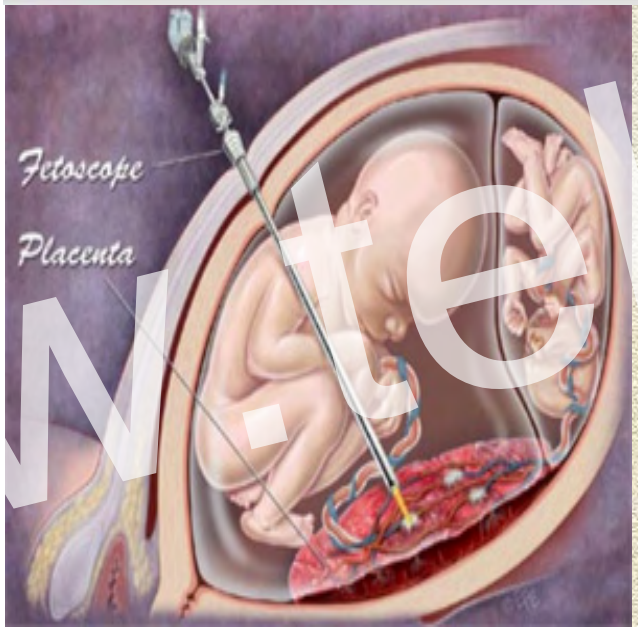
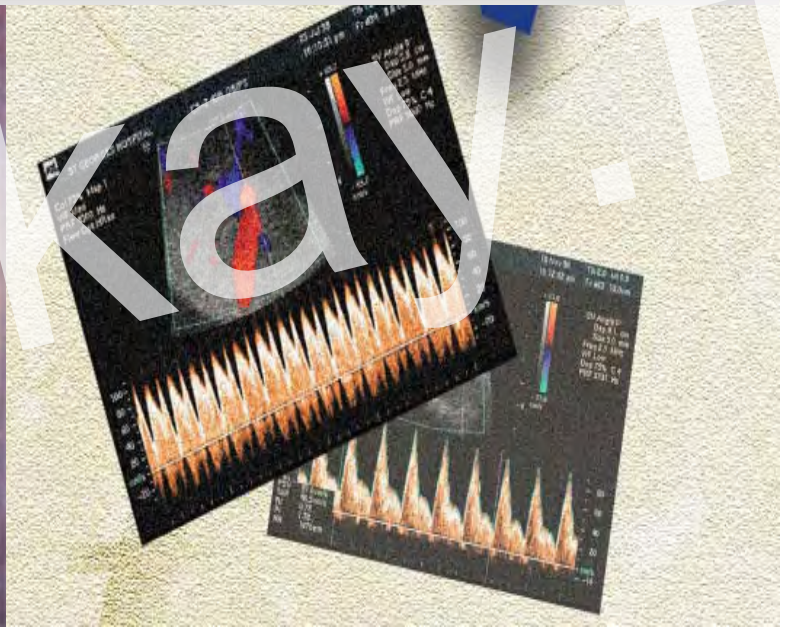
SITU

Synnytysten ja naistentautien klinikka
OYS





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Ruoansulatuskanava

Aydin Tekay

25.5.2012 – EGO - OULU

Esophageal atresia

Incidence	1:2000-3000
Pathogenesis	final relative length by 9 weeks, recanalization by week 10. Due to deviation of tracheaesophageal septum
Associated abnormalities	30-70% (CVS 28%, GIS 23%, GUS 19%, skeletal 18%) Tracheoesophageal fistula (85%)
Chromosomal abnormalities	Trisomy 18
Misc.	IUGR (40%)
Detectable in USS	**Polyhydramnion + absent / small stomach**

