 Welcome Message
- 3 Organizing Committee
- 4 Program at a Glance
- 5 Scientific Program Overview
- 8 Invited Speakers
- 9 Chairpersons
- 10 Congress Information
 - 10 Floor Plan
 - 12 Registration Desk
 - 12 Registration Fee Includes
 - 12 Certificate of Attendance
 - 12 Preview Room
 - 13 Luncheon & Coffee Break
 - 13 Event Zone
 - 14 Official Programs
 - 14 Scientific Awards
 - 16 Sponsors
 - 17 Exhibition Layout
- 18 Scientific Programs
 - 18 Day 1 (Fri, 23 May)
 - 23 Day 2 (Sat, 24 May)
 - 28 Scientific Exhibition



Welcome Message





Dear colleagues and friends,

On behalf of the Korean Society of Ultrasound in Medicine (KSUM), it is our great pleasure to invite all members of KSUM as well as international colleagues to participate in the KSUM Open 2014 to be held at the Coex in Seoul, Korea from May 23 (Fri) to 24 (Sat), 2014.

The KSUM has been laying down a solid foundation for continued growth as an international scientific congress by holding the KSUM Open, the annual Congress of KSUM, with a consistently increasing number of participants and upgraded scientific programs.

KSUM Open 2014 will propose a two-day program during which the organizing committee has planned an exciting Scientific Program including Interactive Case Review, Hands on Session, and Case of the Day (Quiz), which will bring together eminent speakers and delegates from all over the world. Furthermore, a Practice Workshop Program will be organized to give helpful information to students and young doctors who will lead the future of Ultrasound Medicine. To encourage scientific activities, the organizing committee is also preparing various awards and prizes.

We are confident that KSUM Open 2014 will offer much to see, learn, and take away as long-lasting memories, and invite you to participate in this wonderful experience.

We look forward to welcoming you at KSUM Open 2014 from May 23 to 24, 2014!

Sincerely,

Hyo-Keun LIM, M.D. President, KSUM

Hyo Keun Lim

Joon Koo HAN, M.D.

Joon Koo Han

Chair, KSUM Open Organizing Committee



Organizing Committee

| Position | Name | Affiliation |
|--|------------------|--|
| President | Hyo-Keun Lim | Samsung Medical Center |
| Vice-president | Jae Young Byun | Seoul St. Mary's Hospital |
| Chair, Organizing Committee | Joon Koo Han | Seoul National University Hospital |
| Secretary General | Jae-Joon Chung | Gangnam Severance Hospital |
| Secretary | Dalmo Yang | Kyung Hee University Hospital at GangDong |
| Treasurer | Jeong Yeon Cho | Seoul National University Hospital |
| Chair, Scientific Program Committee | Boo-Kyung Han | Samsung Medical Center |
| Chair, Scientific Exhibition | Jung Hwan Baek | Asan Medical Center |
| Chair, Meet the Professor Session | Hye Won Chung | Asan Medical Center |
| Chair, Case of the Day | Dongil Choi | Samsung Medical Center |
| Chair, Interactive Case Review | Bo Kyoung Seo | Korea University Ansan Hospital |
| Chair, Hands on Session | Jae Young Lee | Seoul National University Hospital |
| Chair, Education Program | Seung Eun Jung | Seoul St. Mary's Hospital |
| Chair, Physics Program | Yangmo Yoo | Sogang University |
| Chair, Public Relation Committee | Yun Sun Choi | Eulji University Medical Center |
| Chair, Technical Exhibition Committee | Won Jae Lee | Samsung Medical Center |
| Chair, Publication Committee | Jeong- Sik Yu | Gangnam Severance Hospital |
| Chair, International Liaison Committee | Jae Young Lee | Seoul National University Hospital |
| Chair, Registration Committee | Yong Moon Shin | Asan Medical Center |
| Chair, Social Program Committee | Chang Soo Ahn | Yonsei Radiology Clinic |
| Advisory Committee | Byung Ihn Choi | Seoul National University Hospital |
| | Kyoung-Sik Cho | Asan Medical Center |
| | Young Ho Lee | Cheil General Hospital & Women's Healthcare Center |
| | Kiwhang Kim | Severance Hospital |
| | In-One Kim | Seoul National University Hospital |
| | Cheol Min Park | Korea University Guro Hospital |
| | Seung Hyup Kim | Seoul National University Hospital |
| | Hae Jeong Jeon | Konkuk University Medical Center |
| | Hak Hee Kim | Asan Medical Center |
| | Kyoo Byung Chung | Korea Association of Health Promotion |
| | Jong Tae Lee | CHA Bundang Medical Center |
| | Hyung sik Yoo | Konyang University Hospital |
| | Jae Hoon Lim | Myongji Hospital |
| | Young Tae Ko | Eulji Hospital |
| | Heoung Keun Kang | Chonnam National University Hospital |
| | Kun-Sang Kim | Korea Institute for Healthcare Accreditation |
| | Ki Keun Oh | |
| | Joo Hyeong Oh | Kyung Hee University Medical Center |
| | Hye-Kyung Yoon | Asan Medical Center |
| | Kyung Nam Ryu | Kyung Hee University Medical Center |
| | Joon-Il Choi | Seoul St. Mary's Hospital |



KSUM Open 2014 Program at a Glance

| Time | | | Day 1 May 23 (F | ri) | | | | Day 2 May 24 (S | at) | | Time |
|--------|-------------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------|-------------------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------|------------|
| 07:40 | | GBR 101 | GBR 102 | GBR 103 | Room 203 | | GBR 101 | GBR 102 | GBR 103 | Room 203 | 07:40 |
| 08:00_ | | Meet the Professor Session | Meet the Professor Session | Meet the Professor Session | | | Meet the Professor Session | Meet the Professor Session | Meet the Professor Session | | 08:00 |
| 08:30 | | (PED) | (GU) | (ABD) | | | (BR) | (MSK) | (THY) | | 08:30 |
| 1 7 | | | БК | can | | | | ы | - Car | | FI |
| 09:00 | | Categorical | Categorical | Categorical | Categorical | | Categorical | Categorical | Categorical | | 09:00 |
| 09:30 | | Course (PED) | Course (GU) | Course (ABD) | Course (PHY by KMUL) | | Course (BR) | Course (MSK) | Course (THY) | | 09:30 |
| 10:00 | | | | | | | | | | | 10:00 |
| 10:30 | | | Coffee | Break | | | | Coffee Break | | | 10:30 |
| 11:00 | | Scientific | Special Focus | Special Focus | Special Focus | | | | | | 11:00 |
| 7 | | Session (PED / GU) | Session (CEUS) | Session (ABD) | Session (PHY - | tion | Special Focus Session | Special Focus Session | Scientific Session | | FI |
| 11:30 | u | (FLD/ GO) | (CLO3) | (ADD) | Photoacoustic) | Exhibi | (BR) | (MSK) | (HN / THY) | dou | 11:30 |
| 12:00 | hibitio | | | | | chnical | | | | Norksh | 12:00 |
| 12:30 | nical E | | | | Annual Meeting of KMUL & | on & Te | Lunc | | Luncheon | 교육 Practice Workshop | 12:30 |
| 13:00_ | Registration & Technical Exhibition | Gener | al Assembly & Lur | cheon | Luncheon | Registration & Technical Exhibition | Sess (BRA | | Session (TOSHIBA) | 변 변 교 | 13:00 |
| 13:30 | stratior | | | | | Re | | | | 전 이 아 아 | 13:30 |
| 14:00 | Regi | Special Focus | Special Focus | Scientific | Invited Talk | | Scientific | Special Focus | Special Focus | 駇 | _ 14:00 |
| 14:30 | | Session (PED) | Session (GU) | Session (ABD / YIA) | (PHY) | | Session (BR / MSK) | Session (CV) | Session (HN) | | 14:30 |
| 15:00_ | | | Coffee | Rreak | | | | Coffee Break | | | 15:00 |
| 15:30 | | | Confec | Dieak | | | | Corree break | | | 15:30 |
| 16:00_ | | | | Jisan Lecture | | | Hands on Session | Categorical Course | Scientific Session | | 16:00 |
| 16:30 | | | | | | | (Fusion Imaging) | (CV) | (THY) | | 16:30 |
| 17:00_ | | | | | | | | | | | _ 17:00 |
| - | | | | Interactive Case Review | History of Ultrasound | | | | | | F |
| 17:30 | | | | | | | | | | | 17:30 |
| 18:00 | | | | | | | | | | | 18:00 |
| 18:30 | | | | | | | | | | | 18:30 |
| 19:00 | | | | | | | | | | | 19:00 |
| 19:30 | | | Congres | | | | | | | | 19:30 |
| 20:00_ | | (Place: Hall E5-6) | | | | | | | | | 20:00 |
| 20:30 | | | | | | | | | | | 20:30 |
| 21:00_ | | | | | | | | | | | 21:00 |

^{*} All sessions will be conducted in English except General Assembly and Practice Workshop (Grand Ballroom-101, 102, 103 / Room 203) 모든 세션은 영어로 진행됩니다. 단, 총회와 연수교육은 한국어로 진행됩니다.



Scientific Program Overview

Scientific Programs

- Categorical Course
- History of Ultrasound
- Jisan Lecture

- Case of the Day (Quiz)
- Interactive Case Review
- Luncheon Session
- Practice Workshop (for Residents and Trainees)
- Scientific Session
- Special Focus Session
- Hands on Session
- Invited Talk
- Meet the Professor Session
- Scientific Exhibition

Topic / Session Abbreviation

| ABD | Abdomen | CC | Categorical Course |
|-----|--------------------------|-----|----------------------------|
| BR | Breast | HS | Hands on Session |
| CV | Cardiovascular | HU | History of Ultrasound |
| GU | Genitourinary | ICR | Interactive Case Review |
| HN | Head & Neck | IT | Invited Talk |
| MSK | Musculoskeletal | JL | Jisan Lecture |
| PED | Pediatrics | LS | Luncheon Session |
| PHY | Physics | MPS | Meet the Professor Session |
| THY | Thyroid | PW | Practice Workshop |
| YIA | Young Investigator Award | SE | Scientific Exhibition |
| | | SFS | Special Focus Session |
| | | SS | Scientific Session |

Scientific Exhibition (Electronic poster display only)

| Place | Exhibition Hall, Grand Ballroom 104-105 (1F) |
|-------------|--|
| Data 0 Time | May 23 (Fri) 08:00-18:00 |
| Date & Time | May 24 (Sat) 08:00-17:00 |

Case of the Day (Quiz)

Do not miss the opportunity to be the winner of the Ultrasound Image Quiz! You may participate until 1 p.m., May 24 (Sat) only.

| Place | Scientific Exhibition Area (Exhibition Hall, Grand Ballroom 104-105, 1F) |
|-------------|--|
| | [Participation in the Quiz] |
| | May 23 (Fri) 08:00-18:00 May 24 (Sat) 08:00-13:00 |
| Date & Time | [Announcement of Winner] |
| | After 16:00, May 24 (Sat), the winner will be announced |
| | in the Scientific Exhibition Area |



Interactive Case Review

Rise up to the challenge. You may win of amazing prizes!

| Place | Grand Ballroom 103 (1F) |
|-------------|---|
| Date & Time | May 23 (Fri) 16:30-17:50 |
| Moderator | Bo Kyoung Seo (Korea University Ansan Hospital, Korea) |
| Panelist | Hyun Cheol Kim (Kyung Hee University Hospital at Gangdong, Korea) |
| | Bo Kyung Seo (Korea University Ansan Hospital, Korea) |
| | Sung Il Jung (Konkuk University Medical Center, Korea) |
| | Sun Joo Lee (Inje University Pusan Paik Hospital, Korea) |
| | Young Ah Cho (Asan Medical Center, Korea) |
| | Kwang Hwi Lee (Inje University Haeundae Paik Hospital, Korea) |

Hands on Session

A big chance to get a hands-on experience of Fusion Imaging with equipment from three companies! Those who applied for the session in advance should come up to the Grand Ballroom 101 on time.

| Place | Grand Ballroom 101 (1F) |
|-------------|--|
| Date & Time | May 24 (Sat) 15:20-17:10 |
| Moderator | Jae Young Lee (Seoul National University Hospital, Korea) |
| Instructor | Min Woo Lee (Samsung Medical Center, Korea) |
| | Jin Woong Kim (Chonnam National University Hwasun Hospital, Korea) |
| | Min Hee Lee (Soonchunhyang University Bucheon Hospital, Korea) |

Luncheon Session

Bracco Imaging Korea

| Place | Grand Ballroom 101-102 (1F) |
|-------------|--|
| Date & Time | May 24 (Sat) 12:00-13:00 |
| Chair | Byung Ihn Choi (Seoul National University Hospital, Korea) |
| Speaker | Kyung Won Kim (Asan Medical Center, Korea) |
| | Sang IL Choi (Seoul National University Bundang Hospital, Korea) |

Toshiba Medical Systems Korea Co., Ltd

| Place | Grand Ballroom 103 (1F) |
|-------------|---|
| Date & Time | May 24 (Sat) 12:00-13:00 |
| Chair | Joon Koo Han (Seoul National University Hospital, Korea) |
| Speaker | Jae Young Lee (Seoul National University Hospital, Korea) |



Instructions for Invited Speakers and Scientific Session Presenters

All invited speakers and Scientific Session presenters MUST check and submit their Power-Point presentation files in the Preview Room (on your left inside the Exhibition Hall, Grand Ballroom 104-105) at least an hour before their scheduled presentation time. This is the way we can be sure that you are present and that you are aware of any last-minute instructions or changes concerning your session. All presenters should prepare their presentation files in MS Power-Point format, and upload them onto the Preview Room computers that are connected with the session room computers.

Security Policy

All presenting files will be kept safe before and after the presentations from any access. If you do not delete your file by yourself after your presentation, it will be automatically deleted after the Congress.



Invited Speakers

| Wei Min Chai | China | Sung Il Jung | Korea | Min Woo Lee | Korea |
|------------------|--------|--------------------|-------|---------------------|-----------|
| Jin Ho Chang | Korea | Bong Joo Kang | Korea | Sun Joo Lee | Korea |
| J | | 3 | | | |
| Jung-Eun Cheon | Korea | Chulhong Kim | Korea | Sung Moon Lee | Korea |
| Hong-Jen Chiou | Taiwan | Hyun Cheol Kim | Korea | Won Jae Lee | Korea |
| Bum Sang Cho | Korea | Ji Eun Kim | Korea | Young Joon Lee | Korea |
| Eun-Suk Cho | Korea | Jin Hee Kim | Korea | Pai-Chi Li | Taiwan |
| Jeong Yeon Cho | Korea | Jin Woong Kim | Korea | Hyun Kyung Lim | Korea |
| Kil-Ho Cho | Korea | Kyung Won Kim | Korea | Eric Kin Hung Liu | Hong Kong |
| Nariya Cho | Korea | Mi-hyun Kim | Korea | Jianwen Luo | China |
| Young ah Cho | Korea | Min Ju Kim | Korea | Hee Jung Moon | Korea |
| Byung Ihn Choi | Korea | Min Jung Kim | Korea | Harvey L. Nisenbaum | USA |
| Ji Soo Choi | Korea | Sang Youn Kim | Korea | Hyun Jeong Park | Korea |
| Jung-Ah Choi | Korea | See Hyung Kim | Korea | Min Jung Park | Korea |
| Min Joo Choi | Korea | Seung Hyup Kim | Korea | Sung Bin Park | Korea |
| Sang II Choi | Korea | Sun Mi Kim | Korea | Jonathan Rubin | USA |
| Soo-Jung Choi | Korea | Kyung Won Kim | Korea | Yoshifumi Saijo | Japan |
| Young Hun Choi | Korea | You Me Kim | Korea | Bo Kyoung Seo | Korea |
| Young Jun Choi | Korea | Alexander Klibanov | USA | Sung Eun Song | Korea |
| Ki Seok Choo | Korea | Eun Sook Ko | Korea | Tai-kyong Song | Korea |
| Eun Ju Chun | Korea | Tatsuo Kono | Japan | Jin Yong Sung | Korea |
| Kyung Ah Chun | Korea | Se Hwan Kwon | Korea | Giovanni Turtulici | Italy |
| Hye Won Chung | Korea | Choong Wook Lee | Korea | Hyun Sik Woo | Korea |
| You-Bin Deng | China | Eun Sun Lee | Korea | Okhee Woo | Korea |
| Hong Eo | Korea | Ha Young Lee | Korea | Wei Yang | USA |
| Eun Ju Ha | Korea | Hee Jung Lee | Korea | Suk Keu Yeom | Korea |
| Jae Youn Hwang | Korea | Hyun Lee | Korea | Jae Hyuck Yi | Korea |
| Woo Kyoung Jeong | Korea | Jae Young Lee | Korea | Yangmo Yoo | Korea |
| ljin Joo | Korea | Jungwoo Lee | Korea | Ji Hyun Youk | Korea |
| Seung Eun Jung | Korea | Kwang Hwi Lee | Korea | Alfred Yu | Hong Kong |
| So Lyung Jung | Korea | Min Hee Lee | Korea | | |

