

November 17-18, 2018 | Newilhan Memorial Hall, Severance Hospital, Seoul, Korea

Quiz

Scientific Session 5: USG Evaluation of Vascular AVF & Venous Disease

Lecture 2. Ultrasonography for AVF-related Complications in Japan

- 1. Which vessel do you measure blood flow of AVF?
 - ① Shunt Vein ② Axillary Vein ③ Brachial Artery ④ Artery Just before AVF
- 2. What does high RI (resistance index) of the brachial artery mean?
 - ① Excessive Blood Flow ② Low Cardiac Function ③ Stenosis in a Proximal Artery
 - 4 Increased Vascular Resistance

Lecture 3: Iliac Vein Stenting for May-Thurner Syndrome with IVUS

- 1. What is most common cause of May Thurner' syndrome?
 - 1 Left common iliac vein compression by right common iliac artery and vertebral body
 - 2 Right common iliac vein compression by left common iliac artery and vertebral body
 - 3 Inferior vena cava compression by right common iliac artery and vertebral body
 - 4 Radiation of abdomen after radical hysterectomy
 - 5 Direct tumor compression of left iliac vein



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Keynote Lecture: The Role of USG for Surgeon

Lecture 1. The Role of Intraoperative Ultrasound for a Liver Surgeon

- 1. What is the peculiarity of perflubutane as contrast media for ultrasound?
 - 1 Biliary enhancement 2 Accumulating in the Kupffer cells of the liver
 - 3 Contrast effect on normal B-mode ultrasound 4 Dedicated to children
- 2. Which surgical technique is IOUS indispensable for?
 - 1 Liver parenchymal transection 2 Hepatic inflow occlusion
 - 3 Anatomic resection of each Couinaud liver segment 4 Cholecystectomy

Lecture 2. Why Ultrasound Guided Liver Surgery Should Be Considered?

- 1. Are communicating veins useful when tumor detachment from the hepatic vein is suitable?
 - 1 No 2 Yes 3 Communicating veins are useful in case of invasion of glissonian pedicles
- 2. Compression of hepatic veins at caval confluence has to be carried out for performing an anatomical segmentectomy?
 - 1 Yes 2 No, it should be compressed the feeding glissonian pedicle
 - 3 Compressing vessel has no relation with anatomical resections

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Scientific Session 6: Ultrasound for Surgeon in Primary Care Clinic

Lecture 1. Ultrasound for Hernia

- 1. What is the more useful thing for the Ultrasound exam of the inguinal hernia?
 - 1 NPO state 2 Using convex probe 3 Standing position 4 Decubitus position
- 2. Which is the more easy direction for the Ultrasound exam of the inguinal hernia?
 - 1 from lateral to medial 2 from medial to lateral 3 from top to bottom 4 from bottom to top

Lecture 2. Ultrasound for Appendicitis

- 1. 다음 중에서 급성 충수염의 초음파 소견에 해당하지 않는 것은?
 - ① 압박되지 않는 충수전후직경이 7.0mm 이다.
 - ② 종대된 충수주위에 고에코의 지방침착이 동반되어 있다.
 - ③ 충수내강에 후방음영을 동반한 고에코의 충수분석이 있다.
 - ④ 충수내강에 반향음영을 동반한 고에코의 가스음영이 있다.
- 2. 다음 중에서 대장게실염의 초음파 소견이 아닌 것은?
 - ① 대장벽외부로 구형의 저에코성 돌출 병변 있슴 ② 대장게실 주위의 대장벽 비후소견 있슴
 - ③ 대장게실 주위의 고에코성 지방침착소견이 없슴. ④ 대장게실 주위조직의 혈류신호의 증가소견 있슴

Lecture 3: Endoanal Ultrasound: Which Place in the Management of Fecal Incontinence?

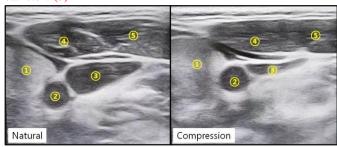
- 1. When assessing patients with fecal incontinence with endoanal ultrasound?
 - 1 The internal anal sphincter should be visualized as an hypoechoic ring
 - 2 The external anal sphincter should be visualized as and hypoechoic ring
 - 3 The external sphincter is longer in female than in male, anteriorly
 - 4 The anal canal is divided in four ultrasonographic levels of assessment

Lecture 4: Ultrasound for Acute Care

- 1. 다음 중 Pneumothorax 환자에서 보이는 초음파 소견은?
 - 1 Sea-Shore Sign 2 Sliding Sign 3 Barcode Sign 4 Bat Sign
- 2. 다음 중 Body Fluid 의 hydration 을 평가할 때 많이 사용하는 혈관은?
 - 1 SVC 2 IVC 3 Int. Jugular Vein 4 Femoral Vein

Lecture 5: Video Lecture - Sono Guided Vascular Access

1. Following figures are ultrasonographic findings of right side neck. Which is the target structure for indwelling central venous catheter? (3)



- 2. Which type catheter is the most vulnerable to catheter related blood stream infection?
 - ① Midline catheter ② Implanted chemoport ③ Tunneled cuffed dialysis catheter ④ Peripherally inserted central catheter
 - 5 Non-tunneled central venous catheter



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Luncheon Symposium 2

Lecture 1. The Evolution of Minimally Invasive Breast Biopsy

- 1. Advantages of Vacuum Assisted Biopsy compared with open surgical biopsy?
 - 1 Faster 2 Less invasive 3 Provides constant visualization of the lesion 4 All of the above
- 2. Which of the following is true?
 - ① Cytology provides a more complete diagnosis than histology
 - 2 FNA is superior to Vacuum Assisted Biopsy
 - 3 U/S guided Vacuum Assisted Biopsy can excise lesions up to 8 cm's
 - 4 FNA is an excellent method for obtaining calcifications



