

SUMMARY OF SPEAKERS' PRESENTATIONS

How to achieve most from your EUS platform & Latest situation for diagnostic and therapeutic EUS in Japan

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How to achieve most from your EUS platform



Know your enemy and know yourself and you
can fight a hundred battles without disaster.

(Sun Tzu)

Know your enemy

✓ **Every EUS is not the same: What's the indication?**

- Pancreas? Biliary tract?
- Screening? Any findings in prior cross sectional imaging?

✓ **Always check CT/MRI "image" (not report)**

- Physicians who know clinical information are better than radiologists

Know yourself

✓ **Understand your EUS processor and scope**

- Frequency
- Focus
- Doppler (Color, Power)
- Tissue harmonic image
- CE-EUS, Elastography

Fujifilm EUS system: SU-1 + UG580T



A new convex EUS: UG580T



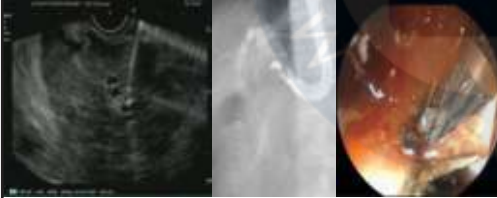
Viewing direction	Forward with 40° angle
Angle of view	140°
Distal end ø	13.9 mm
Insertion tube ø	12.4 mm
Bending capacity up/down	150°/150°
Bending capacity left/right	120°/120°
Operation channel ø	3.8 mm
Scanning area	150°

Olympus system: ME-2 + UCT260



iEUS

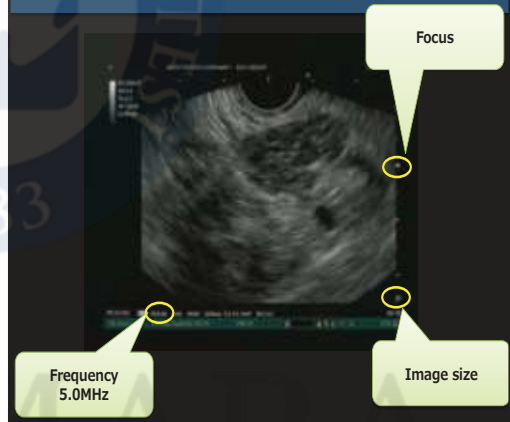
✓ **Interventional EUS:** EUS+Fluoro+Endo image



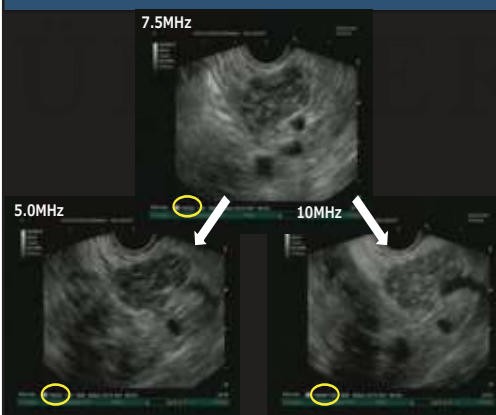
✓ **Integrated & Intelligent:** B-mode, THI, Elasto, Contrast