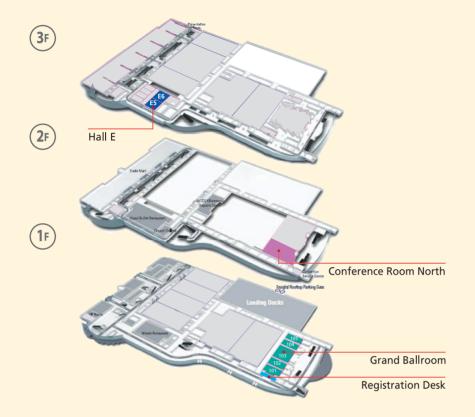


Chairpersons

| Jung Hwan Baek | Korea | Myung-Joon Kim | Korea | Woo Kyung Moon | Korea |
|-----------------|-------|----------------|-------|------------------|-------|
| Wei Min Chai | China | Seong Hyun Kim | Korea | Dong Gyu Na | Korea |
| Jin Ho Chang | Korea | Tae Hoon Kim | Korea | Young Taik Oh | Korea |
| Jeong Yeon Cho | Korea | Yongsoo Kim | Korea | Dong-guk Paeng | Korea |
| June-Sik Cho | Korea | Eun Young Ko | Korea | Jeong Seon Park | Korea |
| Kyu Ran Cho | Korea | Jin Young Kwak | Korea | Sung Eun Rha | Korea |
| Yeon Hyeon Choe | Korea | Sung-Jae Kwon | Korea | Hunkyu Ryeom | Korea |
| Byung Ihn Choi | Korea | Bae Young Lee | Korea | Jeong Ah Ryu | Korea |
| Chul Soon Choi | Korea | Hak Jong Lee | Korea | Bo Kyoung Seo | Korea |
| Hye-Young Choi | Korea | Hee Jung Lee | Korea | Sang Soo Shin | Korea |
| Hyuck Jae Choi | Korea | Jae Young Lee | Korea | Tai-kyong Song | Korea |
| Jung-Ah Choi | Korea | Jeong Hyun Lee | Korea | Mi Sook Sung | Korea |
| Kyung Ah Chun | Korea | Joon Hyung Lee | Korea | Dal Mo Yang | Korea |
| Hwan Hoon Chung | Korea | Min Hee Lee | Korea | Wei Yang | USA |
| Boo-Kyung Han | Korea | Sang Yong Lee | Korea | Yangmo Yoo | Korea |
| Joon Koo Han | Korea | Sung Moon Lee | Korea | Choon-Sik Yoon | Korea |
| Chan Kyo Kim | Korea | Won Jae Lee | Korea | Seong Kuk Yoon | Korea |
| Dong Wook Kim | Korea | Young Hen Lee | Korea | Young Cheol Yoon | Korea |
| Eun-Kyung Kim | Korea | Hyo-Keun Lim | Korea | Jeong-Sik Yu | Korea |
| Hak Hee Kim | Korea | Min Hoan Moon | Korea | | |

Congress Information

Floor Plan



3F Hall E

Congress Dinner

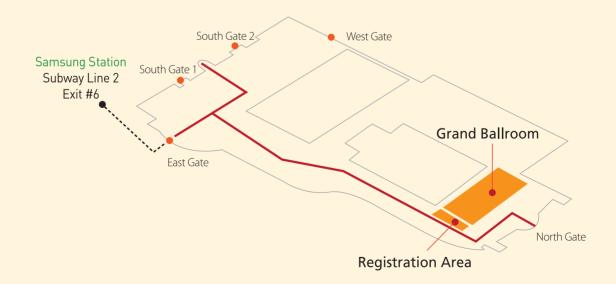
2F Conference Rooms

Session Room Secretariat

1F Grand Ballroom

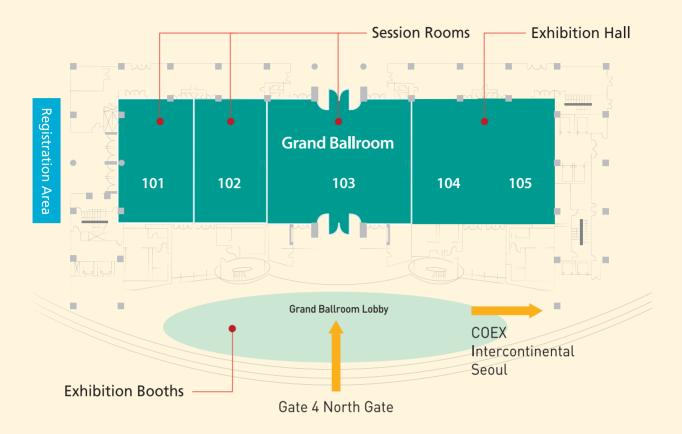
Registration Desk Session Rooms Preview Room Technical Exhibition Scientific Exhibition Event Zone

1st Floor

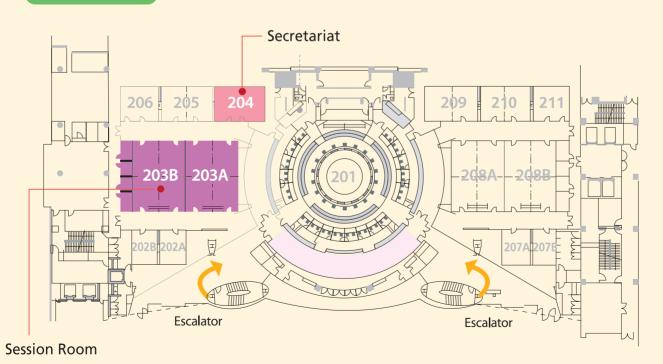




1st Floor



2nd Floor





Registration Desk

To save your time in the waiting line at the registration desk on-site, please bring the printed barcode with you to the registration desk.

| Place | Grand Ballroom Left-Lobby (1F) |
|-----------------|--------------------------------|
| Operating Hours | May 23 (Fri) 07:00-18:30 |
| | May 24 (Sat) 07:00-17:30 |

Registration Fee Includes

- Access to sessions (Hands-on Session is only for those who have registered for the session in advance)
- Access to Exhibition Hall
- Congress kit
- Program book
- Coffee breaks

Certificate of Attendance

All participants are able to download and print out a certificate of attendance at My Page of the KSUM Open 2014 website (http://2014.ksum.or.kr). This service will be available after the Congress.

Preview Room

| Place | On your left inside the Exhibition Hall, Grand Ballroom 104-105 (1F) | | |
|-------------|--|--|--|
| Date & Time | May 23 (Fri) 07:00-18:00 | | |
| | May 24 (Sat) 07:00-17:00 | | |

- Speakers and oral presentation speaker should visit and check your presentation file in the Preview Room at least **an hour before your session starts** to ensure that your presentation file appears properly.
- If your presentation contains animations or short movies, please make sure to check over all the technical matters **four hours prior to your session**.
- If you bring your own laptop, especially MAC, please visit the Preview Room to check its compatibility with our technical system.

^{*}Please note that the abstract books will not be published in print and distributed at the Congress on site. If you wish to view the abstract book, please visit the KSUM Open 2014 website (http://2014.ksum.or.kr).



Luncheon & Coffee Breaks

Luncheon

Lunch will be served according to the following schedule:

| Date & Time | Place | Program |
|----------------------------|-----------------------------|----------------------------|
| May 23 (Fri) 12:00-13:00 | Grand Ballroom 103 (1F) | General Assembly of KSUM |
| May 23 (FII) 12.00-13.00 | Room 203 (2F) | Annual Meeting of KMUL |
| May 24 (Sat) 12:00-13:00 | Grand Ballroom 101-102 (1F) | Luncheon Session (Bracco) |
| Ividy 24 (3dl) 12:00-13:00 | Grand Ballroom 103 (1F) | Luncheon Session (Toshiba) |

Coffee Breaks

| Place | Grand Ballroom Lobby (1F) |
|-------------|---|
| Date & Time | May 23 (Fri) - 24 (Sat) 10:00-10:30 / 14:50-15:20 |

Event Zone (Coffee Station, Caricatures, Photo Zone)

| Place | Exhibition Hall, Grand Ballroom 104-105 (1F) | | |
|-----------------|--|--|--|
| Operating Hours | May 23 (Fri) 09:00-18:00 | | |
| | May 24 (Sat) 09:00-17:00 | | |

All registered participants may have free coffee at the Coffee Station and also enjoy caricature drawings and experience traditional Korean costumes in the Event Zone during the Congress. Photo service is offered to all participants who try on the traditional Korean costumes.

My Unforgettable Ultrasound Exhibition

| Place | Exhibition Hall, Grand Ballroom 104-105 (1F) | | |
|-----------------|--|--|--|
| Operating Hours | May 23 (Fri) 08:00-18:00 | | |
| | May 24 (Sat) 08:00-16:00 | | |

The winning photographs of the Gold, Silver, and Bronze awards will be exhibited in the Exhibition Hall during the Congress.

Official Programs

KSUM General Assembly & Luncheon

KSUM General Assembly & Luncheon will be conducted in Korean.

| Place | Grand Ballroom 103 (1F) |
|-----------------|--------------------------|
| Operating Hours | May 23 (Fri) 12:00-13:20 |

Congress Dinner

The Congress Dinner will provide you with a great opportunity to socialize with leading experts and enjoy excellent dishes. There will be memorable events, a performance by a female vocalist, and a Lucky Draw at the end of the dinner. For those who would like to attend, please apply for the Congress Dinner at the registration desk. As tickets are limited, please purchase them in advance.

| Place | Hall E5-6 (3F) |
|-----------------|--------------------------|
| Operating Hours | May 23 (Fri) 18:10-21:00 |

Scientific Awards

Young Investigator Award

- * Awarded to presenters (under the age of 40) of the abstracts selected as the most outstanding for the oral presentation.
- * Selected abstracts will be presented at the Scientific Session of YIA and evaluated after the session.

| Category | Award | | |
|------------|-----------------------------------|------------------------|--|
| Grand Prix | USD 500 / KRW 500,000 (1 winner) | International / Korean | |
| Gold | USD 300 / KRW 300,000 (2 winners) | international/ Korean | |



Best Poster Award

Awarded to primary authors of selected scientific exhibitions based on peer review of the scientific content of the presentations.

| Category | Award | | |
|------------|-----------------------------------|------------------------|--|
| Grand Prix | USD 500 / KRW 500,000 (1 winner) | | |
| Gold | USD 300 / KRW 300,000 (2 winners) | International / Varian | |
| Silver | USD 200 / KRW 200,000 (3 winners) | International / Korean | |
| Bronze | USD 100 / KRW 100,000 (4 winners) | | |

Presenter Award

- * Awarded to all Korean presenters of abstracts accepted for presentation at the scientific presentation or exhibition.
- * The Presenter Award is given only once to the presenting author regardless of the number of accepted abstracts or co-authors.

| Category | Award | | |
|------------------|---------------------------------|-------------|--|
| Oral Presenter | 100% of Registration Fee Refund | | |
| Poster Presenter | 50% of Registration Fee Refund | Korean Only | |

International Grant Award

- * Awarded to all non-Korean presenters of the abstracts accepted for presentation at the scientific presentation or exhibition.
- * The International Grant Award is given only once to the presenting author regardless of the number of accepted abstracts or co-authors.

| Award | | |
|---------|--------------------|--|
| USD 500 | International Only | |



Sponsors

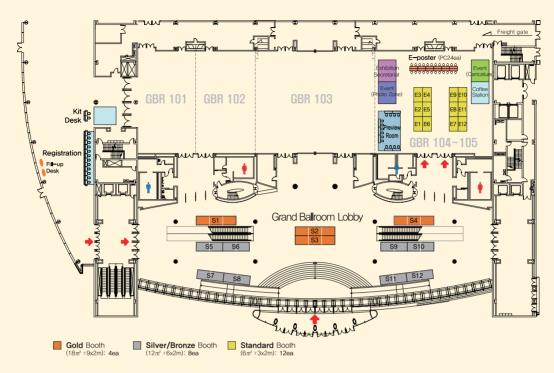
The Organizing Committee of KSUM Open 2014 gratefully acknowledges the sponsorship by following companies.



KOREA TOURISM ORGANIZATION



Exhibition Layout



| Booth No. | Company Name | Booth No. | Company Name |
|-----------|--|-----------|-----------------------------------|
| S 1 | Bayer Healthcare | E 1 | MEDAS |
| S 2 | Toshiba Medical Systems Korea Co., LTD | E 2 | LG Life Sciences |
| S3 | GE Healthcare Korea | E 3 | Bard Korea |
| S 4 | Samsung Medison | E 4 | KYOTO KAGAKU CO., LTD |
| S 5 | Guerbet Korea | E 5 | Mallinckrodt/Reyon Pharm |
| S 6 | Bracco Imaging Korea | E 6 | DAEWOONG PHARMACEUTICAL CO., LTD. |
| S 7 | Philips | E7&8 | HITACHI ALOKA MEDICAL KOREA, LTD |
| S 8 | Central Medical Service Co., Ltd | E 9 | WIN INTERNATIONAL Co., Ltd |
| S 9 | Dongkook Pharmaceutical | E 10 | DAEHAN Medical Publishing |
| S 10 | ACCUZEN | E 11 | Hansol Medical |
| S 11 | WITHHEALTHCARE | E 12 | SAEJONG MEDICAL BOOKS |
| S 12 | SIEMENS | | |

| Place | Grand Ballroom Lobby & Grand Ballroom 104-105 (1F) |
|-----------------|--|
| Operating Hours | May 23 (Fri) 08:00-18:00 |
| | May 24 (Sat) 08:00-17:00 |

Exhibition Tour Passport

Please visit the exhibition booths and collect a stamp from each booth. You will have the opportunity to get a prize by handing in the completed passport to the Exhibition Secretariat. All participants who registered for the KSUM Open 2014 are most welcome to visit the Technical Exhibition.

^{*} Gifts will be given to 100 people each day on a first-come, first-served basis.

Scientific Programs

* The online pdf file page is indicated on the right side of each lecture title.

1 (Friday, 23 May)

Meet the Professor Session

Pediatric Intussusception

GBR 101 07:40 - 08:20

Chairperson:

Hee Jung Lee Keimyung University Dongsan Medical Center, Korea

07:40 - 08:20

US-Guided Reduction of Intussusception: 21

Pearls and Pitfalls

Tatsuo Kono

Department of Radiology, Tokyo Metropolitan Children's

Medical Center, Japan

Genitourinary GU Biopsy

07:40 - 08:20 **GBR 102**

Chairpersons:

Hyuck Jae Choi Asan Medical Center, Korea

Min Hoan Moon SMG-SNU Boramae Medical Center, Korea

MPS 2 GU-1 07:40 - 08:00

Current Status of Transrectal Ultrasound Biopsy in 22 **Prostate Cancer**

See Hyung Kim

Department of Radiology, Keimyung University Dongsan Medical Center, Korea

MPS 2 GU-2 08:00 - 08:20

US-Guided Kidney Biopsy 27

Mi-hyun Kim

Department of Radiology, Asan Medical Center, Korea

Abdomen Rectum Evaluation for Tumorous & **Non-tumorous Conditions**

07:40 - 08:20 **GBR 103**

Chairpersons:

Chul Soon Choi Kangdong Sacred Heart Hospital, Korea

Seong Hyun Kim Samsung Medical Center, Korea

MPS 3 ABD-1 07:40 - 08:00

Transrectal USG: Pros and Cons 28

Department of Radiology, Korea University Anam Hospital,

Korea

MPS 3 ABD-2 08:00 - 08:20

Rectal MRI: Pros and Cons 30

Min Jung Park

Department of Radiology, Severance Hospital, Korea

Categorical Course

Pediatric Problem Solving US

GBR 101 08:30 - 10:00

Chairperson:

Hee Jung Lee Keimyung University Dongsan Medical Center, Korea

CC 1 PED-1 08:30 - 09:00

Problem Solving USG: Jaundice 31

Hee Jung Lee

Department of Radiology, Keimyung University Dongsan

Medical Center, Korea

CC 1 PED-2 09:00 - 09:30

> **Problem Solving US: Abdominal Pain** 36

Hong Eo

Department of Radiology, Samsung Medical Center, Korea

09:30 - 10:00

Problem Solving US: Scrotal and Inguinal Swelling 38

Young Ah Cho

Department of Radiology, Asan Medical Center, Korea

Genitourinary GU Practical Ultrasound

08:30 - 10:00 **GBR 102**

Chairpersons:

Young Taik Oh Severance Hospital, Korea

Seong Kuk Yoon Dong-A Medical Center, Korea

08:30 - 08:50

Penile USG

Sang Youn Kim Department of Radiology, Seoul National University

Hospital, Korea

CC 2 GU-2 08:50 - 09:10

> **US of the Scrotum** 43

39

Bum Sang Cho

Department of Radiology, Chungbuk National University

Hospital, Korea

CC 2 GU-3 09:10 - 09:30

55 **US of the Inguinal Area**

Eun-Suk Cho

Department of Radiology, Gangnam Severance Hospital,

Korea

CC 2 GU-4 09:30 - 09:50

US of the Prostate 58

Department of Radiology, Hallym University Sacred Heart

Hospital, Korea



| Abdomen Beyond Routine Abdomina | al US | SFS 1 CEUS-2 10:55 - 11:20 Molecular US: US-Guided Targeted Drug or Gene 70 |
|--|----------------|---|
| | | Therapy Alexander Klibanov |
| 08:30 - 10:00 Chairpersons: | GBR 103 | Department of Medicine, Cardiovascular Division, University of Virginia, USA |
| June-Sik Cho Chungnam National University Hospital, I Hunkyu Ryeom Kyungpook National University Hospital CC 3 ABD-1 08:30 - 09:00 | | SFS 1 CEUS-3 11:20 - 11:40 Current Status of CEUS in Korea: Liver Application 71 Min Woo Lee |
| Abdominal US at Emergency Department Choong Wook Lee Department of Radiology, Asan Medical Cer | 59 | Department of Radiology, Samsung Medical Center, Korea SFS 1 CEUS-4 11:40 - 12:00 Current Status of CEUS in Korea: Kidney Application 72 |
| CC 3 ABD-2 09:00 - 09:30 Abdominal US at Operation Room Ijin Joo Department of Radiology, Seoul National Ur Hospital, Korea | 64 | Jeong Yeon Cho Department of Radiology, Seoul National University Hospital, Korea |
| CC 3 ABD-3 09:30 - 10:00 Abdominal US at ICU Eun Sun Lee | 65 | Abdomen US Elastography |
| Department of Radiology, National Cancer (| Center, Korea | 10:30 - 12:00 GBR 103 |
| | | Chairpersons: Yongsoo Kim Hanyang University Guri Hospital, Korea |
| Physics by KMUL Imaging Artifacts | and Pitfall | Jae Young Lee Seoul National University Hospital, Korea |
| Errors | | SFS 2 ABD-1 10:30 - 11:00 |
| 08:30 - 10:00 | Room 203 | Basic Physics of Elastography 74 Hyunsik Woo |
| Chairpersons: Dong-guk Paeng Jeju National University, Korea Jin Ho Chang Sogang University, Korea | | Department of Radiology, SMG-SNU Boramae Medical Center, Korea SFS 2 ABD-2 11:00 - 11:30 |
| CC 4 PHY-1 08:30 - 09:00 | | Clinical Application of Acoustic Radiation Force 83 |
| Twinkling Artifacts in Ultrasound Color Do Imaging Min Joo Choi | | Impulse (ARFI) Elastography: Quantification of Hepatic Fibrosis & Characterization of Hepatic SOLs Ji Eun Kim Department of Radiology, Gyeongsang National University |
| Department of Medical Engineering, School Jeju National University, Korea | or iviedicine, | Hospital, Korea |
| CC 4 PHY-2 09:00 - 09:30 Artifacts and Pitfall Errors in Ultrasound S Doppler Imaging Yangmo Yoo Department of Electrical Engineering and In Program of Integrated Biotechnology, Sogang University, Korea | | SFS 2 ABD-3 Clinical Application of US Elastography: Extrahepatic Application Including Inflammatory Bowel Diseases Jonathan M. Rubin Department of Radiology, University of Michigan, USA |
| CC 4 PHY-3 09:30 - 10:00 Artifacts and Pitfall Errors in Ultrasound B | 3-mode 68 | Physics - Photoacoustic Clinical Applications of Photoacoustics |
| Imaging | | |
| Jungwoo Lee Department of Electronic Engineering, Kwar University, Korea | ngwoon | 10:30 - 12:00 Room 203 Chairperson: Tai-kyong Song Sogang University, Korea |
| Special Focus Session | | SFS 3 PHY-1 10:30 - 11:00 Ultrasound and Photoacoustic Dual Modality 90 Molecular Imaging and Enhanced Targeted Photothermal Therapy |
| Contrast-Enhanced Ultrasound | | Pai-Chi Li Department of Electrical Engineering, National Taiwan University, Taiwan |
| 10:30 - 12:00 | GBR 102 | SFS 3 PHY-2 11:00 - 11:30 |
| Chairpersons: Won Jae Lee Samsung Medical Center, Korea Hak Jong Lee Seoul National University Bundang Hosp | ital, Korea | Listening to Shiny Body: <i>In Vivo</i> Photoacoustic 91 Tomography Chulhong Kim Department of Creative IT Engineering, Pohang University |
| SFS 1 CEUS-1 10:30 - 10:55 Molecular US: Basic Principles Alexander Klibanov Department of Medicine, Cardiovascular Div University of Virginia, USA | 69 vision, | of Science and Technology, Korea SFS 3 PHY-3 11:30 - 12:00 A Trimodal In Vivo Imaging System: Fluorescence, 94 Photoacoustic, and Ultrasound Imaging Jin Ho Chang Interdisciplinary Program of Integrated Biotechnology and |
| | | Department of Electronic Engineering, Sogang University, Korea |