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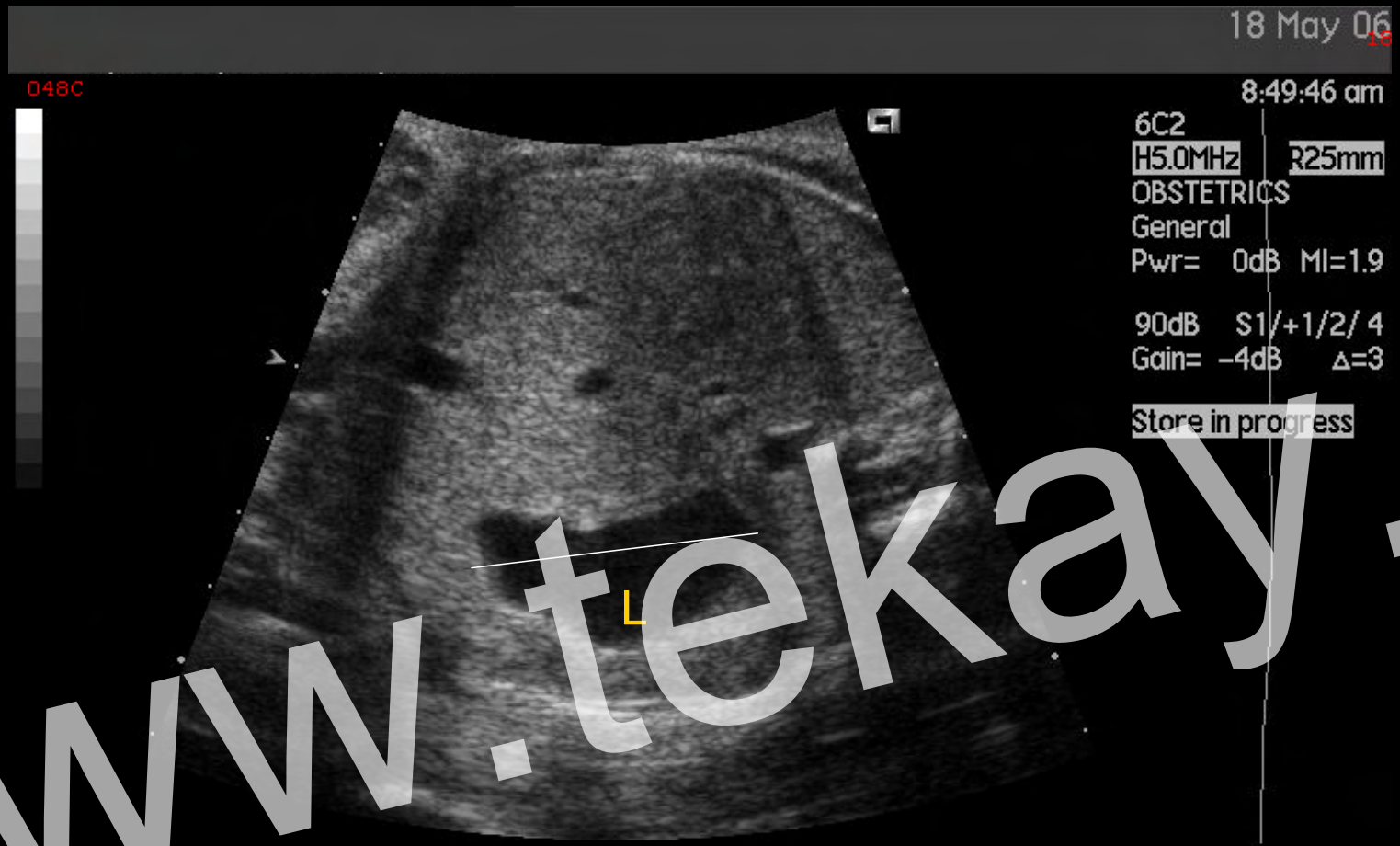

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	AP	Transverse	Longitudinal
19-24w	0.8-0.9 cm	0.9-1.8 cm	1.5-2 cm

Incidence: 0.4-2% Abnormal outcomes in 45-66%


RAB 4-8L/Obstetric
MI 1.2
OYS / NKL
010382-132F
12.5cm / 37Hz
14-11-2005
02:17:56 PM
Routine
Har-low
Pwr 100 %
Gn 15
C7 / M7*
P5 / E1
GE
Cine 498
14 sec
www.tekay.fi

Pyloric stenosis

Incidence	1:1000000
Pathogenesis	A failure of gastrointestinal recanalization
Associated abnormalities	5% (duodenal stenosis, aortic coarctation) Pyloric atresia (epidermolysis bullosa)
Chromosomal abnormalities	-
Other	
Detectable in USS	**Polyhydramnion (third trimester, 50%) + large stomach** 22 weeks