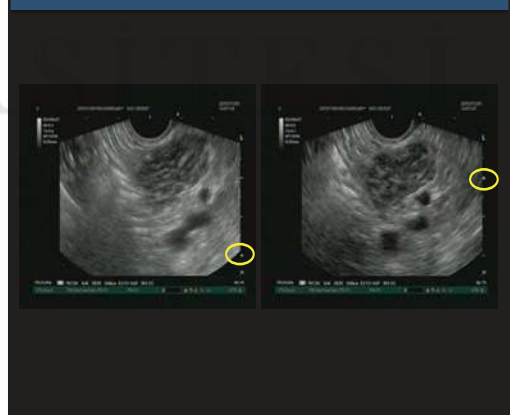
What's on EUS image

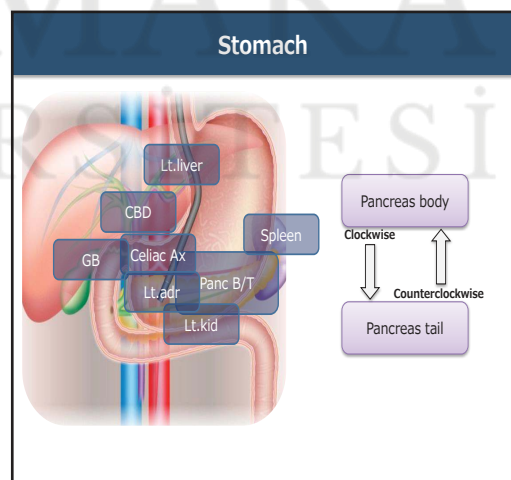
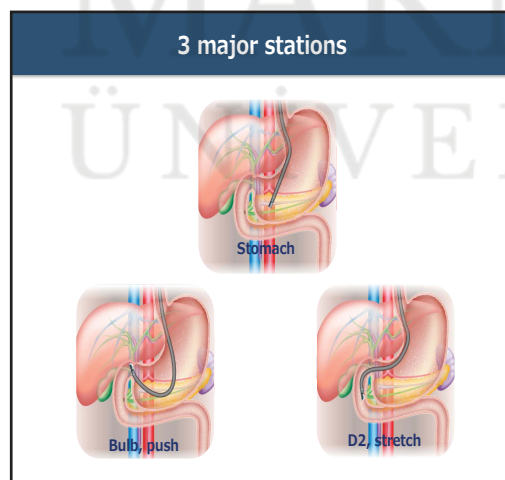
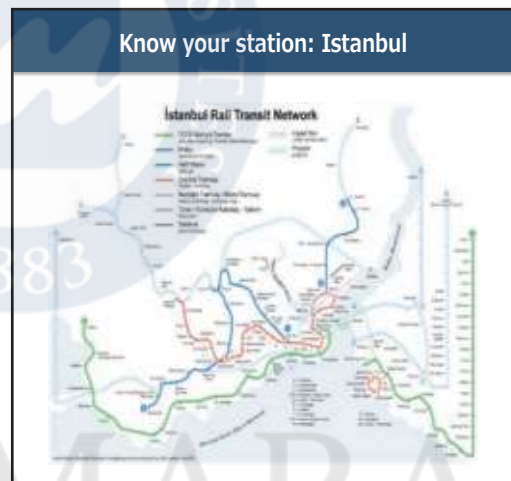
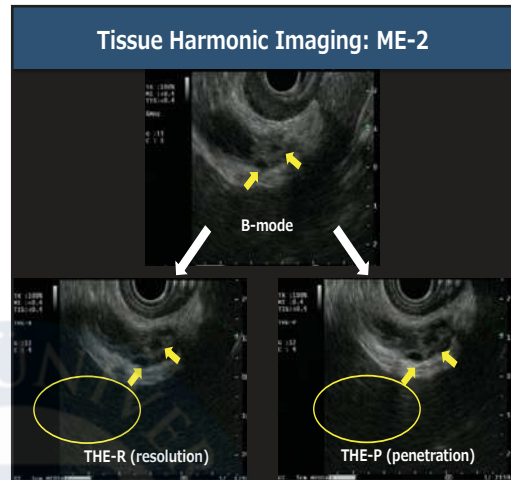
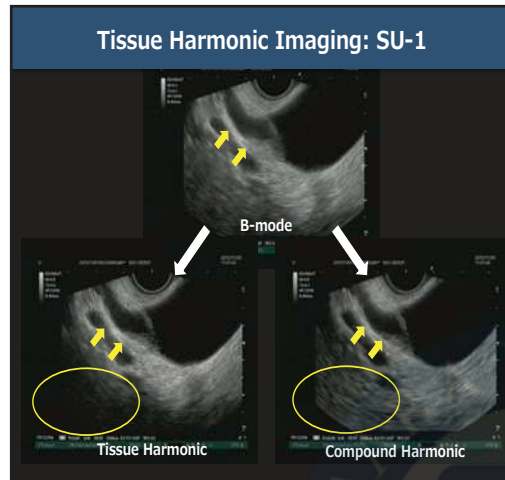