Pediatric Prenatal and Postnatal US

| 13:20 - 14:50 | GBR 101 | Physics Advanced Ultrason Techniques | und Imaging |
|---|---------------------------------|--|-----------------------------------|
| Chairperson: Myung-Joon Kim Severance Hospital, Korea | 9 | 13:00 - 15:00 | Room 203 |
| SFS 4 PED-1 13:20 - 13:50 Ultrasound of Umbilical and Perion in Newborn | | Chairpersons: Yangmo Yoo Sogang University, Korea Sung-Jae Kwon Daejin University, Korea | |
| Tatsuo Kono Department of Radiology, Tokyo N Medical Center, Japan SFS 4 PED-2 13:50 - 14:20 Hydronephrosis in Neonates | detropolitan Children's | Synthetic Aperture Imaging Tai-kyong Song Department of Electronic Engin Korea | 116 eering, Sogang University, |
| Young Hun Choi Department of Radiology, Seoul No. Children's Hospital, Korea SFS 4 PED-3 14:20 - 14:50 Postnatal Imaging of Neonates w Abnormalities | · | IT 1 PHY-2 13:20 - 13:40 Color Encoded Speckle Imagi Dynamics Alfred Yu Department of Electrical and El University of Hong Kong, Hong | ectronic Engineering, |
| Jung-Eun Cheon Department of Radiology, Seoul N Children's Hospital, Korea | ational University | IT 1 PHY-3 13:40 - 14:00 Fast Flow Vortex Imaging Yangmo Yoo Department of Electronic Engin Program of Integrated Biotechn | |
| Genitourinary GU Emergence | y Ultrasound | Sogang University, Korea IT 1 PHY-4 14:00 - 14:20 Carotid Strain Imaging for Ris | k Assessment of 119 |
| 13:20 - 14:50 Chairpersons: Jeong Yeon Cho Seoul National University F Sung Eun Rha The Catholic University of Kon Hospital, Korea | | Atherosclerotic Plaques Jianwen Luo Department of Biomedical Engi University, China IT 1 PHY-5 14:20 - 14:40 | |
| SFS 5 GU-1 13:20 - 13:40 US in Acute Scrotal Pain Harvey L. Nisenbaum Department of Radiology, Penn Pr Center (PPMC), USA | 103 esbyterian Medical | High Frequency Ultrasound In Its Application in Clinical Med Yoshifumi Saijo Graduate School of Biomedical University, Japan | icine |
| SFS 5 GU-2 13:40 - 14:00 Acute Pelvic Pain: Obstetric Sung Bin Park Department of Radiology, Chung-A Korea | 107 Ang University Hospital, | IT 1 PHY-6 14:40 - 15:00 High Frequency Ultrasound M Cancer Research Jae Youn Hwang Department of Information and | Communication Engineerin |
| SFS 5 GU-3 14:00 - 14:20 Acute Pelvic Pain: Gynecologic You Me Kim Department of Radiology, Dankook Korea | 113 k University Hospital | Daegu Gyeongbuk Institute of S (DGIST), Korea Jisan Lecture | Science & Technology |
| SFS 5 GU-4 14:20 - 14:40 Acute Pelvic Pain, Non OBGY Eti Young Joon Lee Department of Radiology, The Cat. | | 15:20 - 16:30 Chairperson: Hyo-Keun Lim Samsung Medical Center, | GBR 103 |
| Seoul St. Mary's Hospital, Korea General Assembly & Lur | · | JL-1 15:20 - 15:50 US- Important Element in Med Education Harvey L. Nisenbaum Department of Radiology, Penri Center, USA | ical School 122 |
| 12:00-13:20 Annual Meeting of KMU | GBR 103 | JL-2 15:50 - 16:20 Musculoskeletal Ultrasound: I Future Kil-Ho Cho Department of Radiology, Yeurn Center, Korea | |

Invited Talk

12:00-13:00

Room 203



Scientific Sessions

Interactive Case Review

| 16:30 | 0 - 17:50 | GBR 103 | | |
|--------|---|----------------------------|---|-----|
| | oerson: oung Seo Korea University Ansan Ho | spital, Korea | Pediatric | |
| ICR | Abdomen | | 10:30-11:40 GBR 1 | 01 |
| | Hyun Cheol Kim Department of Radiology, Kyung I Gangdong, Korea | Hee University Hospital at | Chairperson: Choon-Sik Yoon Gangnam Severance Hospital, Korea | |
| | Breast Bo Kyoung Seo Department of Radiology, Korea L Korea Genitourinary | Iniversity Ansan Hospital, | Children on Ultrasonography Hyun Joo Shin, Hyun Gi Kim, Myung-Joon Kim, Mi-Jung Lee | 211 |
| | Sung Il Jung Department of Radiology, Konkuk Center, Korea Musculoskeletal Sun Joo Lee | University Medical | Department of Radiology, Severance Hospital, Korea SS 1 PED-2 10:40 A New Ultrasound Method for the Assessment of Head Shape in Infants with Plagiocephaly Dong-Soon Park, Gi-Young Park, Dong-Rak Kwon, | 211 |
| | Department of Radiology, Inje Uni Hospital, Korea Head & Neck-Thyroid Kwang Hwi Lee | versity Pusan Paik | Hee-Kyung Cho Department of Rehabilitation Medicine, Daegu Catholic University Medical Center, Korea | |
| | Department of Radiology, Inje Uni Hospital, Korea Pediatric Young ah Cho Department of Diagnostic Radiolog Korea | | US and MR Findings of Limited Dorsal Myeloschisis: Comparison with Congenital Dermal Sinus So Mi Lee, Young Hun Choi, Jung-Eun Cheon, Woo-Sun Kim, In-One Kim, Hyun-Hae Cho Department of Radiology, Seoul National University Hospital, Korea | 212 |
| | cory of Ultrasound | rld and in Korea | SS 1 PED-4 11:00 Quantitative Sonographic Texture Analysis in Preterm Infants with White Matter Injury: Correlation of Texture Features with White Matter Injury Severity Sun Kyoung You¹, Young Hun Choi², Sang Jun Park², Jung Eun Cheon², In One Kim², | 212 |
| Chairp | 0 - 18:00 person: Koo Han Seoul National University Ho | Room 203 | Woo Sun Kim ² ¹ Department of Radiology, Chungnam National Universit Hospital, Korea | y |
| HU-1 | 16:30 - 16:45 | ърна, Погеа | ² Department of Radiology, Seoul National University Hospital, Korea | |
| | History and Archives of WFUMB Seung Hyup Kim Department of Radiology, Seoul N Hospital, Korea | 306 lational University | SS 1 PED-5 11:10 Testicular Teratoma vs. Epidermoid Cyst in Children - Comparison of US Findings Min-Yung Chang, Hyun Joo Shin, Hyun Gi Kim, | 213 |
| HU-2 | 16:45 - 17:00 AFSUMB History Byung Ihn Choi | 314 | Myung-Joon Kim, Mi-Jung Lee Department of Radiology, Severance Hospital, Korea SS 1 PED-6 11:20 | |
| HU-3 | Department of Radiology, Seoul N Hospital, Korea 17:00 - 17:15 | lational University | Comparative Study of Sonography Guided Hydrostatic Reduction in Between Ileoileocolic and Ileocolic Intussusception with Comparison of | 213 |
| | History of AIUM Harvey L. Nisenbaum Department of Radiology, Penn P. Center (PPMC), USA | 320 resbyterian Medical | Complications Between Hydrostatic Reduction and Operative Management Madan Mohan Gupta, Nandini Bahri, Ketan Rathod | |
| HU-4 | 17:15 - 17:30 History of KSUM Won Jae Lee | 323 | Department of Radiology, MP Shah Medical College, Jamnagar, India SS 1 PED-7 11:30 | |
| HU-5 | Department of Radiology, Samsur 17:30 - 17:45 | | US-Guided Contrast Enema in Meconium Obstruction of Prematurity: Evaluation of Factors That Affect the Treatment Success | 214 |
| | History of Ultrasound Industry in Tai-kyong Song Department of Electronic Enginee Korea | | Hyun-Hae Cho¹, Young Hun Choi¹, Jung-Eun Cheon¹, Su-Mi Shin², So Mi Lee¹, Sun Kyoung You³, Woo Sun Kir In-One Kim¹ ¹Department of Radiology, Seoul National University Hospital, Korea ²Department of Radiology, Boramae Medical Center, Kol³Department of Radiology, Chungnam National Universit | rea |

Hospital, Korea

SS 2 ABD-6 14:10 Shear Wave Elastography as a Non-invasive **Genitourinary** Parameter to Estimate Esophageal Varices: Comparison with Platelet Count/ Spleen Diameter Ratio **GBR 101** 11:40-11:50 Sanghyeok Lim¹, Woo Kyoung Jeong², Seung Hyun Kim¹, Yongsoo Kim¹, Jinoo Kim³ Chairperson: ¹Department of Radiology, Hanyang University Guri Chan Kyo Kim Samsung Medical Center, Korea Hospital, Korea SS 1 GU-1 ²Department of Radiology, Samsung Medical Center, Korea **B Flow and Color Doppler Examination for the** 215 ³Department of Radiology, Ajou University Medical Center, **Diagnosis of Varicocele** Korea Hye Ran Hyun, Byung Chul Kang Department of Radiology, Ewha Womans University Mokdong Hospital, Korea **Young Investigator Award Abdomen** 14:20-14:50 **GBR 103** Chairperson: Jeong-Sik Yu Gangnam Severance Hospital, Korea 13:20-14:20 **GBR 103** SS 2 YIA-1 14:20 Chairpersons: Gel Phantom Study with HIFU: Influence of Metallic 218 Dal Mo Yang Kyung Hee University Hospital at Gangdong, Korea Stent Containing Either Air or Fluid Sang Soo Shin Chonnam National University Hospital, Korea Koung Mi Kang, Jae Young Lee, Haeri Kim, SS 2 ABD-1 13:20 Joon Koo Han, Byung-Ihn Choi **Accurate Sonographic Differentiation of Bezoar** 215 Department of Radiology, Seoul National University from Feces in Small Bowel Obstruction Hospital, Korea Kyung Hoon Lee1, Hyun Young Han1, Hee Jin Kim1, **SS 2 YIA-2** Hee Kyung Kim¹, Moon Soo Lee² **Electromagnetic-Tracked Radiofrequency** Department of Radiology, Eulji University Hospital, Korea **Electrode Under Ultrasound Guidance** ²Department of Surgery, Eulji University Hospital, Korea Tae Wook Kang, Min Woo Lee **SS 2 ABD-2** Department of Radiology, Samsung Medical Center, Korea Usefulness of On-site-education for the Quality SS 2 YIA-3 **Assurance of Screening Ultrasound Examinations for** High Frame Rate Ultrasound Can Track Fast-Hepatocellular Carcinoma: Korean Experience **Changing Vector Flow Fields in Carotid Bifurcation** Joon-II Choi, Seung Eun Jung, Jae Young Byun Models Department of Radiology, The Catholic University of Korea, Billy Y.S. Yiu, Alfred C.H. Yu Seoul St. Mary's Hospital, Korea Department of Medical Engineering, University of Hong **SS 2 ABD-3** Kong, Hong Kong Usefulness of Assistant Intercostal Oblique Planar 216 Reformatted CT or MR Images for US Guided Radiofrequency Ablation of Poorly Defined Malignant **Hepatic Tumors on B-mode US** SunYoung Park, Young Joon Lee, Joon II Choi, Jae Young Byun Department of Radiology, The Catholic University of Korea, Seoul St. Mary's Hospital, Korea **SS 2 ABD-4** The Usefulness with the Combination of Color 217 Doppler and Contrast-Enhanced Harmonic EUS for the **Assessment of Visceral Vascular Disease** Jin-Seok Park, Dong-Wan Seo, Tae Jun Song, Do Hyun Park, Sang Soo Lee, Sung-Koo Lee, Myung-Hwan Kim Department of Internal Medicine-G-I/Hepatology, Asan Medical Center, Korea 14:00 **Ultrasound Elastography in Diagnosis of Acute** 217 **Appendicitis: Role and Limitations** Sunil Agrawal, Meenu Bagarhatta,

219

219

Nitin Mishra, Vikas Jhanwar

Hospitals, Jaipur, India

Department of Radiology, SMS Medical College and



Day 2 (Saturday, 24 May)

Meet the Professor Session

Breast Update in Breast US

GBR 101 07:40 - 08:20

Chairpersons:

Hye-Young Choi Gachon University Gil Hospital, Korea

Wei Yang The University of Texas MD Anderson Cancer Center, USA

MPS 4 BR-1 07:40 - 08:00

How Helpful is Elastography for Routine Practice?

Ji Hyun Youk

Department of Radiology, Gangnam Severance Hospital,

Korea

MPS 4 BR-2 08:00 - 08:20

Non-invasive Papillary Lesions of the Breast 131

Detected on US Comparing with MRI Findings

Wei Min Chai

Department of Radiology, Ruijin Hospital, Shanghai Jiaotong University School of Medicine, China

Musculoskeletal Case Presentation

07:40 - 08:20 **GBR 102**

Chairpersons:

Young Cheol Yoon Samsung Medical Center, Korea

Jung-Ah Choi Seoul National University Bundang Hospital, Korea

MPS 5 MSK-1 07:40 - 08:00

Postoperative Ultrasound of Soft Tissues 133

Jung-Ah Choi

Department of Radiology, Seoul National University

Bundang Hospital, Korea

MPS 5 MSK-2 08:00 - 08:20

Peripheral Nerve Imaging: Case Presentation 134

Jae Hvuck Yi

Department of Radiology, Kyungpook National University

Hospital, Korea

Thyroid Navigation Assisted RFA

07:40 - 08:20 **GBR 103**

Chairperson:

Jung Hwan Baek Asan Medical Center, Korea

MPS 6 THY-1 07:40 - 08:20

Navigation Assisted RFA 138

Giovanni Turtulici

Department of Radiology, International Evangelico

Hospital, Italy

Categorical Course

Breast Screening Breast US

GBR 101 08:30 - 10:00

Chairpersons:

Hak Hee Kim Asan Medical Center, Korea

Boo-Kyung Han Samsung Medical Center, Korea

CC 5 BR-1 08:30 - 09:00

Probably Benign Lesion Detected on Screening 139

Breast US

Eun Sook Ko

Department of Radiology, Samsung Medical Center, Korea

CC 5 BR-2 09:00 - 09:30

> **Breast Cancer Detected on Screening Breast US** 140

Nariya Cho

Department of Radiology, Seoul National University

Hospital, Korea

CC 5 BR-3 09:30 - 10:00

Do We Use US BI-RADS Correctly? 142

Bong Joo Kang

Department of Radiology, The Catholic University of Korea,

Seoul St. Mary's Hospital, Korea

Musculoskeletal US of Upper Extremity

08:30 - 10:00 **GBR 102**

Chairpersons:

Sung Moon Lee Keimyung University Dongsan Medical Center, Korea

Min Hee Lee Asan Medical Center, Korea

CC 6 MSK-1 08:30 - 09:00

Nerve Imaging of Upper Extremity Soo-Jung Choi

Department of Radiology, Gangneung Asan Hospital,

Korea

CC 6 MSK-2 09:00 - 09:30

> **US Guided Chronic Musculoskeletal Pain Control:** 149

Upper Limb

Hong-Jen Chiou

Department of Radiology, Taipei Veterans General

Hospital, Taiwan

CC 6 MSK-3 09:30 - 10:00

Postoperative US: Soft Tissues 151

Kyung Ah Chun

Department of Radiology, Chungbuk National University

Hospital, Korea

Thyroid Basic and Update of Thyroid Radiology

08:30 - 10:00 **GBR 103**

Chairpersons:

Eun-Kyung Kim Severance Hospital, Korea Joon Hyung Lee Dong-A Medical Center, Korea

08:30 - 08:50

Thyroid Nodules, US Evaluation and Biopsy

Eun Ju Ha

Department of Radiology, Ajou University School of

Medicine, Korea

154

145

| 00.7.7111/ 0 00.70 00.40 | | | |
|--|-------------|---|-----|
| CC 7 THY-2 08:50 - 09:10 Lymph Node Evaluation: US, CT and Biopsy | 157 | Musculoskeletal US of Lower Extremity | |
| Hyun Kyung Lim Department of Radiology, Seoul Soonchunhyang Unive | ersity | • | |
| Hospital, Korea | | 10:30 - 12:00 GBR | 102 |
| CC 7 THY-3 09:10 - 09:30 Parathyroid Lesions, Role of Radiologist Jin Yong Sung | 160 | Chairpersons: Mi Sook Sung The Catholic University of Korea, Bucheon St. Mary's Hospital, Korea | s |
| Department of Radiology, Daerim St. Mary's Hospital, | | Kyung Ah Chun Chungbuk National University Hospital, Korea | |
| Korea CC 7 THY-4 09:30 - 09:50 | | SFS 7 MSK-1 10:30 - 11:00 US in Peripheral Neuropathy: Lower Extremity | 177 |
| Pediatric Thyroid Disease (Nodule and Congenital Lesions) So Lyung Jung | 163 | Sung Moon Lee Department of Radiology, Keimyung University Dongsa Medical Center, Korea | |
| Department of Radiology, The Catholic University of Ko Seoul St. Mary's Hospital, Korea | orea, | SFS 7 MSK-2 11:00 - 11:30 US Guided Chronic Musculoskeletal Pain Control: Lower Limb | 182 |
| Cardiovascular Doppler Ultrasound Lower Leg Arterial System | | Hong-Jen Chiou Department of Radiology, Taipei Veterans General Hospital, Taiwan | |
| 15:20 - 16:50 GBR | 102 | SFS 7 MSK-3 11:30 - 12:00 US of Soft Tissue. "Oops Lesions" | 184 |
| Chairpersons: Yeon Hyeon Choe Samsung Medical Center, Korea Hwan Hoon Chung Korea University Ansan Hospital, Korea | | Hye Won Chung Department of Radiology, Asan Medical Center, Korea | l |
| CC 8 CV-1 15:20 - 15:50 | | Cardia vaccular Contanta Athenas density | |
| Lower Leg Artery: Assessment with Doppler US Sang Il Choi Department of Radiology, Seoul National University | 166 | Cardiovascular Systemic Atherosclerosis: Role of Ultrasound | |
| Bundang Hospital, Korea | | 13:20 - 14:50 GBR | 102 |
| CC 8 CV-2 US Assessment of Medial Arterial Calcification Eric Kin Hung Liu Department of Radiology, Prince of Wales Hospital, Chinese University of Hong Kong, Hong Kong | 171 | Chairpersons: Tae Hoon Kim Gangnam Severance Hospital, Korea Bae Young Lee St. Paul Hospital, The Catholic University of Korea, Korea | |
| CC 8 CV-3 16:20 - 16:50 | | SFS 8 CV-1 13:20 - 13:45 Carotid Plaque and Thickness: | 186 |
| USG Diagnosis of the Lower Leg Arterial Insufficiency | 172 | Clinical Significance and Application Ki Seok Choo | |
| Se Hwan Kwon Department of Radiology, Kyung Hee University Medica | al | Department of Radiology, Pusan National University Yangsan Hospital, Korea | |
| Center, Korea | | SFS 8 CV-2 13:45 - 14:10 Carotid Plaque Neovascularization at Contrast- | 188 |
| Special Focus Session | | Enhanced US You-Bin Deng Department of Medical Ultrasound, Tongji Hospital, | |
| Breast Preoperative Breast US | | Tongji Medical College, Huazhong University of Scienc And Technology, China | е |
| | | SFS 8 CV-3 14:10 - 14:35 Carotid US to Predict Cardiovascular Events: | 189 |
| 10:30 - 12:00 GBR | <u> 101</u> | Comparison with CACS and Cardiac MDCT | 103 |
| Chairpersons: Wei Min Chai Ruijin Hospital, Shanghai Jiaotong University School of Medicine, China | of | Eun Ju Chun Department of Radiology, Seoul National University Bundang Hospital, Korea | |
| Woo Kyung Moon Seoul National University Hospital, Korea | | | |
| SFS 6 BR-1 10:30 - 11:00 Role of Ultrasound in the Staging of Breast Cancer Wei Yang | | Head & Neck Ultrasound Elastography in the Head and Neck |) |
| Department of Diagnostic Radiology, The University of Texas MD Anderson Cancer Center, USA | | 13:20 - 14:50 GBR | 103 |
| SFS 6 BR-2 11:00 - 11:30 | | Chairpersons: | 103 |
| Axillary Lymph Node Evaluation on Breast US Min Jung Kim Department of Radiology, Severance Hospital, Korea | 174 | Jeong Seon Park Hanyang University Medical Center, Korea Young Hen Lee Korea University Ansan Hospital, Korea | |
| SFS 6 BR-3 11:30 - 12:00 | | SFS 9 HN-1 13:20 - 13:40 Basic Physics and Practical Aspects | 190 |
| Role of Breast Ultrasonography in the Neoadjuvant Systemic Treatment Setting Sun Mi Kim | 176 | Ji Soo Choi Department of Radiology, Samsung Medical Center, Ko | |
| Department of Radiology, Seoul National University Bundang Hospital, Korea | | | |



| SFS 9 H | Ultrasound Elastography: an Assessment of Cervical Lymph Nodes Young Jun Choi Department of Radiology, Asan Medical Center | er, Korea if 196 | | 15:50 - 16:00 Smart Fusion Min Hee Lee Department of Radiology, Soor Bucheon Hospital, Korea | nchunhyang University | 208 |
|--------------------------------|---|---------------------|---------------|--|---|-------------|
| _ | separament of Nadiology, Severance Hospital | , Norea | He | ad & Neck | | |
| Lunc | heon Session | | 10:3 | 0-11:20 | GBR | 103 |
| Brac | co Imaging Korea | | Jeong Dong | persons: Hyun Lee Asan Medical Center, Wook Kim Inje University Pusan I | | |
| 12:00 | - 13:00 GB | R 101-102 | SS 3 I | HN-1 10:30 Ultrasound Diagnosis of Tube | erculous | 220 |
| LS 1 BR | rson: nn Choi Seoul National University Hospital, Korea ACCO-1 12:10 - 12:30 Contrast-Enhanced Ultrasound in Liver | 198 | | Lymphadenitis in the Neck Dong Wook Kim, Jun Ho Park Department of Radiology, Inje the Hospital, Korea | | |
| LS 1 BR | Transplantation Kyoung Won Kim Department of Radiology and Research Institut Radiology, Asan Medical Center, Korea ACCO-2 12:30 - 12:50 Contrast-Enhanced Doppler USG: From Act Extremity Sang II Choi | | SS 31 | Spinal Accessory Nerve: Ultra Correlation with Neck Lymph Min Ji Hong, Jung Hwan Baek, Woo Jung Choi, Eun Ju Ha, Yo Jeong Hyun Lee Department of Radiology, Asan | Node Levels Dae Yoon Kim, oung Jun Choi, | 221 |
| E | Department of Radiology, Seoul National Univ Bundang Hospital, Korea niba Medical Systems Korea C | | | Long Term Ultrasonographic Neck US after Injection of Fac Artifact on US Kwang Hwi Lee, JiHwa Ryu Department of Radiology, Inje U Hospital, Korea | ial Filler: the Role of | |
| 12:30 | - 13:00 | GBR 103 | SS 3 I | HN-4 11:00 Comparison of Accuracies Be | etween US-Guided | 222 |
| Chairper Joon Ko LS 2 TO | rson: o Han Seoul National University Hospital, Korea | 200 | | Fine Needle Aspiration and US Biopsy to Detect Malignancy a specific Diagnosis of Salivary Hye-Joung Eom ¹ , Jung Whan E Young Jun Choi ¹ , Ra Gyoung Y Kyung-Ja Cho ² , Soon Yuhl Nan ¹ Department of Radiology, Asai ² Department of Pathology, Asai ³ Department of Otorhinolaryngo Korea | and to Make Tissue- r Gland Tumors Baek¹, /oon¹, m³ n Medical Center, Kore n Medical Center, Kore | ea ea |
| Hand | ds on Session | | SS 3 I | HN-5 11:10 Comparative Imaging Analysi Ultrasonographic, Contrast-E | | 222 nces |
| Fusi | on Imaging | | | of Metastatic Cervical Lymph Thyroid Cancer: Prospective, Young Hen Lee ¹ , Ji-Hoon Kim ² , | Multicenter Study , Dong Gyu Na ³ , | |
| | - 17:10 | GBR 101 | | So Lyung Jung ⁴ , Jung Hwan Ba S-W Park ⁶ , Jinna Kim ⁷ , Tae Jin ¹ Department of Radiology, Kore | Yoon ² | |
| Chairper Jae Your | rson: ng Lee Seoul National University Hospital, Korea | | | Hospital, Korea | , | |
| HS-1 1 | 5:30 - 15:40 /olume Navigation /lin Woo Lee Department of Radiology, Samsung Medical C | 201 | | ² Department of Radiology, Seo Hospital, Korea ³ Department of Radiology, Hun Intervention Center, Korea | nan Medical Imaging ai | |
| HS-2 1 F J | 5:40 - 15:50 PercuNav Iin Woong Kim Department of Radiology, Chonnam National Hwasun Hospital, Korea | 205 | | ⁴ Department of Radiology, The Korea, Seoul St. Mary's Hospits ⁵ Department of Radiology, Asas ⁶ Department of Radiology, Bora ⁷ Department of Radiology, Seven | al, Korea n Medical Center, Kore amae Medical Center, I | ea Korea |

| Thyroid | Significance of Incidentally-detected 22 Subcentimeter Enhancing Lesions on Preoperative |
|--|---|
| 44 00 40 00 | Breast MRI: Role of Second-look US in Lesion Detection |
| 11:20-12:00 GBR 103 Chairpersons: Jeong Hyun Lee Asan Medical Center, Korea Dong Wook Kim Inje University Pusan Paik Hospital, Korea | and Management Se Jin Nam, Eun-Kyoung Kim, Min Jung Kim, Hee Jung Moon, Jung Hyun Yoon Department of Radiology, Severance Hospital, Korea |
| A Study on Serum Antithyroglobulin Antibodies Interference in Thyroglobulin Measurement in Fine- needle Aspiration in Diagnosing Lymph Node Metastasis in Postoperative Patients Hyun Joo Shin¹, Hye Sun Lee², Eun-Kyung Kim¹, Hee Jung Moon¹, Jin Young Kwak¹ ¹Department of Radiology, Severance Hospital, Korea ²Biostatistics Collaboration Unit, Medical Research Center, Severance Hospital, Korea | SS 4 BR-4 New Wireless Ultrasound-Guided Vacuum-assisted Breast Biopsy (VABB) Devices: an Audit of Initial Experience E-Ryung Choi, Boo-Kyung Han, Eun Sook Ko, Ji Soo Choi, Eun Young Ko Department of Radiology, Samsung Medical Center, Kore SS 4 BR-5 14:00 Accuracy and Reproducibility of Elastography: Comparison between SWE, ShearScan, and Strain- |
| SS 3 THY-2 11:30 Known Clinical Risk Factors of Thyroid Cancer: Are They Still Useful in Euthyroid Asymptomatic Patients with Thyroid Nodules? Shinhye Hwang, Eun-Kyung Kim, Hee Jung Moon, Jung Hyun Yoon, Jin Young Kwak Department of Radiology, Severance Hospital, Korea | based Elastography Using Phantom Eun Young Ko¹, Boo-Kyung Han¹, Ji Soo Choi¹, Kiwan Choi², Hyoung-Ki Lee², Jae Moon Jo² ¹Department of Radiology, Samsung Medical Center, Kore ²Samsung Electronics, Korea SS 4 BR-6 14:10 Diagnostic Performance of Shear Wave 22 |
| SS 3 THY-3 11:40 Preoperative US and Cytological Characteristics of Follicular Variant of Papillary Thyroid Carcinoma Jung Hyun Yoon, Eun-Kyung Kim, Hee Jung Moon, Jin Young Kwak Department of Radiology, Severance Hospital, Korea | Elastography in the Diagnosis of Breast Non-mass Lesions: Comparison with Doppler Ultrasonography Ji Soo Choi, Boo-Kyung Han, Eun Sook Ko, Eun Young Ko, Soo Yeon Hahn Department of Radiology, Samsung Medical Center, Kore |
| SS 3 THY-4 Clinical Significance of Parenchymal Echogenic Dots in Thyroid Gland Hyesun Park¹, Jung Hwan Baek¹, Eun Ju Ha², Jin Yong Sung³, Hyunju Yoo⁴, Young Jun Choi¹, Jeong Hyun Lee¹ ¹Department of Radiology, Asan Medical Center, Korea ²Department of Radiology, Ajou University Medical Center, Korea ³Department of Radiology, Daerim St. Mary's Hospital, Korea | Musculoskeletal 14:20-14:50 GBR 10 Chairpersons: Sang Yong Lee Chonbuk National University Hospital, Korea Jeong Ah Ryu Hanyang University Guri Hospital, Korea SS 4 MSK-1 14:20 The Role of Ultrasonography and Magnetic 22 |
| ⁴ Department of Pathology, Daerim St. Mary's Hospital, Korea | Resonance Imaging in Early Detection of Psoriatic Arthritis: Comparison with Radiographic and Clinical Findings Mohammed Amin¹, Abdou Allaban², Gehan Omar¹ ¹Department of Rehabilitation Medicine, ElMinya Universit |
| 13:20-14:20 GBR 101 | Hospital, Egypt ² Department of Rehabilitation Medicine, Minya University Hospital, Egypt |
| Chairpersons: Eun Young Ko Samsung Medical Center, Korea Kyu Ran Cho Korea University Anam Hospital, Korea | SS 4 MSK-2 14:30 Catching it Early: Utilizing High-resolution Duplex 23 Ultrasound with Power Doppler Imaging of Small Joints |
| SS 4 BR-1 Automated Whole Breast Ultrasound: Interobserver Agreement in the Interpretation Ga Eun Park, Sung Hun Kim, Bong Joo Kang, Eun Jeong Kim Department of Radiology, The Catholic University of Korea, Seoul St. Mary's Hospital, Korea SS 4 BR-2 13:30 Management of Abnormal Axillary Lymph Node Identified During Screening Breast Ultrasound Inyoung Youn¹, Jung Hyun Yoon², | of Hands for Prognostication of Rheumatoid Arthritis Patients Undergoing Medical Management Siddharth Thaker, Nandini Bahri, Jasmin Ajudia Department of Radiology, Guru Gobindsingh Hospital, Ind SS 4 MSK-3 14:40 An Anatomic Difference of the Sacral Hiatus in Caudal Epidural Injection Using Ultrasound Guidance Gi-Young Park, Dong Rak Kwon, Hee Kyung Cho Department of Rehabilitation Medicine, Daegu Catholic University Medical Center, Korea |
| | |

SS 4 BR-3 13:40

²Department of Radiology, Severance Hospital, Korea



Management Decision Than Repeat Fine-needle

234

Thyroid

| 15:20-16:50 | GBR 103 | |
|--|---|---|
| 15:20-16:50 Chairpersons: Dong Gyu Na Human Medical Imaging & Intervention Jin Young Kwak Severance Hospital, Korea SS 5 THY-1 15:20 Diagnostic Performances of TIRADS in Acof a Thyroid Nodule on Ultrasound Accor Physicians Experience Su Yeon Ko¹, Eun-Kyung Kim², Jin Young Kin² Department of Radiology, Jeju National University | ssessing 231 ding to | Thyroid Nodules Dong Gyu Na¹, Hye Sook Min², Hunkyung Lee³, Hyobin Seo⁴, Ji-hoon Kim⁵, YeoKyu Yoon⁵ ¹Department of Radiology, Human Medical Imaging & Intervention Center, Korea ²Department of Pathology, Seoul National University Hospital, Korea ³Department of Pathology, Ewha Clinical Laboratory, Korea ⁴Department of Radiology, Healthcare Research Institute, Seoul National University Hospital Healthcare System Gangnam Center, Korea |
| Hospital, Korea ² Department of Radiology, Severance Hospikorea SS 5 THY-2 15:30 Quantitative Evaluation for Differentiating Malignant from Benign Thyroid Nodules Unistogram Analysis in Addition to Conversejin Nam, Eun-Kyoung Kim, Hee Jung Modung Hyun Yoon, Jin Young Kwak Department of Radiology, Severance Hospikos SS 5 THY-3 15:40 | y 231 Using Intional US | *Department of Radiology, Seoul National University Hospital, Korea *Department of Surgery, Seoul National University Hospital, Korea SS 5 THY-7 16:20 Comparison of Pain, Tolerability and Complications for Biopsy of Thyroid Nodules: Fine Needle Aspiration Versus Core Needle Biopsy Eun Ji Jeong, Jung Hwan Baek, Jeong Hyun Lee, Young Jun Choi |
| Ultrasound-Based Risk Stratification for Malignancy in Thyroid Nodules: Four-tier Categorization System Hyobin Seo¹, Dong Gyu Na², Ji-Hoon Kim³, Ji Won Yoon⁴, Kyung Won Kim⁴ ¹Department of Radiology, Gangnam Cente National University Hospital Healthcare Sys²Department of Radiology, Human Medical Intervention Center, Korea ³Department of Radiology, Seoul National University Korea | er, Seoul stem, Korea Imaging and | Department of Radiology, Asan Medical Center, Korea SS 5 THY-8 16:30 Treatment of Benign Cystic Thyroid Nodules by 235 Ethanol Ablation: Comparison of Ethanol Retention and Aspiration Hyesun Park', Jung Hwan Baek', Eun Ju Ha², Jeong Hyun Lee', Young Kee Shong³, Won Bae Kim³, Tae Yong Kim³ ¹Department of Radiology, Asan Medical Center, Korea ²Department of Radiology, Ajou University Medical Center, Korea |