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Plenary Session 2: Cutting Edge Technology of USG-Guided Ablation for Breast & Thyroid Tumors

Lecture 1. The Efficacy and Safety of RFA for Primary and Recurrent Thyroid Carcinoma

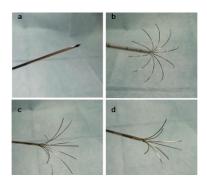
- 1. What is the indication of RFA for recurrent thyroid cancers according to current Korean guideline?
 - 1 Big recurrent tumor more than 2cm in largest diameter
 - 2 Lateral neck metastasis in previous lobectomy patients
 - 3 Inoperable patient
 - 4 Recurrent cancers more than 4 recurrent tumors
- 2. What is the best way to avoid thermal damage to nerves during RFA for recurrent thyroid cancers according to current Korean guideline?
 - 1 Hydrodissection technique 2 Small amount of local anesthesia 3 General anesthesia 4 Fixed electrode technique

Lecture 2. Role of High Intensity Focused Ultrasound (HIFU) in Benign Thyroid Diseases

- 1. Which of the following is not a recognized indication or inclusion criterion for high intensity focused ultrasound ablation of the thyroid gland?
 - (1) A large (>4cm) benign thyroid nodule that is causing symptoms and patient does not want surgery
 - 2 A benign thyroid nodule that measures between 9 30mm from the skin
 - 3 A recurrent thyroid cyst that has failed to shrink after several needle aspirations
 - 4 A growing, benign thyroid nodule that is causing local symptoms and patient does not want surgery
- 2. Which of the following sonographic sign represents the presence of microbubbles after high intensity focused ultrasound ablation?
 - Hypoechoic marks
 Hyperechoic marks
 Ultrasonic cavitation
 Reduced intranodular flow

Lecture 4: USG-Guided Thermal Ablation for Breast Cancer

- 1. Which one is a good indication of RFA?
 - 1 Tumors measuring up to 2cm 2 Tumors with EIC (extensive intraductal component)
 - 3 Invasive lobular carcinomas 4 Tumors with diffuse microcalcifications on mammography
- 2. Which types of needles do we use in our RFA study?



- (a) Cool-tipTM RF ablation system (Covidien, Boulder, CO, USA) is a straight needle design with trocar-style tips and internally circulates chilled water, cooling the tissue adjacent to the exposed electrode to maximize energy deposition and eliminate tissue charring.
- (2) **(b) LeVeen CoAccess electrode system** (Boston Scientific, Natick, MA, USA) is a coaxial system with an umbrella-shaped array-type electrode.
- 3 (c, d) StarBurstXL RFA device (AngioDynamics, Queensbury, NY, USA) is a multi-array needle electrode system with nine arrays plus active trocar tips and five thermocouples



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Scientific Session 7: Diagnosis of Breast Disease with USG

Lecture 1. USG-Guided VABB for Breast Microcalcificationa

- 1. Malignant potential of "Gouped microcalcifications"?
 - ① 6~16% **②** 16~36% ③ 26~46% **④** 36~56%
- 2. Innovative Ultrasound technique for detection and visualization of microcalcifications in Canon US system?
 - 1 Tissue Specific Optimization (TSO) 2 uperb Microvascular Imaging (SMI) 3 Micropure 4 Shear Wave Elastography (SWF)

Lecture 2. Application of BI-RADS in Breast USG Interpretation by Less Experienced Physicians

- 1. Which of the following lesions should be classified as Category 4?
 - 1 Circumscribed, oval, solid mass with parallel orientation
 - 2 Microlobulated or oval masses composed entirely of clustered microcysts
 - 3 Hyperechoic mass with central hypoechoic to anechoic components and surrounding edema
 - 4 Oval masses composed of solid and cystic component
- 2. Which of the following is not a helpful way to improve the accuracy of breast ultrasound interpretation?
 - 1 Microcalcifications on mammogram
 - ② Hardness on elastography
 - 3 Biopsy for all the ultrasound detected lesions
 - 4 Optical image quality

Lecture 3: Surveillance Ultrasound to Detect Breast Cancer Recurrence

- What are the current surveillance recommendations for women with personal history of breast cancer?
 - 1 Annual mammography alone 2 Physical examination and annual mammography
 - 3 Annual mammography and breast ultrasonography 4 Annual mammography and breast magnetic resonance imaging (MRI)
- Select one variable that is not a predictor of interval second breast cancers after surveillance mammography in women with a history of breast cancer.
 - 1 Age <40 at first breast cancer diagnosis 2 Fatty breast on mammography
 - 3 Grade of the first breast cancer 4 Treatment with breast conseration without radiation

Lecture 4: Technical Tips of USG-Guided Percutaneous Breast Biopsy to Reduce the False Negative Rate

- 1. 초음파 유도하 총생검의 장점으로 옳은 것은?
 - ① 방사선 노출이 적다 ② 위양성 결과가 없다. ③ 바늘 굵을수록 검사의 정확도가 높다
 - ④ 조직 검사 중 의사, 환자 모두에게 보다 편안한 방법이다.
- 2. 초음파에서 악성이 의심되는 소견을 보이는 경우, 초음파 유도하 CNB의 적응증으로 가장 옳은 것은?
 - 1 cm solid mass 2 Image pathology discordant case 3 Non-mass-like lesion 4 Complex cystic and solid mass