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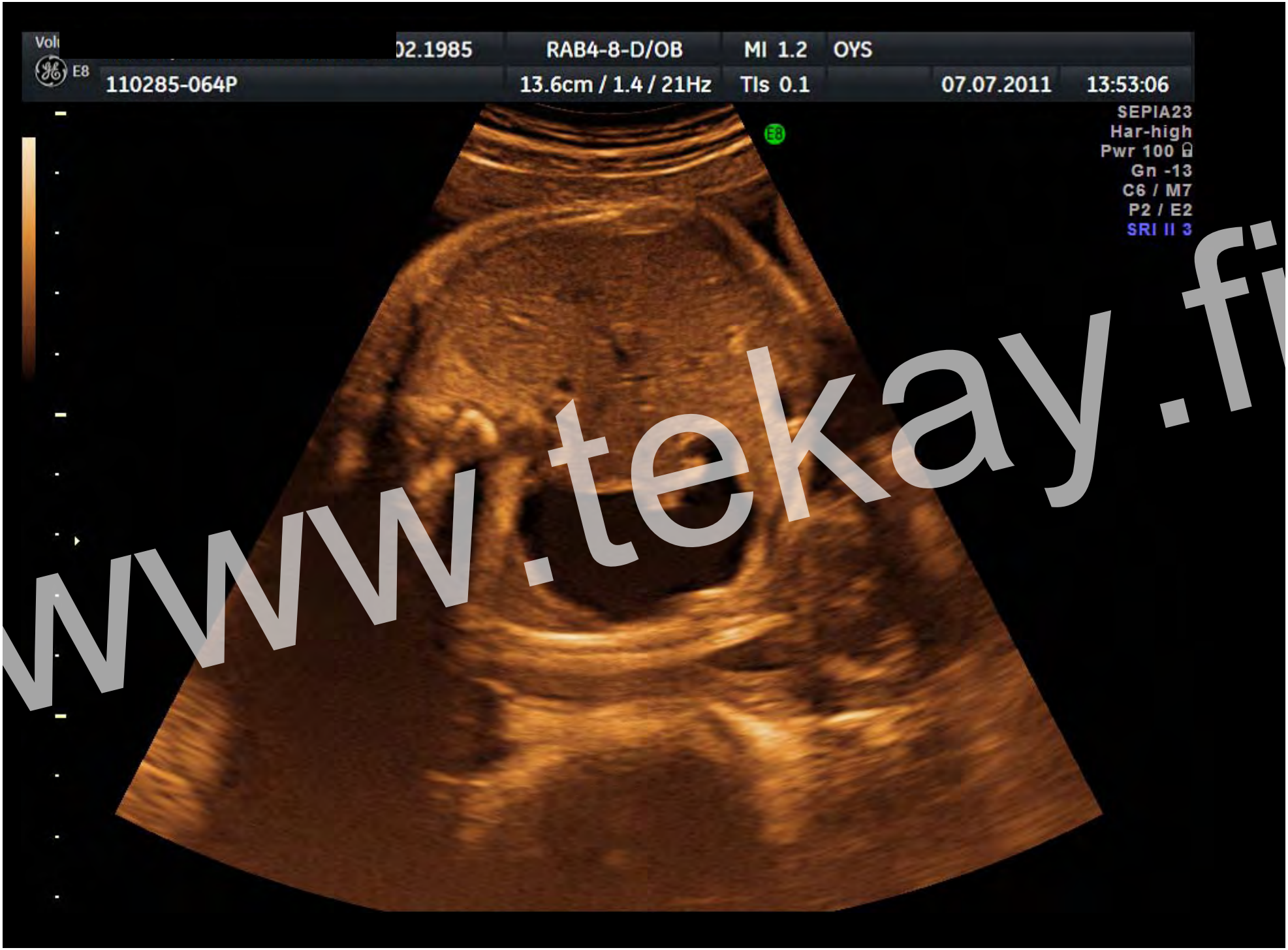
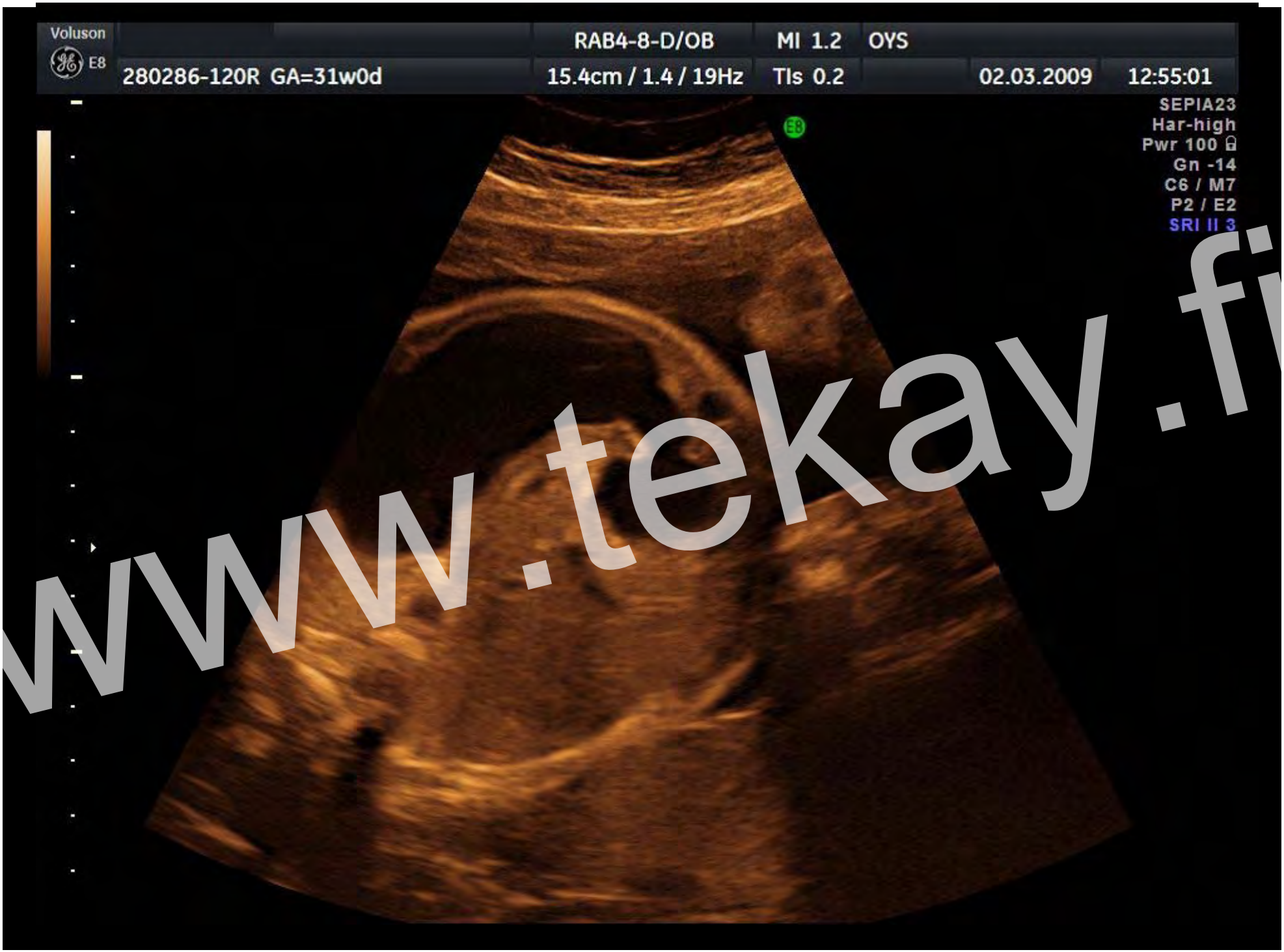