SS 5 THY-6

16:10 Core Needle Biopsy is More Useful for

SS 5 THY-4

System, Korea 15:50 **Evaluation of Ultrasound Finding of Benign** 232 Thyroid Nodules for Radiofrequency (RF) Ablation: Is **Helpful to Predict Treatment Efficacy?** Hye Shin Ahn, Soo Jin Kim, Sung Hee Park, Mirinae Seo, Chang Un Lee Department of Radiology, Chung-ang University Hospital, Korea **SS 5 THY-5** 16:00 **Ultrasound Elastography for Assessing Thyroid** 233 **Nodules: Interrater Variability and Diagnostic**

⁴Department of Internal Medicine-Endocrine, Gangnam

Center, Seoul National University Hospital Healthcare

Performance Jieun Koh1, Hee Jung Moon1, Jeong Seon Park2, Soo Jin Kim3, Eun-Kyung Kim1, Jin Young Kwak1 ¹Department of Radiology, Severance Hospital, Korea ²Department of Radiology, Hanyang University Medical

Center, Korea ³Department of Radiology, Chung-ang University Hospital, Korea

SS 5 THY-9 16:40

Korea

Comparative Efficacy of Radiofrequency and 235 Laser Ablation for the Treatment of Benign Thyroid **Nodules: Systematic Review Including Traditional Pooling and Bayesian Network Meta-analysis** Eun Ju Ha1, Jung Hwan Baek2, Jeong Hyun Lee2, Junhee Pyo3, Kyung Won Kim2, Seung Hee Baek4 ¹Department of Radiology, Ajou University Medical Center, Korea ²Department of Radiology, Asan Medical Center, Korea ³Center for Evaluation of Value and Risk in Health, Institute of Clinical Research and Health Policy, Tufts Medical Center, USA ⁴Departments of Clinical Epidemiology and Biostatistics, Asan Medical Center, Korea

³Department of Internal Medicine, Asan Medical Center,

Scientific Exhibits

Abdomen

SE 001

Surveillance of Cholangiocarcinoma (CCA) in a 237 High Prevalent Area: the Initial Experience

<u>Surachate Siripongsakun</u>, Prakongboon Sangkasuban, Terapat Engtrakool, Sirachat Vidhyarkorn,

Nisakorn Kijsawad

Department of Radiology, Chulabhorn Hospital, Thailand

SE 002

Image-Guided Microwave Ablation with New
Generation Equipment in Liver Tumors: Results of a
Single Centre Prospective Study

Maria Franca Meloni¹, Anita Andreano¹, Giovanni Turtulici², Simone Schiaffino², Maria Proiti³, Alberto Frosi⁴

¹Department of Radiology, Ospedale Valduce Como, Italy

²Department of Radiology, Ospedale Evangelico Internazionale Genova, Italy

³Department of Internal Medicine, Policlinico Vittorio Emanuele Catania, Italy

⁴Department of Radiology, IRCCS Multimedica SS.Giovanni, Italy

SE 003

Ultrasonographic Assessment of Acute 238 Pancreatitis

Buyanjargal Burenjargal¹, Badamsed Tserendorj², Jargalsaikhan Sodnombaljir², Bayarjargal Nanzad¹, Aryasuren Zuunai³, Munkhbaatar Dagvasumberel¹ ¹Department of Radiology, Health Sciences University of Mongolia, Mongolia

²Department of Radiology, State Third Central Hospital, Mongolia

³Department of Radiology, State Second General Hospital, Mongolia

SE 004

Accuracy of Ultrasound in Diagnosis of Groin 238 Hernia

<u>Ka Lok Lee</u>, James Griffith, Wing Hung Ng Department of Radiology, Prince of Wales Hospital, Hong Kong

SE 005

The Role of Ultrasonography in the Diagnosis of Acute Phase of Chronic Pancreatitis 239

<u>Bayarjargal Nanzad</u>¹, Badamsed Tserendorj², Jargalsaikhan Sodnombaljir², Buyanjargal Burenjargal¹, Munkhbaatar Dagvasumberel¹

¹Department of Radiology, Health Sciences University of Mongolia, Mongolia

²Department of Radiology, State Third Central Hospital, Mongolia

SE 006

Sonographic Appearance of Ascaris and Typical 239 Serpentine Movement

Musarrat Hasan

Department of Radiology, Thomas Jefferson University Philadelphia PA USA, Pakistan

SE 007

The Clinical Disparity of Gallstone Disease in a Chinese Occupational Population in Taipei, Taiwan

Wei-Hsiu Chiu¹, Jui Wang², Tao-Hsin Tung², Shuo-Hui Hung¹, Ran-Chou Chen¹

¹Department of Biomedical Imaging and Radiological Sciences, School of Biomedical Science and Engineering, National Yang-Ming University, Taipei, Taiwan

²Faculty of Public Health, College of Medicine, Fu-Jen Catholic University, Taipei, Taiwan

SE 008

Role of Color Doppler Study in Living Donor Liver 240 Transplant: Experience of First Two Successful Liver Transplants in Bangladesh

Nasreen Sultana, Raihan Hussain, Mohitul Alam, Haider Ali Khan, Mohammad Ali

Department of Nuclear Medicine, 1. National Institute of Nuclear Medicine and Allied Sciences, BAEC, Bangladesh

SE 009

Accuracy of Ultrasound to Identify Liver Cirrhosis 24 in End Stage

Tsevelmaa Dorj1, Munkh-Od Enkhjargal1,

Vaanchigsuren Seesregdorj¹, Badamsed Tserendorj²¹Department of Radiology, Health Sciences University of Mongolia, Mongolia

²Department of Radiology, 3rd Central Clinical Hospital of Mongolia, Mongolia

SE 010

Computer-aided Classification of Liver Tumors in 24 3D Ultrasound Images with Combined Active Contour Model Segmentation and Support Vector Machine

Myungeun Lee, Jong Hyo Kim Department of Radiology, Seoul National University Hospital, Korea

SE 011

Evaluation of the Accuracy of Abdominal 241
Ultrasound Focusing on the Missed Lesions Based on
the Abdominal Computed Tomography in Health
Screening

Noh Hyuck Park, Yong Suk Jang Department of Radiology, Myongji Hospital, Korea

SE 012

Abdominal Wall Lesions Presenting as Palpable 242 Mass: Identified on Ultrasonography

Sung Eun Ahn, Seong Jin Park, Soung Kyung Moon, Joo Won Lim, Dong Ho Lee Department of Radiology, Kyung Hee University Medical Center, Korea

SE 013

Measurement of Hepatic Vascular Arrival Times at 242 Immediate Post-Transplantation Period Using Contrast Enhanced Ultrasonography

<u>Ji Hye Min</u>, Woo Kyoung Jeong, Won Jae Lee Department of Radiology, Samsung Medical Center, Korea

SE 014

Percutaneous Ultrasonography-Guided 243 Radiofrequency Ablation of Hepatocellular Carcinomas: Usefulness of Image Fusion with Three-Dimensional Ultrasonography

Hyun Jeong Park¹, Min Woo Lee², Hyunchul Rhim², Dong lk Cha², Sanghyeok Lim², Tae Wook Kang², Hyo K Lim², Kyoung Doo Song²

¹Department of Radiology, Chung-ang University Hospital, Korea

²Department of Radiology, Samsung Medical Center, Korea

243

SE 015

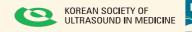
Doppler Ultrasound in Cirrhosis and Portal Hypertension: Beyond Flow Reversal

<u>Joon-II Choi</u>¹, Chandana Lall², Puneet Bhargava³, Mohammad Helmy², Sadhna Verma⁴,

Penny Roumanis², Laura Findeiss², David Imagawa⁵
¹Department of Radiology, The Catholic University of Korea, Seoul St. Mary's Hospital, Korea

²Department of Radiology, University of California, Irvine, USA

³Department of Radiology, University of Washington, USA ⁴Department of Radiology, University of Cincinnati, USA ⁵Department of Surgery-Hepatobiliary, University of California, Irvine, USA



| SE 016 | | 9 | SE 026 |
|--|---|------------------|--|
| Gast Rout Han Hyun ¹Dep Cent ²Dep at Ga | trointestinal Wall Lesions: Identified on tine Transabdominal Ultrasonography Na Lee¹, Sung Eun Ahn¹, Sung Kyoung Moon¹, n Cheol Kim², Seong Jin Park¹, Dong Ho Lee¹ hartment of Radiology, Kyung Hee University Mediater, Korea hartment of Radiology, Kyung Hee University Hosp hangdong, Korea | ital | A Case of Arteriovenous Malformation of Pancreas 248 Diagnosed by Pylorus-preserving Pancreaticoduodenectomy (PPPD): Doppler Ultrasonography, CT and MRI Findings Borahm Lee¹, Jeongeun Lee¹, Junsik Jo¹, Kyungsuk Sin¹, Insang Song², Kyunghee Kim³ ¹Department of Radiology, Chungnam National University Hospital, Korea ²Department of Surgery, Chungnam National University Hospital, Korea |
| with Popu Won Kyun | nal Right Hemidiaphragmatic Motion Measured M-Mode Ultrasonography in a Large Healthy ulation Hong Park, Jeong Eun Lee, June Sik Cho, ng Sook Shin | | ³ Department of Pathology, Chungnam National University Hospital, Korea |
| • | artment of Radiology, Chungnam National Univers pital, Korea | • | Breast |
| SE 018 | | | SE 027 |
| Ultra Treat Maliç Han Hye-' | parison of Contrast-Enhanced asonography and CT in Evaluation of Immediate atment Response after Radiofrequency Ablation gnant Hepatic Tumors A Lee, Young-Hwan Lee, See Sung Choi, Won Kim, Kwon-Ha Yoon artment of Radiology, Wonkwang University Hospi | of | Should Internal Mammary Lymph Nodes be Included in Breast Ultrasonographic Study for Women with Breast Cancer? Yi-Hong Chou¹, Hsiao-Chuan Liu¹, Chui-Mei Tiu¹, Hong-Jen Chiou¹, Hsin-Kai Wang¹, Yi-Chen Lai¹, Chih-Yi Hsu¹, Ling-Ming Tseng² ¹Department of Radiology, Taipei Veterans General Hospital, Taiwan ²Department of Surgery, Taipei Veterans General Hospital, |
| SE 019 | | | Taiwan |
| <u>Maria</u> Depa Indoi | ominal Tuberculosis with Hemolytic Anemia a Goretti Ametembun artment of Internal Medicine, Private Practice, nesia | 245 | SE 028 Breast Density Evaluation in Mammography and Ultrasound Examination in Mongolian Women Nergui Bayanzul¹, Tuvshinjargal Dashjamts², |
| Case Phai | artment of Radiology, Medic Medical Center HCM0 | 246 C, | Orkhon Gombosuren¹, Bolorsaikhan Baatar¹, Ariunbolor Odkhuu¹, Tuya Gansukh¹, Darkhijav Yanjiv¹, Tugsjargal Purevsukh² ¹Department of Radiology, UB Songdo Hospital, Mongolia ²Department of Radiology, Health Science University of Mongolia, Mongolia |
| SE 021 | | | SE 029 |
| Malig <u>Grac</u> Depa | ninant Liver Failure with Pseudocirrhosis from gnant Metastatic Breast Infiltration to Ho, KS Li, HL Lam artment of Radiology, Queen Mary Hospital, g Kong | | Photoacoustic Imaging of Gold Nanoparticle in Chicken Breast Tissue Meihua Zhang¹, Hoe Suk Kim¹, Yujin Sun¹, Ann Yi², Woo Kyung Moon¹ ¹Department of Radiology, Seoul National University |
| SE 022 Anei | urysmal Portal-hepatic Venous Fistula: | 247 | Hospital, Korea ² Department of Healthcare System Gangnam Center, Seoul |
| a Ca | se Report u Tran Ngan, Hai Phan Thanh | | National University Hospital, Korea |
| | <u>u Tran Ngan,</u> Hai Phan Thann artment of Radiology, Medic Medical Center, Vietn | am | SE 030 Polo of Ultracound as an Adjunct to Mammagraphy, 250 |
| SE 023 Appe | endiceal and Hepatic Mucormycosis in Adult unocompromised Patient | 247 | Role of Ultrasound as an Adjunct to Mammography 250 in Evaluation of Breast Masses Shelly Sharma Department of Radiology, Jaypee Hospital, India |
| <u>Seo-</u> Depa | youn Choi, Hae Kyung Lee, Min Hee Lee, Boem F artment of Radiology, Soonchunhyang University heon Hospital, Korea | la Yi | SE 031 Role of Targeted Breast Ultrasound as a Problem 250 Solver, in Cases of Breast Incidentalomas Detected on |
| Meta Sujin Hyun <i>Depa</i> | trointestinal Bleeding from Duodenal astatic Renal Cell Carcinoma: a Case Report in Ko, Seong Sook Hong, Ji Young Hwang, in Ju Kim, Jung Hwa Hwang artment of Radiology, Soonchunhyang University bital, Korea | 247 | Whole Body PET/CT in Patients of Non-breast Malignancies Shelly Sharma¹, Ankur Pruthi² ¹Department of Radiology, Jaypee Hospital, India ²Department of Nuclear Medicine, RGCI & RC, India SE 032 |
| SE 025 | | | Sonomammographic Evaluation of Dense Breasts 251 Indian Perspective |
| Acut Jewo Hyun <i>Depa</i> | ase of Terminal Ileal Diverticultis Mimicking the te Appendicitis: Ultrasonography and CT Finding on Jeong, Seong Sook Hong, Ji Young Hwang, In Ju Kim, Jung Hwa Hwang artment of Radiology, Soonchunhyang University bital, Korea | | <u>Sangeeta Saxena</u> Department of Radiology, Govt Medical College Kota India, India |