Frequency

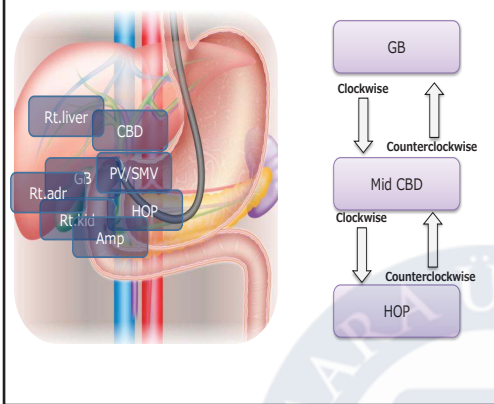


Focus

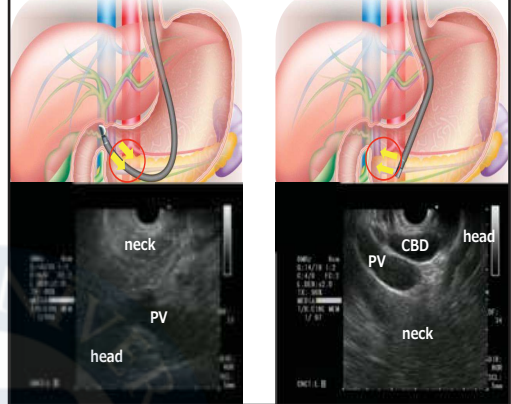




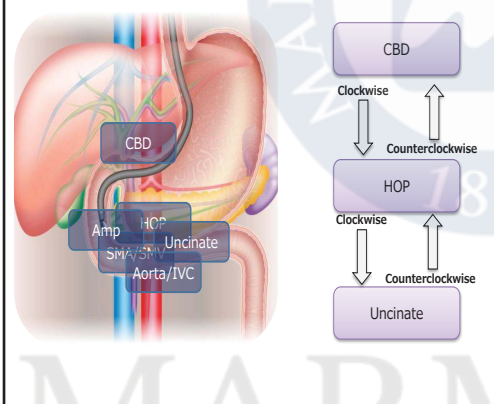
Bulb, push position



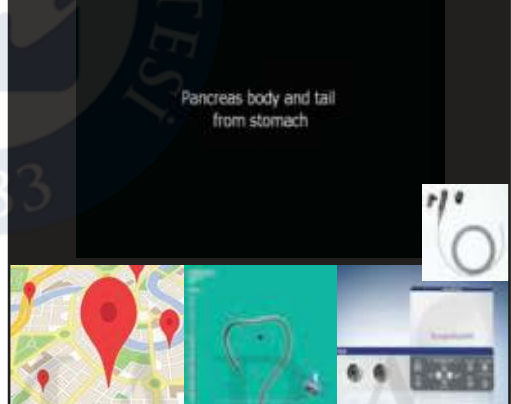
See across the river (PV)



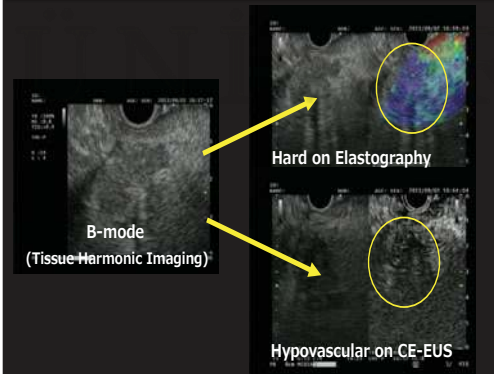
D2, stretch



Navigation?

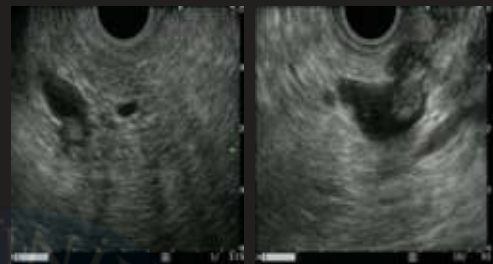
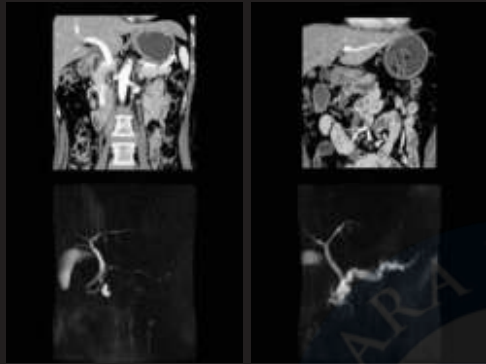


Ancillary function: ME-2

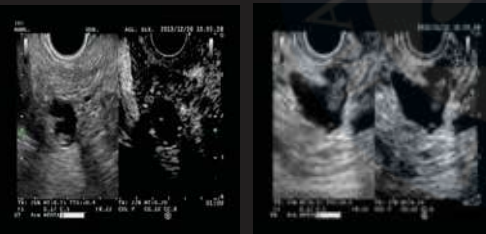


EUS-FNA: adenocarcinoma

CE-EUS: Mucin or nodule?



CE-EUS: Mucin or nodule?