Voli
E8
02.1985
RAB4-8-D/OB
MI 1.2
OYS
110285-064P
13.6cm / 1.4 / 21Hz
TIs 0.1
07.07.2011
13:53:06
SEPIA23
Har-high
Pwr 100
Gn -13
C6 / M7
P2 / E2
SRI II 3
E8
www.tekay.fi


Voluson
E8
RAB4-8-D/OB
MI 1.2
OYS
280286-120R GA=31w0d
15.4cm / 1.4 / 19Hz
TIs 0.2
02.03.2009
12:55:01
SEPIA23
Har-high
Pwr 100
Gn -14
C6 / M7
P2 / E2
SRI II 3
www.tekay.fi

Duodenal atresia

Incidence	1:3000-4500
Pathogenesis	6 weeks, 6-8 weeks temporarily obliterated, recanalisation by week 9-10
Associated abnormalities	7% esophageal atresia 40% intestinal malrotation 1% hepatobiliary, pancreatic duct anomalies 20-36% CHD 33% vertebral anomalies
Chromosomal abnormalities	30% (trisomy 21)
Other	
Detectable in USS	**Polyhydramnion (50%) + enlarged stomach & duodenum (double bubble)** Late 2nd or early 3rd trimester
Differential Diagnosis	Abdominal cysts with enlarged stomach

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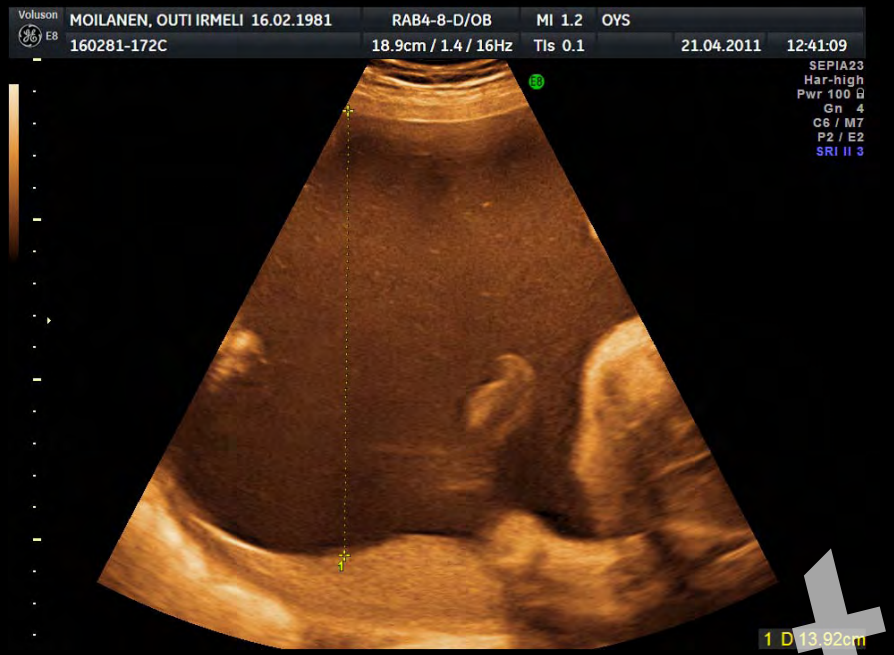
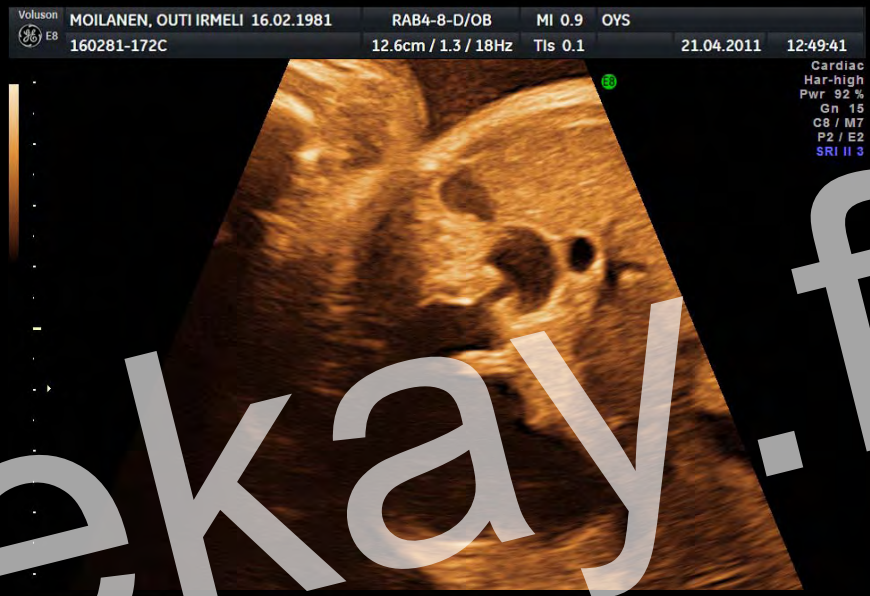
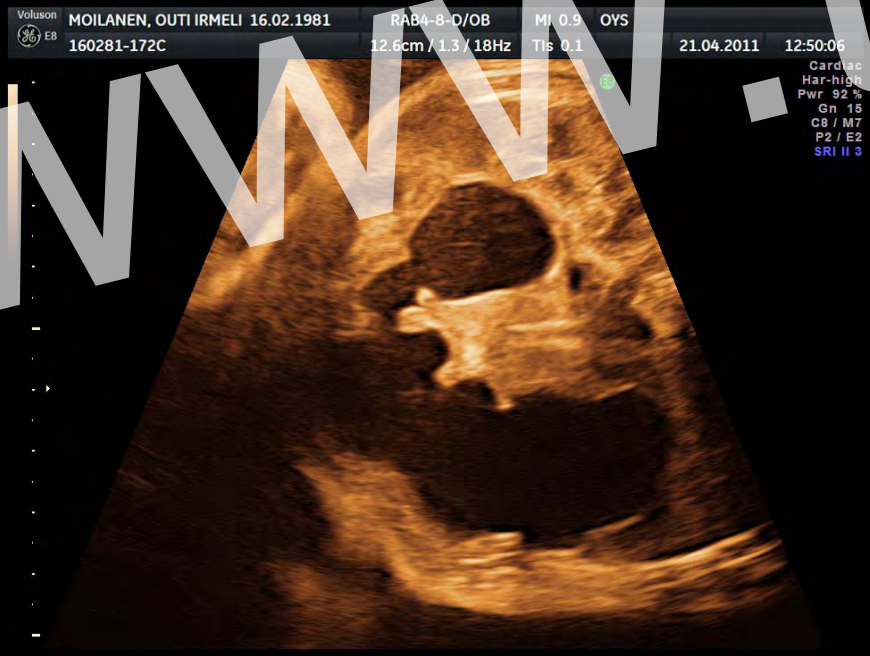
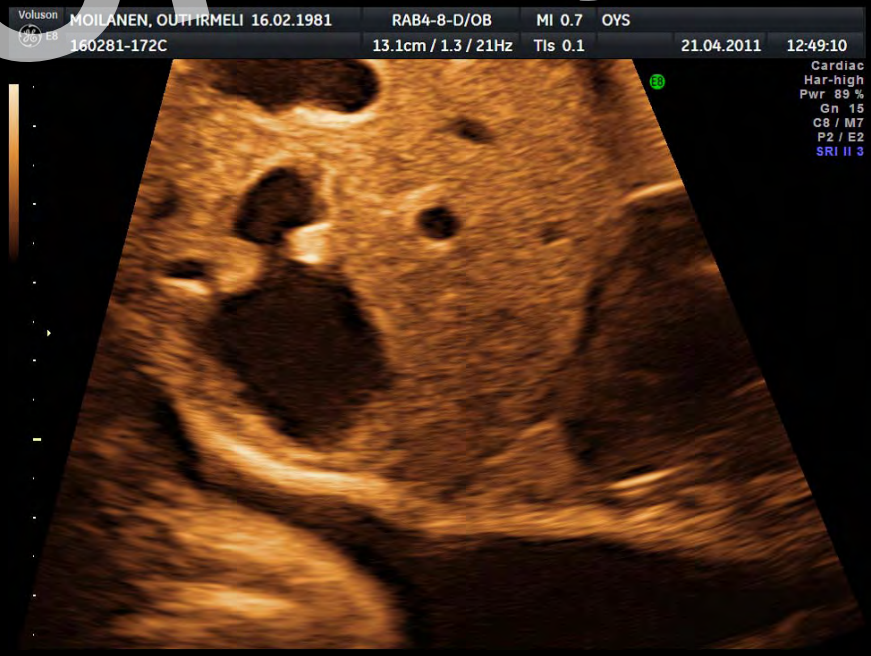
Duodenaaliatresia