| Accuracy and Reproducibility of Shear Wave Lesions Eun Young Ko, Jung Whan Han, Boo-Kyung Han, Ji Soo Choi Department of Radiology, Samsung Medical Center, Korea SE 034 US-Guided Preoperative Localizations for Breast Lesions Eun Young Ko, Boo-Kyung Han, Eun Sook Ko, Soo Yeon Hahn, Ji Soo Choi Department of Radiology, Samsung Medical Center, Korea SE 035 You're in Good Hands with ABVS: Tips and Pitfalls of Automated Breast Volume Scanner Hyun Jung Koo. Joo Hee Cha, Hak Hee Kim, Hee Jung Shin, Eun Young Chae, Woo Jung Choi Department of Radiology, Asan Medical Center, Korea SE 036 Hyperechoic Breast Lesions at Ultrasonography Yoon Nae Seo, Young Mi Fark', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' Department of Radiology, Inje University Pusan Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma- associated Diseases Young Mi Park', Yoon Nae Seo, Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Be Be Chol Department of Radiology, Inje University Haeundae Paik Hospital, Korea Bengin Proliferative Disease of the Breast Showing Department of Radiology, Chungnam National University Hospital, Korea Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An', Bong Joo Kang', Sung Hun Kim' Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An', Bong Joo Kang', Sung Hun Kim' Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An', Bong Joo Kang', Sung Hun Kim' Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea University An', Bong Joo Kang', Sung Hun Kim' Department of Radiology, The Catholic Universit | Yun², Hospital, sity ty Bundang sity ct 255 ious |
|--|--|
| Ji Soo Choi Department of Radiology, Samsung Medical Center, Korea SE 034 US-Guided Preoperative Localizations for Breast Lesions Eun Young Ko, Boo-Kyung Han, Eun Sook Ko, Soo Yeon Hahn, Ji Soo Choi Department of Radiology, Samsung Medical Center, Korea SE 035 You're in Good Hands with ABVS: Tips and Pitfalls of Automated Breast Volume Scanner Hyun Jung Koo, Joo Hee Cha, Hak Hee Kim, Hee Jung Shin, Eun Young Khoe, Woo Jung Choi Department of Radiology, Asan Medical Center, Korea SE 036 Hyperechoic Breast Lesions at Ultrasonography Youn Nae Seo!, Young Mi Park', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Pusan Paik Hospital, Korea Department of Radiology, Inje University Pusan Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje University Haeundae Paik Hospital, Korea Department of Radiology, Inje Univer | the Hospital, sity Sity Bundang sity Ct 255 ious |
| SE 034 US-Guided Preoperative Localizations for Breast Lesions Eun Young Ko, Boo-Kyung Han, Eun Sook Ko, Soo Yeon Hahn, Ji Soo Choi Department of Radiology, Samsung Medical Center, Korea SE 035 You're in Good Hands with ABVS: Tips and Pitfalls of Automated Breast Volume Scanner Hyun Jung Koo, Joo Hee Cha, Hak Hee Kim, Hee Jung Shin, Eun Young Chae, Woo Jung Choi Department of Radiology, Asan Medical Center, Korea SE 036 Hyperechoic Breast Lesions at Ultrasonography Yoon Nae Seo', Young Mi Park', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma-associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma-associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Pusan Paik Hospital, Korea 'Department of Radiology, Inje University Pusan Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Department of Radiology, Chungnam National University Hespital, Korea SE 039 Ultrasonographic Features in Breast Malignancies Unique Manifestation Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea 'Department of Radiology, Korea University Anithology, Korea University Anithology Hospital, Korea 'Department of Radiology, Korea University Anithology Hospital, Korea 'Department of Radiology, Korea University Anithology Hospital, Korea 'Department of Radiology, K | Hospital, sity ty Bundang sity ct 255 ious |
| Lesions Eun Young Ko, Boo-Kyung Han, Eun Sook Ko, Soo Yeon Hahn, Ji Soo Choi Department of Radiology, Samsung Medical Center, Korea SE 035 You're in Good Hands with ABVS: Tips and Pitfalls of Automated Breast Volume Scanner Hyun Jung Koo, Do Hee Cha, Hak Hee Kim, Hee Jung Shin, Eun Young Chae, Woo Jung Choi Department of Radiology, Asan Medical Center, Korea SE 036 Hyperechoic Breast Lesions at Ultrasonography Yoon Nae Seo', Young Mi Park', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Pusan Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma- associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Pusan Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma- associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Pusan Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 038 SE 038 SE 039 Ultrasonographic Features in Breast Malignancies Unique Manifestation Bo Bae Choi Department of Radiology, Chungnam National University Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies 'Department of Radiology, Korea University Ans Korea Department of Radiology, Korea University Ans Korea Pepartment of Radio | ty Bundang sity ct 255 ious |
| So Yeon Hahn, Ji Soo Choi Department of Radiology, Samsung Medical Center, Korea SE 035 You're in Good Hands with ABVS: Tips and Pitfalls of Automated Breast Volume Scanner Hyun Jung Koo, Joo Hee Cha, Hak Hee Kim, Hee Jung Shin, Eun Young Chae, Woo Jung Choi Department of Radiology, Asan Medical Center, Korea SE 036 Hyperechoic Breast Lesions at Ultrasonography Yoon Nae Seo', Young Mi Park', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma- associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' Department of Radiology, Inje University Pusan Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Unique Manifestation Bo Bae Choi Department of Radiology, The Catholic University Hospital, Korea SE 039 Ultrasonographic Findings of Ruptured D Ectasia: from Definitings of Ruptured D Ectasia: from Defini | ct 255 |
| SE 035 You're in Good Hands with ABVS: Tips and Pitfalls of Automated Breast Volume Scanner Hyun Jung Koo, Joo Hee Cha, Hak Hee Kim, Hee Jung Shin, Eun Young Chae, Woo Jung Choi Department of Radiology, Asan Medical Center, Korea SE 036 Hyperechoic Breast Lesions at Ultrasonography Yoon Nae Seo', Young Mi Park', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Pusan Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma-associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma-associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Department of Radiology, Inje University Haeundae Paik Hospital, Korea 'Department of Radiology, Chungnam National University Hospital, Korea SE 039 Unique Manifestation Bo Bae Choi Department of Radiology, Chungnam National University Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yaong YiAn', Bong Joo Kang', Sung Hun Kim' 'Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea 'Department of Radiology, Korea University And Korea 'Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea 'Department of Radiology, Korea University And Korea 'Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea | ct 255 ious |
| For automated Breast Volume Scanner Hyun Jung Koo, Joo Hee Cha, Hak Hee Kim, Hee Jung Shin, Eun Young Chae, Woo Jung Choi Department of Radiology, Asan Medical Center, Korea SE 036 Hyperechoic Breast Lesions at Ultrasonography Yoon Nae Seo', Young Mi Park', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma- associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Pusan Paik Hospital, Korea 'Department of Radiology, Inje University Pusan Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Unique Manifestation Bo Bae Choi Department of Radiology, Chungnam National University Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An', Bong Joo Kang', Sung Hun Kim' 'Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea Department of Radiology, Korea University Anterior of Radio | ious |
| Hee Jung Shin, Eun Young Chae, Woo Jung Choi Department of Radiology, Asan Medical Center, Korea SE 036 Hyperechoic Breast Lesions at Ultrasonography Yoon Nae Seo', Young Mi Park', Suk Jung Kim², Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' Department of Radiology, Inje University Pusan Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma- associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim², Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' Department of Radiology, Inje University Pusan Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma- associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim², Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' Department of Radiology, Inje University Pusan Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Department of Radiology, Chungnam National University Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An', Bong Joo Kang', Sung Hun Kim² Department of Radiology, The Catholic University of Korea, St. Vincen's Hospital, Korea Department of Radiology, Korea University And Korea Department of Radiology, The Catholic University of Korea, St. Vincen's Hospital, Korea Department of Radiology, Korea University And Korea Department of Radiology, The Catholic University of Korea, St. Vincen's Hospital, Korea | ious |
| SE 036 Hyperechoic Breast Lesions at Ultrasonography Yoon Nae Seo!, Young Mi Park', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Pusan Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma- associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' SE 037 Fibroadenoma Variants and Fibroadenoma- associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Pusan Paik Hospital, Korea 'Department of Radiology, Inje University Pusan Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Unique Manifestation Bo Bae Choi Department of Radiology, Chungnam National University Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An', Bong Joo Kang', Sung Hun Kim' 'Department of Radiology, The Catholic University of Korea, St. Vincen's Hospital, Korea 'Department of Radiology, Korea University And Korea | ng Kang¹, |
| Hyperechoic Breast Lesions at Ultrasonography Yoon Nae Seo,' Young Mii Park', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Pusan Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma- associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim', Hyun Kyung Jung', Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Pusan Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Ultrasonographic Features in Breast Malignancies Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An', Bong Joo Kang', Sung Hun Kim' 'Department of Radiology, The Catholic University Anderse Pepartment of Radiology, The Catholic University of Korea 'Department of Radiology, The Catholic University of Korea 'Department of Radiology, The Catholic University of Korea 'Department of Radiology, The Catholic University of Korea 'Department of Radiology, The Catholic University of Korea 'Department of Radiology, Korea University Anderse Pepartment of Radiology, The Catholic University Anderse Pepartment of Radiology, Korea University Anderse Pepartment of Radiology, The Catholic University of Korea 'Department of Radiology, The Catholic University of Korea 'Department of Radiology, Korea University Anderse Pepartment of Radiology, Korea University Anderse Pepartment of Radiology, Korea University Anderse Pepartment of Radiology, The Catholic University of Korea 'Department of Radiology, Korea University Anderse Pepartment of Radiology, Korea University Anderse Pepartment of Radiology, Korea University Anderse Pepartment of Radiology, Korea University Anderse | |
| Seok Jin Chori, Sang Suk Han' 'Department of Radiology, Inje University Pusan Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma- associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim², Hyun Kyung Jung², Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Pusan Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Unique Manifestation Bo Bae Choi Department of Radiology, Chungnam National University Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An', Bong Joo Kang², Sung Hun Kim² 'Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea 'Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea 'Department of Radiology, Korea University Anteroperation | er, Korea |
| *Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 037 Fibroadenoma Variants and Fibroadenoma- associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim², Hyun Kyung Jung², Sun Joo Lee¹, Hye Jung Choo', Seok Jin Choi', Sang Suk Han¹ 'Department of Radiology, Inje University Pusan Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An¹, Bong Joo Kang², Sung Hun Kim² 'Department of Radiology, The Catholic University of Korea 'Department of Radiology, Korea University Ana Korea | |
| Fibroadenoma Variants and Fibroadenoma- associated Diseases Young Mi Park', Yoon Nae Seo', Suk Jung Kim², Hyun Kyung Jung², Sun Joo Lee', Hye Jung Choo', Seok Jin Choi', Sang Suk Han' 'Department of Radiology, Inje University Pusan Paik Hospital, Korea 'Department of Radiology, Inje University Haeundae Paik Hospital, Korea Benign Proliferative Disease of the Breast Showing Unique Manifestation Bo Bae Choi Department of Radiology, Chungnam National University Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An', Bong Joo Kang², Sung Hun Kim² 'Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea 'Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea 'Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea 'Department of Radiology, The Catholic University of Korea 'Department of Radiology, Korea University Ansence Addiology, The Catholic University of Korea 'Department of Radiology, Korea University Ansence Addiology, The Catholic University of Korea 'Department of Radiology, Korea University Ansence Addiology, Mational Cancer Cere Pepartment of Radiology, Wally Mim', Sung Hun Kim', | 256 |
| Application of Gel Pad To Automated Breast Ultrasonography Seok Jin Choi¹, Sang Suk Han¹ ¹Department of Radiology, Inje University Pusan Paik Hospital, Korea ²Department of Radiology, Inje University Haeundae Paik Hospital, Korea ²Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Unique Manifestation Bo Bae Choi Department of Radiology, Chungnam National University Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies Ultrasonographic Features in Breast Malignancies ¹Department of Radiology, Korea University Gundara 30 Years Old Yeong Yi An¹, Bong Joo Kang², Sung Hun Kim² ¹Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea ²Department of Radiology, Korea University Ans Korea | Hospital, |
| Hyun Kyung Jung², Sun Joo Lee¹, Hye Jung Choo¹, Seok Jin Choi¹, Sang Suk Han¹ ¹Department of Radiology, Inje University Pusan Paik Hospital, Korea ²Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Unique Manifestation Bo Bae Choi Department of Radiology, Chungnam National University Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies ¹Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea ²Department of Radiology, Korea University Anstorea ²Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea ²Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea ²Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea ²Department of Radiology, Korea University Anstorea | 256 |
| ¹Department of Radiology, Inje University Pusan Paik Hospital, Korea ²Department of Radiology, Inje University Haeundae Paik Hospital, Korea ²Department of Radiology, Inje University Haeundae Paik Hospital, Korea SE 038 Benign Proliferative Disease of the Breast Showing Unique Manifestation Bo Bae Choi Department of Radiology, Chungnam National University Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies ¹Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea ²Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea ²Department of Radiology, The Catholic University of Rospital, Korea Jae Jeong Choi³, Bong Joo Kang², Jeong Dan Kadiology, National Cancer Cer ²Department of Radiology, The Catholic University Rorea, Seoul St. Mary's Hospital, Korea ²Department of Radiology, Hallym University Sa Hospital, Korea SE 046 Isoehcoic Lesions of the Breast on Ultrasoun is Correlation Mammography Useful? Hye Seon Shin¹, Okhee Woo¹, Kyu Ran Cho², Bo Kyoung Seo³ ¹Department of Radiology, Korea University And Korea ²Department of Radiology, Korea University And Korea ²Department of Radiology, Korea University And Hospital, Korea | 230 |
| Korea, Seoul St. Mary's Hospital, Korea Benign Proliferative Disease of the Breast Showing Unique Manifestation Bo Bae Choi Department of Radiology, Chungnam National University Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An', Bong Joo Kang², Sung Hun Kim² 'Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea Korea, Seoul St. Mary's Hospital, Korea Bopartment of Radiology, Hallym University Sa Hospital, Korea Boepartment of Radiology, Hallym University Sa Hospital, Korea Isoehcoic Lesions of the Breast on Ultrasoun is Correlation Mammography Useful? Hye Seon Shin¹, Okhee Woo¹, Kyu Ran Cho², Bo Kyoung Seo³ 'Department of Radiology, Korea University Gukorea **Department of Radiology, Korea University And Korea **Department of Radiology, Korea University And Hospital, Korea **Department of Radiology, Korea University And Hospital, Korea | er, Korea |
| Benign Proliferative Disease of the Breast Showing Unique Manifestation Bo Bae Choi Department of Radiology, Chungnam National University Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An¹, Bong Joo Kang², Sung Hun Kim² ¹Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea ²Department of Radiology, The Catholic University of Lospital, Korea SE 046 Isoehcoic Lesions of the Breast on Ultrasoun is Correlation Mammography Useful? Hye Seon Shin¹, Okhee Woo¹, Kyu Ran Cho², Bo Kyoung Seo³ ¹Department of Radiology, Korea University Gu. Korea ²Department of Radiology, Korea University Ansterior Korea ²Department of Radiology, Korea University Ansterior Hospital, Korea | |
| Bo Bae Choi Department of Radiology, Chungnam National University Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An¹, Bong Joo Kang², Sung Hun Kim² ¹Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea ²Department of Radiology, The Catholic University of Corea (Corea) Isoehcoic Lesions of the Breast on Ultrasoun is Correlation Mammography Useful? Hye Seon Shin¹, Okhee Woo¹, Kyu Ran Cho², Bo Kyoung Seo³ ¹Department of Radiology, Korea University Gukorea ²Department of Radiology, Korea University Ansthospital, Korea ²Department of Radiology, Korea University Ansthospital, Korea | |
| Hospital, Korea SE 039 Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An¹, Bong Joo Kang², Sung Hun Kim² ¹Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea ²Department of Radiology, The Catholic University of Hospital, Korea ²Department of Radiology, The Catholic University of Hospital, Korea Wye Seon Shin¹, Okhee Woo¹, Kyu Ran Cho², Bo Kyoung Seo³ ¹Department of Radiology, Korea University Gukorea ²Department of Radiology, Korea University Ansthonyon Hospital, Korea **Department of Radiology, Korea University Ansthonyon Hospital, Korea **Department of Radiology, Korea University Ansthonyon Hospital, Korea | : 256 |
| Ultrasonographic Features in Breast Malignancies Under 30 Years Old Yeong Yi An¹, Bong Joo Kang², Sung Hun Kim² ¹Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea ²Department of Radiology, The Catholic University of Catholic University Oliversity Oliversi | |
| Yeong Yi An¹, Bong Joo Kang², Sung Hun Kim² ¹Department of Radiology, The Catholic University of Korea, St. Vincent's Hospital, Korea ²Department of Radiology, Korea University Ans Hospital, Korea **Department of Radiology, Korea University Ans Hospital, Korea | Hospital, |
| Korea, St. Vincent's Hospital, Korea *Department of Radiology, The Catholic University of *Control of Radiology, The Catholic University Only The Catholic University | n Hospital |
| | in |
| Norta, Sebui Si, Iviai v S i Iospilai, Norta | 057 |
| SE 040 Adding Ultrasound in the Evaluation of Patients Sonographic and Mammographic Features of Nodular Pseudoangiomatous Stromal Hyperpatients in the Breast | 257 asia |
| with Nipple Discharge Can Diagnose Additional Breast In Soo Moon ¹ , Young Mi Park ¹ , Yoon Nae Seo ¹ , | |
| Haesung Yoon, Jung Hyun Yoon, Eun-Kyung Kim, Haesung Moon, Min Jung Kim Department of Radiology, Inje University Pusal | Paik |
| Department of Radiology, Severance Hospital, Korea Plepartment of Radiology, Inje University Haeu. | |
| Unveiling the Bewildering Papillary Neoplasm of 254 SE 048 | dae Paik |
| Beforehand Dual Wide Field-of-View Imaging | |
| <u>Haesung Yoon</u> ', Min Jung Kim', Ja Seung Koo² 'Department of Radiology, Severance Hospital, Korea 'Department of Pathology, Severance Hospital, Korea Department of Pathology, Severance Hospital, Korea Jaeyoung Son, Jongho Park, Hyunjae Song, Jin Ho Chang, Tai-Kyong Song, Yangmo Yoo Department of Electronic Engineering, Sogang University, Korea | |



| SE 049 | | | SE 058 |
|---------------|---|---------------------|--|
| SE 050 | Vacuum-Assisted Breast Biopsy Under Sonographic Guidance: Analysis of A 10-year Experience Seung Hyun Lee, Eun-Kyung Kim, Min Jung Kim, Hee Jung Moon, Jung Hyun Yoon Department of Radiology, Severance Hospital, Korea | 258 | Multiple Symmetric Lipomatosis (Madelung's Disease): A Rare Cause of Pseudogynecomastia Woo Jin Yang¹, Jung Kyu Ryu¹, Sun Jung Rhee¹, Jeong Yoon Song² ¹Department of Radiology, Kyung Hee University Hospital at Gangdong, Korea ²Department of Surgery, Kyung Hee University Hospital at Gangdong, Korea SE 059 Breast Sparganosis and Incidentally Detected 262 Multiple Sparganosis in the Remaining Body: Imaging Characteristics and Pathologic Correlation Eunjee Song, Yu-Mee Sohn Department of Radiology, Kyung Hee University Medical Center, Korea |
| | Ultrasonographic Features? Sojung Kim, Kyunghee Ko, Hye Kyoung Jung, | | Cardiovascular |
| SE 052 | Are Irregular Hypoechoic Breast Masses on Ultrasound Always Malignancies? Youe Ree Kim, Yoogi Cha, Hye-Won Kim Department of Radiology, Wonkwang University Hospit Korea | 259 ital, | SE 060 The Features of the Pulmonary Artery Flow Spectrum in Tetralogy of Fallot in Fetus with Main Pulmonary Artery Stenosis Xiao Hong Zhang, Hai Yan Wang, Yu Ling Gong, Chuan Xi Liu Department of Radiology, Qianfushan Hospital Affiliatied Shandong University, China |
| SE 053 | Pseudoangiomatous Stromal Hyperplasia (PASH): a Series of 4 Cases Soo Jin Kim, Sung Hee Park, Mirinae Seo, Hyeshin Ahn Department of Radiology, Chung-ang University Hospi Korea | | SE 061 Percutaneous Treatment with Radiofrequency Needles of Residual Crosse Saphenofemoral Stump after Stripping Giovanni Turtulici, Mario Maturanza, Simone Schiaffino, Riccardo Sartoris, Enzo Silvestri |
| SE 054 | | 260 | Department of Radiology, Ospedale Evangelico Internazionale Genova Castelletto, Italy |
| | Radiologic Findings Jiyoon Park', Ok Hee Woo', Hye Seon Shin', Kyu Ran Cho², Bo Kyung Seo³ ¹Department of Radiology, Korea University Guro Hosp Korea ²Department of Radiology, Korea University Anam Hos Korea | oital, | SE 062 A New High PRF Fast Color Doppler Imaging Based on Sliding Angle Compounding Hyohee Kim, Sunmi Yeo, Yangmo Yoo Department of Electronic Engineering, Sogang University, Korea SE 063 Analysis of Angle Compounding on a Fast Color 264 |
| SE 055 | Sparganosis of The Breast and Lower Extremities: Sonographic Appearance Sung Hee Park ¹ , Seung Joon Choi ² , Min Jung Kim ² | 260 | Doppler Imaging: Phantom Study Hyohee Kim, Sunmi Yeo, Yeokyeong Yoon, Yangmo Yoo Department of Electronic Engineering, Sogang University, Korea |
| | ¹ Department of Radiology, Chung-ang University Hosp Korea ² Department of Radiology, Gachon University Gil Hosp Korea | , | SE 064 Fetal Double Outlet Right Ventricle Associated with 264 Severe Pulmonary Artery Stenois in Gestational Diabetes Mellitus Xuan-Hong Tomai¹, Minh-Le Nguyen² |
| SE 056 | A Solitary Axillary Lymph Node Metastasis without Breast Involvement from Ovarian Cancer: a Case Rewith Brief Literature Review Ji-in Choi, Soo Jin Kim Department of Radiology, Chung-ang University Hospi Korea | eport | ¹ Department of Obstetrics and Gynecology, University of Medicine and Pharmacy in Hochiminh City, Vietnam, Vietnam ² Department of Internal Medicine-Cardiology, Thong-Nhat Hospital, Vietnam |
| SE 057 | Sonographic Findings of Adenoid Cystic | 261 | Genitourinary |
| | Carcinoma of the Breast Hyo Soon Lim, Seo Yeon Park, Seo In Jeong Department of Radiology, Chonnam National Universit Hwasun Hospital, Korea | ty | SE 065 Contrast Ultrasonography in Ovarian Torsion- Confidence Boosting Initial Experience Asif Momin ¹ Shenaz Momin ² Avinash Gutte ² |

Mumbai, India

²Department of Radiology, B.Y.L Nair Hospital an T.N.