Therapeutic EUS in Japan



- ✓ In 2012, EUS-BD received reimbursement code in Japan.
- ✓ Reimbursement of \$1750 (ERCP with biliary stent: \$950)

Japanese multicenter retrospective study of EUS-BD

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ISSN 0950-0804

ACQUAINTANCE

Multicenter retrospective study of endoscopic ultrasound-guided biliary drainage for malignant biliary obstruction in Japan

Kazumichi Kawakubo • Hiroyuki Iyama •
Hironori Kato • Takao Doi • Hiroshi Kawakami •
Naoki Hamada • Hirotsugu Ishikawa • Mitsuo Yoneda •
Hirofumi Kawamura • Fumihiko Endo •
Masaki Kawanishi • Tomohiko Ito •
Yoshiaki Matsuda • Shigeo Doi • Yumiko Nishii

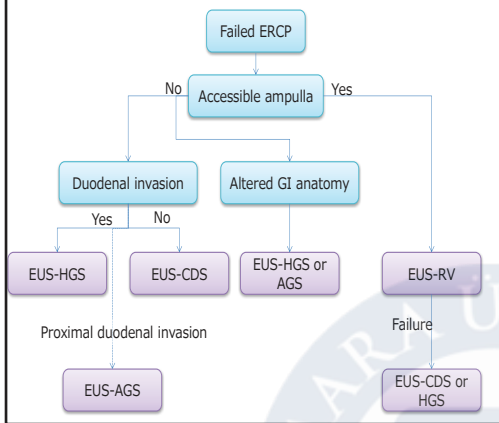
- ✓ 64 pts from 7 Japanese centers
- ✓ 44 EUS-CDS and 20 EUS-HGS

Japanese multicenter retrospective study of EUS-BD

16641.html; source: *Journal of Biological Chemistry* 279:16641-16648; doi:10.1074/jbc.M000001.200; pii: 16641

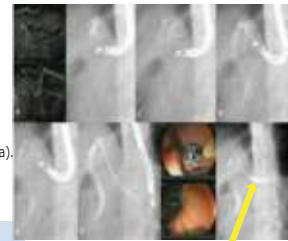
	East	SE Asia	SE Asia
Technical success, n (%), 95% CI	42 (95.23-96.6)	43 (95.34-96.6)	38 (95.38-96.6)
Days to discharge, n (%), 95% CI	17 (23.14-27.5)	30 (41.12-46.1)	9 (22.59-27.5)
Costs of care (USD)			
Surgery, n	3	4	3
Medicine, n	0	0	0
Nursing, n	1	0	1
Dietician services, n	1	0	1
Time to care (days/median, days (range))	36	36	42
1-month dysphagia-free status, n (%)	77	80	51
2-month dysphagia-free status, n (%)	36	30	19
Overall survival, days/median (95% CI)	173 (96-246)	176 (96-271)	182 (94-262)
Follow-up period, days/median (range)	39 (4-140)	47 (14-126)	39 (14-115)
Complications, n (%), 95% CI	27 (59.15-66)	37 (54.9-67.5)	37 (88.14-95)
Bleed-backs, n	3	3	3
Nose regurgitation, n	2	3	2
Pneumonia, n	3	3	3
Pneurocysticercosis, n	1	1	1
Cholelithiasis	1	0	1
Hypoxia, n	1	1	1
Pneumonia, n	1	1	1

EUS-BD algorithm



HGS: A long partially covered SEMS (LP-CMS)

A modified-GIOBOR:
10-mm x 10- or 12-cm in length
1-cm uncovered
(TaeWoong Medical Inc., Gimpo, Korea).
The size of delivery system is 8.5 Fr.



Stent length in the stomach: 45 mm

No stent dislocation observed in 34 pts

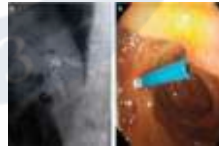
EUS-HGS after gastrojejunostomy for duodenal cancer



CDS as primary drainage

Prospective Clinical Study of EUS-Guided
Choledochoduodenostomy for Malignant Lower
Biliary Tract Obstruction

Prospective clinical study of endoscopic ultrasound-
guided choledochoduodenostomy with direct metallic
stent placement using a forward-viewing echobioscope



Technical success rate >90%

Early complications ≈10%

CDS as primary drainage: Japanese multicenter study

- ✓ EUS-CDS for unresectable distal MBO
- ✓ Primary biliary drainage
- ✓ Covered WallFlex
- ✓ 10 Japanese centers

Technical success	97%*	
Functional success	100%	
Median procedure time (range), min	25(8-60)	
Stent dislocation	Incidence	Time to dislocation
Migration	5 (15%)	129 (31-225) days
Cholangitis*	6 (18%)	146 (3-349) days
Adverse events	Incidence	Time to complications
Abdominal pain*	3 (9%)	0
Cholecystitis*	3 (9%)	14 (3-164) days
Pancreatitis	0	-
Bile peritonitis	0	-



EUS-BD: Indication?