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Bowel obstruction

Incidence	1:2700
Pathogenesis	Interruption of blood supply to a segment (jejunum 50%, ileum 43%, both 7%)
Associated abnormalities	7% - intestinal anomalies (omphalocele, meconium peritonitis and volvulus)
Chromosomal abnormalities	-
Other	Cystic fibrosis (18-36%)
Detectable in USS	**Internal diameter of small bowel >7mm** **Midabdominal dilatations** **Bowel hyperperistalsis** **Abdominal calcifications & ascites (perforation!)** **Polyhydramnios (proximal occlusions)**

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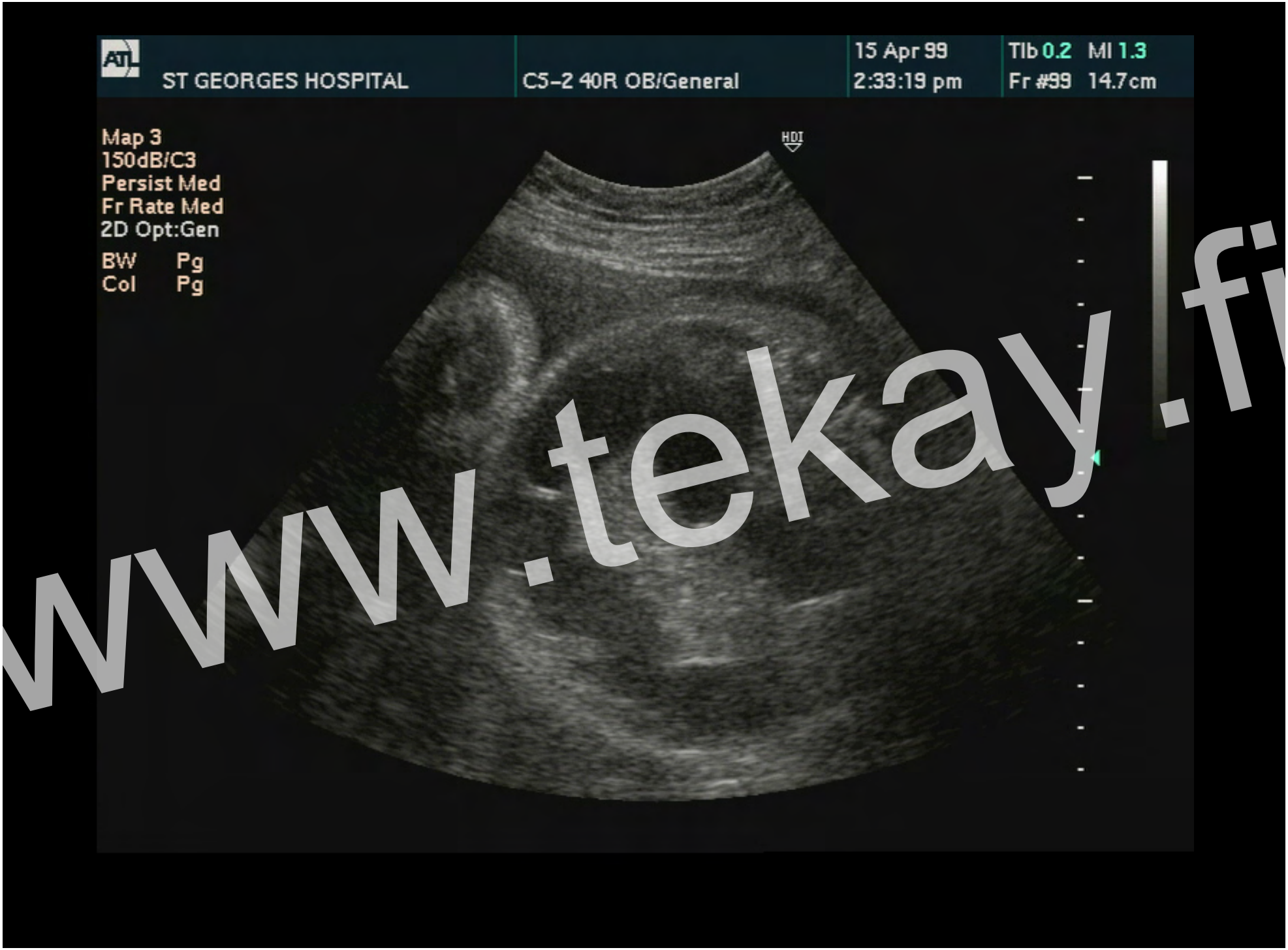
ST GEORGES HOSPITAL
C5-2 40R OB/General
15 Apr 99
2:33:19 pm
TIb 0.2 MI 1.3
Fr #99 14.7cm
Map 3
150dB/C3
Persist Med
Fr Rate Med
2D Opt:Gen
BW Pg
Col Pg
HDI
www.tekay.fi


Voluson
E8
KOSKELA, LAURA RIITTA SUSANNA 18.0
RAB4-8-D/OB
MI 1.2
OYS
180981-036X
15.4cm / 1.4 / 19Hz
TIs 0.1
16.06.2011
14:01:05
SEPIA23
Har-high
Pwr 100
Gn 4
C6 / M7
P2 / E2
SRI II 3
IITTA SUSANNA 18.0
RAB4-8-D/OB
MI 1.2
OYS
15.4cm / 1.4 / 19Hz
TIs 0.1
16.06.2011
13:58:42
SEPIA23
Har-high
Pwr 100
Gn 4
C6 / M7
P2 / E2
SRI II 3
www.tekay.fi

Meconium Peritonitis

Incidence	1:35000
Pathogenesis	In utero bowel perforation => sterile chemical peritonitis
Associated abnormalities	Bowel perforation
Chromosomal abnormalities	-
Other	Cystic fibrosis (8-40%)
Detectable in USS	**Ascites + meconium pseudocyst** **Calcifications (86%, at least 8 days after perforation)** **Bowel dilation** **Polyhydramnios**
Differential Diagnosis	

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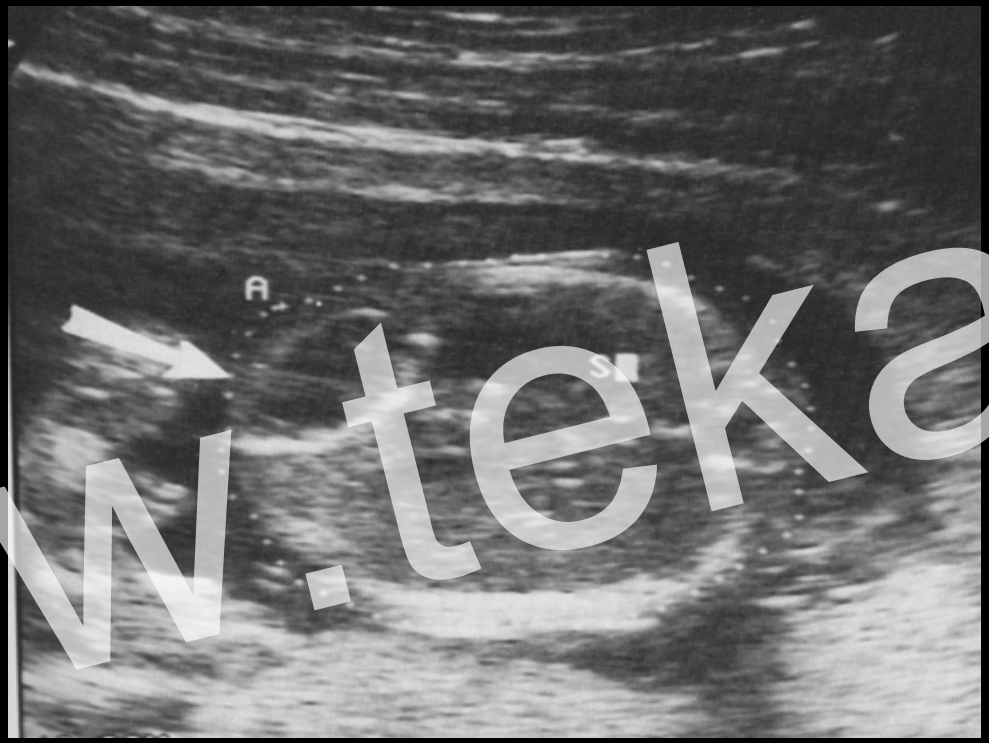