Confidence Boosting Initial Experience Asif Momin¹, Shenaz Momin², Avinash Gutte² ¹Department of Radiology, Prince Aly Khan Hospital,

Medical College, Mumbai, India

| SE 066 | | | SE 074 |
|---|--|------------------|---|
| Re <u>Ma</u> ¹ <i>De</i> | erapeutic Role of Ultrasound in Reposition of enal Calculi for Better Clearance, a Novel Method edan Mohan Gupta, Nandini Bahri epartment of Radiology, MP Shah Medical College, mnagar, India | 265 | Prostate Size and Volume in Normal Mongolians as Measured by Ultrasound for Baseline Reference Orkhon Gombosuren¹, Bolorsaikhan Baatar¹, Nergui Bayanzul¹, Delgerekh Sainjargal¹, Batsaikhan Narankhuu², Tuya Gansukh¹, Darkhantsetseg Battsengel¹, Tuvshinjargal Dashjamts³ |
| Tra Ult As <u>Ka</u> Am <i>D</i> e | ansvaginal Versus Transperineal trasonography: a Blinded Comparison in the isessment of Cervical Length in Preterm Labor outher Dimassi, Aymen Hammami, Salma Bennani, nel Triki, Mohamed Faouzi Gara epartment of Obstetrics and Gynecology, instetrics and Gynecology Unit, Mongi Slim Hospital, I | 265 | ¹ Department of Radiology, UB Songdo Hospital, Mongolia ² Department of Surgery, Intermed International Hospital, Mongolia ³ Department of Radiology, Health Science University of Mongolia, Mongolia SE 075 Ultrasound Finding of Tuberculous Epididymo- 269 |
| | arsa Tunisia, Tunisia | La | orchitis in Three Cases |
| SE 068 | | | Tai Le, Hai Phan |
| Pre | edicting the Duration of the Latency Period in eterm Premature Rupture of the Membranes Using trasound | 266 3 | Department of Radiology, MEDIC Medical Center, HCMC, Vietnam SE 076 |
| <u>Ka</u> Mo De Ob | nouther Dimassi, Ahmed Halouani, Amel Triki, ohammed Faouzi Gara epartment of Obstetrics and Gynecology, ostetrics and Gynecology Unit, Mongi Slim Hospital, I arsa Tunisia, Tunisia | La | A Study of Diagnostic Yield, Efficacy and Complications of Ultrasound Guided Renal Biopsy in Different Renal Pathologies Dinesh Chataut, Kamal Subedi Department of Radiology, Tribhuvan University Teaching |
| SE 069 | , | | Hospital, Kathmandu, Nepal |
| Po Mo Mo De Ob | trasound Assessment of Twin Anemia blycythemia Sequence chamed Zghaier, Kaouther Dimassi, Amel Triki, chammed Faouzi Gara epartment of Obstetrics and Gynecology, costetrics and Gynecology Unit, Mongi Slim Hospital, I | 266 La | SE 077 Initial Study on Correlation of Prostate Volume and 270 Blood PSA Level with Body-mass-index in Mongolian Tugsjargal Purevsukh¹, Orkhon Gombosuren², Nergui Bayanzul², Tuya Gansukh², Darkhijav Yanjiv², Tuvshinjargal Dashjamts¹ ¹Department of Radiology, Health Sciences University of |
| SE 070 | arsa runisia, runisia | | Mongolia, Mongolia |
| | trasound Management of Ectopic Pregnancy in | 267 | ² Department of Radiology, UB Songdo Hospital, Mongolia |
| Un <u>Mo</u> Mo <i>De</i> Ob | common Implantation Sites bez Attia, Kaouther Dimassi, Amel Triki, bhammed Faouzi Gara epartment of Obstetrics and Gynecology, bestetrics and Gynecology Unit, Mongi Slim Hospital, I | La | SE 078 Sonographic Parameter in Benign Prostatic 270 Hyperplasia Vaanchigsuren Seesregdorj¹, Tsevelmaa Dorj¹, Munkh-Od Enkhjargal¹, Badamsed Tserendorj² ¹Department of Radiology, Health Sciences University of |
| | onographic Appearances and Typing of the sticular Epidermoid Cysts | 267 | Mongolia, Mongolia ² Department of Radiology, 3rd Central Clinical Hospital of Mongolia, Mongolia |
| <u>Qir</u> De | ngda Song epartment of Radiology, Shandong Provincial Medica aging Research Institute, China | nl | SE 079 Ultrasound Findings in Patients with Chronic 271 Prostatitis |
| Bla You He | trasound Diagnosis in Inverted Papilloma of the adder ingguang Ban, Qinhua Luan, Qingda Song, Jianbo T ingtao Qi | 268 eng, | Munkh-od Enkhjargal¹, Tsevelmaa Dorj¹, Vaanchigsuren Seesregdorj¹, Badamsed Tserendorj² ¹Department of Radiology, Health Sciences University of Mongolia, Mongolia ²Department of Radiology, 3rd Central Clinical Hospital of |
| | epartment of Radiology, Shandong Medical Imaging | | Mongolia, Mongolia |
| SE 073 Eal of Mo Mo De Gy | esearch Institute, China Irly Diagnosis of Uncommon Implantation Sites Ectopic Pregnancies Chamed Zghaier, Kaouther Dimassi, Diez Attia, Amel Triki, Mohamed Faouzi Gara Expartment of Obstetrics and Gynecology, Obstetrics are precology Unit Mongi Slim Hospital La Marsa Tunisia | | SE 080 Sonoelastography and Contrast Enhanced Ultrasound of Renal Masses: are They Useful for Detection and Characterization of Benign and Malignant Renal Lesions? Sang Youn Kim, Sungmin Woo, Myong Seok Lee, Jeong Yeon Cho, Seung Hyup Kim Department of Radiology, Seoul National University Hospital, Korea |
| | | | SE 081 |
| | | | Tubo-Ovarian Abscess Related with Post- appendectomy Remained Appendicolith for One Year in a 19-Year-Old Female Jongchul Kim Department of Radiology, Chungnam National University Hospital Korea |



| SE 082 | | SE 091 | |
|--|------------------|--|-----------------|
| Malignant Melanoma in Vagina Mimicking Cervix Cancer Jongchul Kim Department of Radiology, Chungnam National Univers Hospital, Korea SE 083 | | US and MRI Findings of Spindle Cell Lipoma Arising from the Spermatic Cord Sung Kyoung Moon, Joo Won Lim Department of Radiology, Kyung Hee University Medical Center, Korea SE 092 | 276 |
| Long-term Experience of Transrectal Prostate Fiducial Markers Placement Sung Hwan Bae, Seong Sook Hong, Jiyoung Hwang Department of Radiology, Soonchunhyang University Hospital, Korea SE 084 Sonographic Findings of Perineal Diseases with | 273 273 | Wegener's Granulomatosis with Renal Involvement: 2 Imaging Findings Chong-ho Lee, Young-Hwan Lee, Kwon-Ha Yoon, Seong-hoon Park, Young Jun Sohn, Taeyeong Heo Department of Radiology, Wonkwang University Hospita Korea | |
| Perineal and Transvaginal Ultrasound Boem Ha Yi, Hae Kyung Lee, Min Hee Lee, | | Head & Neck | |
| Seo-youn Choi, Sun Huh Department of Radiology, Soonchunhyang University Bucheon Hospital, Korea SE 085 Evaluation for Combined Therapy of RF-Ablation with Double Anti-angiogenic Protein Using Contrast Enhanced Ultrasound in Murine Renal Carcinoma M Hong Young Jun¹, Jong-Hyun Ryu¹, Young Hwan Lee² Seung Jae Byun³, Kwon-Ha Yoon² ¹Department of Imaging Science based Lung and Bone Disease Research Center, Wonkwang University Hosp | 273 : odel | Differentiation Between Malignant from Benign/ reactive Lymph Nodes Madan Mohan Gupta, Nandini Bahri Department of Radiology, MP Shah Medical College, Jamnagar, India SE 094 | 277 277 |
| Korea ² Department of Radiology, Wonkwang University Hosp Korea ³ Department of Surgery, Wonkwang University Hospita Korea | oital, al, | Thyroid Parenchymal Echotexture Heung Cheol Kim Department of Radiology, Chuncheon Sacred Heart Hospital, Korea SE 095 | |
| SE 086 The Role and Clinical Significance of Simultaneous Scrotal Ultrasound (US) and Transrectal Ultrasound (TRUS) Examination in the Patients with Scrotal Pair Sung Kyoung Moon, Joo Won Lim Department of Radiology, Kyung Hee University Medic | n | The Assessment of Nasal Septal and Lateral Cartilage by Ultrasonography Heung Cheol Kim Department of Radiology, Chuncheon Sacred Heart Hospital, Korea SE 096 | 278 |
| Center, Korea SE 087 Ruptured Rudimentary Horn Pregnancy: Does Previous Normal Vaginal Delivery Safely Exclude It? Nitin Mishra, Nitin Yadav, Darshan Koshiya, Vikas Jhanwar Department of Radiology, SMS Medical College and | 274 | | 27 8 |
| Hospitals, Jaipur, India SE 088 Miscellaneous Tumor-like Lesions of the Ovary: US, CT, and MR Imaging Jung-Hee Yoon, Kyeong-Wha Rhyu, Seung-Ho Kim, Yedaun Lee, Kwang-Hwi Lee, Suk-Jung Kim, Ji-Hwa Ryu, Ok-Hwa Kim, Hong-Dae Kim | 275 | Ultrasound and MRI Findings of the Solitary Subcutaneous Neurofibroma: a Case Report Da Mi Kim Department of Radiology, Chungnam National University Hospital, Korea | 278 y |
| Department of Radiology, Inje University Haeundae Pa Hospital, Korea | aik | Musculoskeletal | |
| SE 089 Left Renal and Ovarian Venous Aneurysm: Imaging Features and Clinical Presentation Jeongin Yoo, Sung Bin Park, Jong Beum Lee, Hyun Jeong Park, Mack Shin Department of Radiology, Chung-ang University Hospit Korea SE 090 | 275 | SE 098 Evaluation of Medial Patellofemoral Ligament Tears after Acute Lateral Patellar Dislocations: Comparison of High-frequency Ultrasonography and I Guang Ying Zhang¹, Lei Zheng², Hong Yu Ding¹, Hao Sh ¹Department of Radiology, Qianfoshan Hospital of Shandong University, China ²Department of Radiology, Shandong Provincial Corps Hospital of Chinese People's Armed Police Force, China | ni¹ |

Ultrasound Follow-up of Testicular Adrenal Rest 276 Tumors with Congenital Adrenal Hyperplasia: Report of

Dong Won Kim, Seong Kuk Yoon, Jung Hyun Jo, Hee Jin Kwon, Jin Han Cho, Jong Young Oh, Kyung Jin Nam

Department of Radiology, Dong-A Medical Center, Korea

Three Cases

| SE 099 | S | E 108 | |
|---|---|--|-------------------|
| Evaluation of Articular Cartilage Lesions after Acute Lateral Patellar Dislocations: Comparison of Infrequency Ultrasonography and MR Guang Ying Zhang¹, Lei Zheng², Hong Yu Ding¹, Hao Standong Ying Zhang¹, Lei Zheng², Hong Yu Ding¹, Hao Standong University, China 2 Department of Radiology, Shandong Provincial Corps Hospital of Chinese People's Armed Police Force, Chin SE 100 Musculoskeletal Applications of Supersonic Shear Imaging (SSI): Pictorial Essay Hung Nguyen Department of Radiology, Medic Medical Center, Vietn | 279 High- Shi ¹ na 280 | Variable Ultrasonographic Findings of Lymphoma in Musculoskeletal System SeongJin Kim¹, Sun Joo Lee¹, Hye Jung Choo¹, Young Mi Park¹, Hae Woong Jeong¹, Kil Ho Cho², Sung Moon Lee³, Jae Hyuck Yi⁴ ¹Department of Radiology, Inje University Pusan Paik Hospital, Korea ²Department of Radiology, Yeungnam University Medical Center, Korea ³Department of Radiology, Keimyung University Dongsa Medical Center, Korea ⁴Department of Radiology, Kyungpook National Universit Hospital, Korea E 109 | n |
| SE 101 Developmental Dysplasia of the Hip of High Risk Neonates in an Outpatient Clinic Chau Tran Ngan, Hung Nguyen Thien, Hai Phan Thanh Department of Radiology, Medic Medical Center, Vietn SE 102 | 280 nam | How Many Each Portion of DVT Mimicking Disease in Patients who were Clinically Suspected DVT? Dong Joo Kang, Sun Joo Lee, Hye Jung Choo, Sang Suk Han, Hae Woong Jeong, Yeong-mi Park Department of Radiology, Inje University Pusan Paik Hospital, Korea E 110 | 284 |
| Sonographic Diagnosis of Occult Talar Fracture Chia-Yu Hsu¹, Yi-Pin Chiang² ¹Department of Rehabilitation Medicine, Ten-Chan General Hospital, Taiwan ²Department of Rehabilitation Medicine, Mackay Memorial Hospital, Taiwan SE 103 Sonographic Evaluation of Plantar Fasciitis and | 281 | The Efficacy of Sonoelastography in the Evaluation of Congenital Sternocleidomastoid Muscle Torticollis You Seon Song', In Sook Lee', Se Kyoung Park' 'Department of Radiology, Pusan National University Hospital, Korea 'Department of Radiology, Kosin University Gospel Hospital, Korea E 111 | |
| Relation to Body Mass Index and Heel Pad Thickness Kamal Subedi', Prashant Khatiwada ² 'Department of Radiology, Tribhuvan University Teach Hospital, Kathmandu, Nepal 'Department of Radiology, Kanti Children's Hospital, Kathmandu, Nepal | ing | | 285 ol, |
| SE 104 Comparison of the Capsular Thickening in Patients with Adhesive Capsulitis and Spastic Hemiplegic Shoulder Using Ultrasound Kwang Jae Lee, Yong-Soon Yoon, Ki Pi Yu, Eun Sil Kim Department of Rehabilitation Medicine, Presbyterian Medical Center, Korea | | Sonographic Diagnosis of Patellar Clunk Syndrome a Rare Complication after Total Knee Replacement Vince Lau ¹ , PK Chan ² ¹ Department of Radiology, Queen Mary Hospital, Hong Kong ² Department of Orthopedic Surgery, Queen Mary Hospit Hong Kong | |
| SE 105 Diagnostic Value of the Ultrasound in Patients with Various Causes of Median Neuropathy Around the V Yong-Soon Yoon, Kwang Jae Lee Department of Rehabilitation Medicine, Presbyterian Medical Center, Korea | 282 Vrist | E 113 Giant Cell Tumor of the Femur Detected by Ultrasound: A Case Report Liem Le Thanh, Hai Phan Thanh Department of Radiology, Medic Medical Center, Vietnal E 114 | 286 m |
| SE 106 Effects of Ultrasound-Guided Steroid Injection Therapy in Patients of Piriformis Syndrome Hee Seok Jeong, Guen Young Lee, Eu Gene Lee, Eu Gene Joe, Joon Woo Lee, Heung Sik Kang Department of Radiology, Seoul National University Bundang Hospital, Korea | 283 | Sparganosis of Upper Extremity in Subcutaneous and Intramuscular Layers Sung Hee Park¹, Hyo Min Lee², Yu Mi Jeong² ¹Department of Radiology, Chung-ang University Hospits Korea ²Department of Radiology, Gachon University Gil Hospits Korea | |
| SE 107 Superficial Thrombophlebitis: Sonographic Features and Clinical Implications Jung Eun Lee¹, Kyung Nam Ryu¹, Ji Seon Park¹, So Hee Yoon², So Young Park², Wook Jin² ¹Department of Radiology, Kyung Hee University Media | 283 | E 115 Arm Muscle Injury Finding Correlation Between US 2 and MR Dal Soo Park Department of Radiology, S-Seoul Hospital, Korea E 116 | 287 |
| Center, Korea ² Department of Radiology, Kyung Hee University Hosp at Gangdong, Korea | | | 288 |