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Omphalocele

Incidence	2.5:10000
Pathogenesis	Failure of bowel to return to abdomen <12 weeks
Associated abnormalities	50-88% CHD (VSD, TOF, PS, DORV) CNS, GI, GU
Chromosomal abnormalities	40-60% (trisomies 18, 13 and 21, turner)
Other	Oligohydramnios/polyhydramnios 30%
Detectable in USS	**Intracorporeal liver** >12 weeks **Extracorporeal liver** <12 weeks **Cord insertion at the apex of the mass!**
Differential Diagnosis	Gastroschisis, limb-body wall complex, amniotic band syndrome

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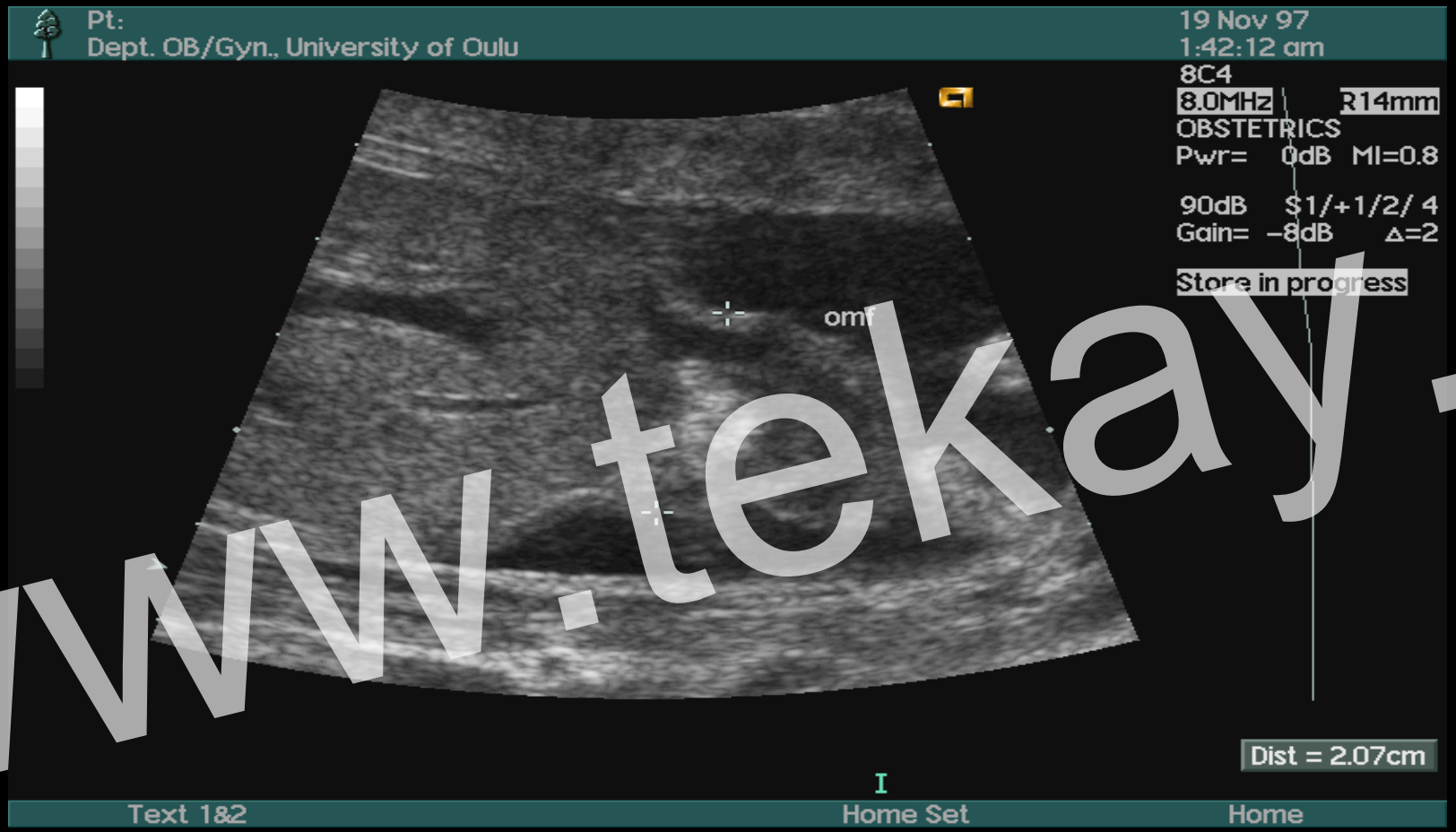
Pt:
Dept. OB/Gyn., University of Oulu
19 Nov 97
1:42:12 am
8C4
8.0MHz
R14mm
OBSTETRICS
Pwr= 0dB MI=0.8
90dB S1/+1/2/ 4
Gain= -8dB Δ=2
Store in progress
Dist = 2.07cm
Text 1&2
Home Set
Home