| SE 117 | SE 126 |
|---|--|
| Compared with Ultrasound and MRI in Patient with 28 Achilles Tendon Rupture JoonBum Koo, Sungwon Kim | Performance Evaluation of PVDF Single Element 292 Transducers with Different Backing Materials Jun Su Lee, Jin Ho Chang |
| Department of Radiology, Dongguk University Medical Center, Korea | Department of Electronic Engineering, Sogang University, Korea |
| | SE 127 Quantitative Image Quality Evaluation of 292 |
| Pediatric | Ultrasound Imaging Systems |
| SE 118 | <u>Hyeongmin Jin,</u> Jong Hyo Kim, Myung Eun Lee Department of Radiology, Seoul National University |
| Pediatric Cystic Renal Diseases and Tumors: 28 Focus on the Spectrum | 8 Hospital, Korea SE 128 |
| Taeil Han ¹ , Eunkyeol Han ² ¹ Department of Radiology, University of North Carolina at Chapel Hill, USA | A New Smart Probe System for a Tablet PC-based 293 Point-of-Care Ultrasound Imaging System: Feasibility |
| ² Chapel Hill High School, USA | Study <u>Yeongnam Lee</u> ¹, Jeeun Gang¹, Sunmi Yeo¹, |
| SE 119 Doppler Sonographic Evaluation of Nutcracker 28 | Jaejin Lee¹, Gi-Duck Kim², Yangmo Yoo¹, Tai-Kyong Song¹ |
| Syndrome in Children: Comparison Between the Right Flank View and Anterior Abdominal View | ¹ Department of Electronic Engineering, Sogang University, Korea |
| <u>Young Hun Choi,</u> Jung-Eun Cheon, Hyun-Hae Cho, So Mi Lee, Woo Sun Kim, In-One Kim | ² Sogang Institute of Advanced Technoloty, Sogang University Research Foundation, Korea |
| Department of Radiology, Seoul National University Hospital, Korea | SE 129 |
| SE 120 | Selective Thermal Therapeutic of Deep-lying 293 Tissue by Combining Laser and Ultrasound Energies |
| Intraoperative Neurosonography Revisited: 28 an Effective Neuronavigation | 9 <u>Heamin Kim</u> ¹ , Jin Ho Chang ² ¹ Interdisciplinary Program of Integrated Biotechnology, |
| Jung-Eun Cheon ¹ , In-One Kim ¹ , Young Hun Choi ¹ , | Sogang University, Korea |
| So Mi Lee¹, Hyun Hye Cho¹, Seung- Ki Kim², Ji Hoon Phi², Woo Sun Kim¹ | ² Sogang Institute of Advanced Technology, Sogang University, Korea |
| ¹Department of Radiology, Seoul National University Hospital, Korea | SE 130 A New Multi-planar Reconstruction Method Using 294 |
| ² Department of Neurosurgery, Seoul National University Hospital, Korea SE 121 | Voxel Based Beamforming for 3D Ultrasound Imaging Hyun Seok Ju¹, Jae Hee Song², Yangmo Yoo¹ |
| Ultrasonographic Diagnosis of Ovary-Containing 28 | zwododi Goldworio montato, Gogarig i lavarioca montato |
| Hernias of the Canal of Nuck Dal Mo Yang, Hyun Cheol Kim, Sang Won Kim | Technology, Korea SE 131 |
| Department of Radiology, Kyung Hee University Hospital Gangdong, Korea | Color Twinkling Enhanced by a Controlled External 294 Mechanical Excitation |
| SE 122 | Jeonghwa Yang¹, Gwansuk Kang², Minjoo Choi² |
| Lumps and Bumps in the Groin in Children Hee Mang Yoon, Young Ah Cho, Jin Seong Lee, | O ¹Department of Radiotechnology, Cheju Halla University, Korea |
| Hye Kyung Yoon, Ah Young Jung, Chong Hyun Yoon Department of Radiology, Asan Medical Center, Korea | ² Department of Biomedical Engineering, Jeju National University, Korea |
| SE 123 | SE 132 |
| Abernethy Malformation: One of the Rare Cause of 29 Hepatopulmonary Syndrome | A Real-time Realization of an Automatic Dynamic 295 Range Adjustment Method on a Smart Mobile Device for |
| Vikas Jhanwar, Nitin Mishra, Sunil Agrawal, Anu Bhandhari, Amrita Maheshwari, Darshan Koshiya, | Point-of-Care Ultrasound Imaging Jeehoo Kim, Yeonhwa Lee, Yangmo Yoo |
| Rengarajan Rajagopal | Department of Electronic Engineering, |
| Department of Radiology, SMS Medical College, Jaipur (rajasthan), India | Sogang University, Korea SE 133 |
| | Phantom and In Vivo Evaluation of Sound Speed 295 |
| Physics | Estimation Methods: Preliminary Results Sooah Cho, Jeeun Kang, Yangmo Yoo Department of Electronic Engineering, |
| SE 124 Robust Flow Detection in Ultrasound Color Flow 29 | Sogang University, Korea |
| Imaging: a Real-Time GPU-Based Eigen-Filter Approach | SE 13/ |
| Adrian J. Y. Chee, Billy Y. S. Yiu, Alfred C.H. Yu Department of Medical Engineering, The University of Hor | ng Jae Hee Song¹, Tai-Kyong Song² ¹Medical Solutions Institute, Sogang Institute of Advanced |
| Kong, Hong Kong SE 125 | Technology, Korea |
| A New Feature-enhanced Speckle Reduction 29 Method Based on Multiscale Analysis and Synthesis fo | oogang oniversity, Norea |

Ultrasound B-mode Imaging

Korea

Jinbum Kang, Yangmo Yoo Department of Eletronic Engineering, Sogang University,

| • | |
|---|--|
| SE 135 | SE 142 |
| A New Phase Rotation Beamforming (PRBF) Based 297 on a Polyphase Delay Filter: Preliminary Results Gunho Lee¹, Jongho Park¹, Jeeun Kang¹, Jaejin Lee¹, Yangmo Yoo², Tai-kyong Song¹ ¹Department of Electronic Engineering, Signal Processing & System Lab, Medical Solutions Institute, Sogang University, Korea ²Interdicsiplinary Program of Integrated Biotechnology, Medical Solutions Institute, Sogang University, Korea | Shear Wave Elastography of Thyroid Nodules in a Large Scale Study: Is it a Predictor of Thyroid Malignancy? Ah Young Park¹, Eun Ju Son¹, Kyunghwa Han², Ji Hyun Youk¹, Jeong-Ah Kim¹, Cheong Soo Park³ ¹Department of Radiology, Gangnam Severance Hospital, Korea ²2Biostatistics Collaboration Unit, Gangnam Medical Research Center, Gangnam Severance Hospital, Korea ³Department of Surgery, Gangnam Severance Hospital, Korea |
| SE 136 Adaptive Sound Speed Correction for Medical 297 | SE 143 |
| Ultrasound Imaging: Preliminary Results Sewoong Ahn¹, Jeeun Kang¹, Tai-Kyong Song¹, Yangmo Yoo² ¹Department of Electronic Engineering, Sogang University, Korea ²Department of Interdisciplinary Program of Integrated Biotechnology, Sogang University, Korea SE 137 A New Nonlinear Zone-based Beamforming Method 298 for Point-of-Care Ultrasound Imaging Pilsu Kim¹, Jeeun Kang¹, Jaejin Lee¹, Gi-Duck Kim², Yangmo Yoo¹, Tai-kyong Song¹ | US Findings of Thyroid Metastasis in a Patient with 300 Hepatocellular Carcinoma Mimicking Liver Abscess: a Case Report Noh Hyuck Park¹, Tae Youn Rho² ¹Department of Radiology, Myongji Hospital, Korea ²Department of Radiology, Inha international Medical Center, Korea SE 144 Ultrasound Elastography Using Carotid Artery Pulsation in Differential Diagnosis of Sonographically Indeterminate Thyroid Nodules Woo Jung Choi¹, Jeong Seon Park², Hye Ryoung Koo², |
| ¹Department of Electronic Engineering, Sogang University, Korea ²Sogang Institute of Advanced Technology, Korea Thyroid | Soo-Yeon Kim³, Min Sung Chung⁴, Kyung Tae⁵ ¹Department of Radiology, Asan Medical Center, Korea ²Department of Radiology, Hanyang University Medical Center, Korea ³Department of Radiology, Hanyang University Guri Hospital, Korea |
| | ⁴ Department of Surgery, Hanyang University Medical Center, Korea |
| Infiltrative Pathologies of Thyroid Gland: Hard to Ignore-difficult to Diagnose Shenaz Momin¹, Asif Momin², Roshni Chinoy³, Avinash Gutte⁴ ¹Department of Radiology, Nair Hospital and T N Medical College, India ²Department of Radiology, Prince Aly Khan Hospital, India ³Department of Pathology, Prince Aly Khan Hospital, India ⁴Department of Radiology, Grant Medical College and J J Group of Hospitals, India | ⁵ Department of Otorhinolaryngology, Hanyang University Medical Center, Korea SE 145 Hyalinizing Trabecular Tumor of the Thyroid Gland: 301 Ultrasonography Features and the Role of Core-needle Biopsy Woo Jung Choi¹, Jung Hwan Baek¹, Eun Ju Ha², Young Jun Choi¹, Dong Eun Song³, Jin Yong Sung⁴, Hyun Ju Yoo⁵, So Lyung Jung⁶, Ha Young Lee⁷, Jeong Hyun Lee¹ ¹Department of Radiology, Asan Medical Center, Korea |
| Acoustic Radiation Force Impulse Imaging of 299 Thyroid Nodules at Medic Medical Center, Ho Chi Minh City Khanh Vo, Hung Nguyen Department of Radiology, Medic Medical Center, Vietnam | ² Department of Radiology, Ajou University Medical Center, Korea ³ Department of Pathology, Asan Medical Center, Korea ⁴ Department of Radiology, Daerim St. Marys Hospital, Korea |
| SE 140 | ⁵ Department of Pathology, Daerim St. Marys Hospital, |
| Benign Lesions That Mimic Thyroid Malignancy on Ultrasound Dong Wook Kim Department of Radiology, Inje University Pusan Paik | Korea Department of Radiology, The Catholic University of Korea, Seoul St. Mary's Hospital, Korea Department of Radiology, Inha University Hospital, Korea |
| Hospital, Korea | SE 146 Diagnosis of Thyroid Follicular Neoplasm: 302 |
| SE 141 Ultrasound-based T Staging in Preoperative 299 Papillary Thyroid Microcarcinoma Patients | Diagnosis of Thyroid Follicular Neoplasm: 302 Fine-needle Aspiration Versus Core-needle Biopsy Ra Gyoung Yoon ¹ , Jung Hwan Baek ¹ , Jeong Hyun Lee ¹ , |

Diagnosis of Thyroid Follicular Neoplasm: 302
Fine-needle Aspiration Versus Core-needle Biopsy
Ra Gyoung Yoon¹, Jung Hwan Baek¹, Jeong Hyun Lee¹,
Young Jun Choi¹, Dong Eun Song¹, Jae Kyun Kim²
¹Department of Radiology, Asan Medical Center, Korea
²Department of Radiology, Chung-ang University Hospital,
Korea

SE 147

Ultrasonography-Guided Ethanol Ablation of Cystic 302 and Predominantly Cystic Nodules: Factors Related with Outcome

Mirinae Seo, Soo Jin Kim, Sung Hee Park, Hye Shin Ahn Department of Radiology, Chung-ang University Hospital, Korea

Dong Wook Kim, Sun Jeong Moon

Hospital, Korea

Department of Radiology, Inje University Pusan Paik



SE 148

Thyroid Nodules with Initially Non-diagnostic, 303
Fine-needle Aspiration Results: Comparison of Coreneedle Biopsy and Repeated Fine-needle Aspiration
Sang Hyun Choi¹, Jung Hwan Baek¹, Jeong Hyun Lee¹,
Young Jun Choi¹, Min Ji Hong¹, Dong Eun Song²,
Jae Kyun Kim³, Jong Ho Yoon⁴, Won Bae Kim⁵
¹Department of Radiology, Asan Medical Center, Korea
²Department of Pathology, Asan Medical Center, Korea
³Department of Radiology, Chung-ang University Hospital,
Korea

⁴Department of Surgery, Asan Medical Center, Korea ⁵Department of Internal Medicine-Endocrine, Asan Medical Center, Korea

SE 149

Virtual Touch Tissue Quantification (VTQ) in the 303 Differential Diagnosis of Benign and Malignant Thyroid Nodules

<u>Seung Mi Ha</u>, Seong Whi Cho, Sam Soo Kim Department of Radiology, Kangwon National University Hospital, Korea

SE 150

Comparisons of Liquid-based Cytology and 304 Conventional Cytology on Thyroid Nodules: Prospective Study with Imaging-cytologic Correlations According to Bethesda System

<u>Chang Un Lee</u>¹, Soo Jin Kim¹, Sung Hee Park¹, Semin Chong¹, Mirinae Seo¹, Hye Shin Ahn¹, Han Suk Ryu² ¹Department of Radiology, Chung-ang University Hospital, Korea

²Department of Pathology, Seoul National University Hospital, Korea

SE 151

Head Rotation Technique in Thyroid
Ultrasonography: Focusing on Case Reviews
Chanyeong Park, Kwanseop Lee, Kyoon Soon Jung,
Jin Hee Moon, Ju Yeon Jung
Department of Radiology, Hallym University Sacred Heart
Hospital, Korea

SE 152

Antenatal Diagnosis of Fetal Goiter Due to
Hypothyroidism - A Rare Cause of Polyhydramnios
Vikas Jhanwar, Nitin Mishra, Sunil Kumar Agrawal,
Amrita Maheshwari, Meenu Bagarhatta,
Darshan Koshiya, Rengarajan Rajagopal
Department of Radiology, SMS Medical College, Jaipur
(rajasthan), India

SE 153

Hospital, Korea

Thyroid Hemangiomas Diagnosed on Sonography
Sung Hee Park¹, Soo Jin Kim¹, Hyun Kyung Jung²,
Hye Shin Ahn¹, Mirinae Seo¹
Department of Radiology, Chung-ang University Hospital,
Korea
Department of Radiology, Inje University Haeundae Paik



| Notes | | | | | | | |
|--|--|----------|--|--|--|--|--|
| | | | | | | | |
| | | | | | | | |
| | | and the | | | | | |
| | | <u> </u> | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| ************************************** | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



It's Pure!

Trust becomes reality



- High Hydrophilicity
- Low Protein Binding
- Low Enzyme Inhibition
- Low Histamine Release

Trust becomes reality

OMNIPURE™300/350 inj.











Korean Contrast Media



Brighten Your Way





Rational Volume



Strength of BONOREX® 350 Inj. / 130ml

- 1 Relieving the financial strains on patients' medical expenses
- Contribution to health insurance finance by reducing the drug reimbursement claims
- Reduction in importing cost of lodine, the main raw material of contrast agent
- 4 Reduction in disposal cost of the contrast agent in 20-30ml per usage
- **5** Environmental protection due to reduced waste treatment

Description: Clear, colorless to pale yellow solution in a colorless vial

Storage: Preserve in hermetic containers, protected from light.

Store at room temperature net exceeding 30°C

Presentation: BONOREX 300 Inj. - 10,50,100,150,500,1000ml

BONOREX 350 Inj. - 30,50,100,130,150,500,1000ml

Expiration Date: 36 months from the date of manufacture

BONOREX® 300 Inj.

Iohexol(USP) 647mg/ml(Iodine 300mg) Reimbursement code: 645101510

BONOREX® 350 inj.

Iohexol(USP) 755mg/ml(Iodine 350mg) Reimbursement code: 645101520



IntroducingLOGIQ E9 with XDclear

The LOGIQ* E9 with powerful XDclear transducer technology works hard for you every day to help achieve amazing depth and stunning resolution. Innovative B-Flow* technology empowers you to see flow in a different way. Enhance your efficiency with w orkflow tools that help simplify exam comparison and ease your burden in the measurement of complex cases. Astonishing technology for every day.

Make every day extraor dinary.



healthymagination



Experience a new healthcare solution

Samsung's total healthcare products and solutions help improve the quality of patient care and the efficiency of interactions in diagnosis, thus enriching you and your patient's healthcare experience.





The Fine Art of Liver Imaging

Liver-specific MRI with Primovist® offers

- Good detection, delineation and characterization, especially of small liver lesions (< 1 cm)¹
- Good tolerability²
- Superior liver imaging as compared to CT²
- ♦ High rate of correct diagnosis¹

Halavaara J. et al, Comput Assist Tomogr 2006; 30:345 – 354. Hammerstingl R. et al., Eur Radiol 2008; 18:457 – 467.

■ 제품명 프리모비스트 주사 ■주성분 산화가돌리늄, 이오비-디티피에이 ■호승·효과 긴의 자기공명앙상(MR)조정제: 병소확인 및 특성파악 ■ 용법·용량 성인: 이 약 0.1mL/kg을 2mL/sec의속도로 bolus정맥투여한다. 이 약 투여 후, 생라시엄주시액을 추기로 주입한다. (자세한 사항은 제품설명서 참조) ■ 사용상의 주의사항 1. 경고 급성 또는 만성의 중중 신청에 환자(GFR(30ml/min/1.73m2), 간성 신중후군으로 인한 급성 신부전 환자, 간이식 수술 전후의 급성 신부전 환자에서, 가돌리늄 조영제 투여는 신원성전신섬유증(NSF: Nephrogenic Systemic Fibrosis)의 발생 위한성을 증가시킨다. NSF는 피부, 근육, 내장기본에 영향을 미치는 소모성질환이며 때로는 지원적이다. 그러므로 이와 같은 환자들에게 단단성사가 반드시 필요하고 조영제를 사용하지 않는 MRI 잔단이 불가능한 경우를 제외하고, 가둘리늄 조영제 사용을 제한하다. 모든 환자들에 대하여 병력과 안상병리 감사결과를 확인하여 신가는장에가 있는지 점검해야 하며, 가돌리늄 조영제 등여한 변화 반다. 모든 환자들에 대하여 병력과 안상병리 감사결과를 확인하여 신가는장에가 있는지 점검해야 하며, 가돌리늄 조영제를 투여할 때 하기된 용량을 초리하여 사용하지 않아야 한다. 또한 재투여해야 할 경우 이전에 투여된 조영제가 배설되도록 충분한 시간을 둔 후 재투여한다. 2. 다음 환자나는 투여하지 말 것 1) 이 약의 주성분 또는 그 밖의 구성생인에 과민한 환자 2) 인공선박보조조정기 착용환자 3) 강자성 이사물 착용환자 4) 회복되지 않는 저갈륨함증 환자 3, 주요 이상반증 한자 3, 주요 이상반증 가장 반변한(2.5%) 이상반응: 구토, 두통, 작업감, 혈압상승, 어지라움. 가장 심각한 이상반응: 아니필락시스 반응 ■전문약상품 ■수입 및 판매자 바이엘코리아㈜ ■개정년월일 2012.08, 22 보다 자세한 사항은 제품설명서 전문 또는 바이엘 웹사이트, http://www.bayer.co.kr/healthcare를 참고하시기 바랍니다.