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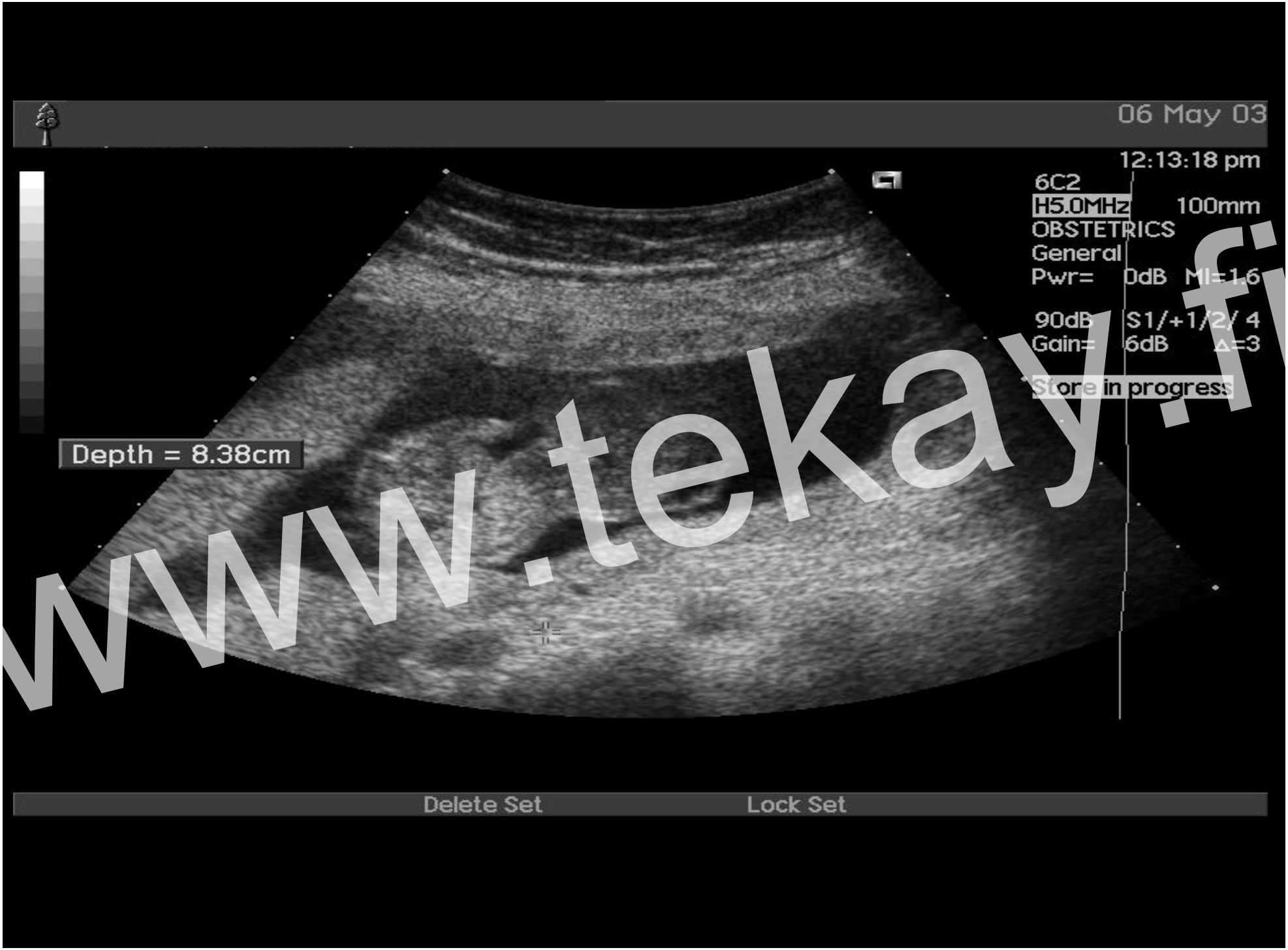
06 May 03
12:13:18 pm
6C2
H5.0MHz
100mm
OBSTETRICS
General
Pwr= 0dB MI=1.6
90dB S1/+1/2/ 4
Gain= 6dB Δ=3
Store in progress
Depth = 8.38cm
Delete Set
Lock Set
www.tekay.fi

Gastroschisis

Incidence	2.5:10000
Pathogenesis	Vascular insult (persistence or premature atrophy of the right umbilical vein at 6-7 weeks)
Associated abnormalities	7-30% (anencephaly, clefts, ASD, ectopia cordis, diaphragmatic hernia)
Chromosomal abnormalities	-
Other	Hypopersitalsis and ischemic atresia of bowel, edema, dilation and bowel perforation, IUGR!
Detectable in USS	**Bowel loops in amniotic cavity** **(later: dilation, thickening and intraluminal meconium)**
Differential Diagnosis	Omphalocele

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-8-D/OB MI 1.2 OYS
=23w0d 10.1cm / 1.7 / 11Hz TIs 0.2 21.03.2012 12:52:50
Routine
Har-mid
Pwr 100
Gn 13
C7 / M7
P3 / E2
SRI II 3
23cm/s
-23cm/s
Pwr 100
Gn -4.8
Frq low
Qual norm
WMF low2
PRF 1.8kHz
MARIA SUSANNA 14.09 RAB4-8-D/OB MI 1.2 OYS
A=26w5d 10.1cm / 1.4 / 25Hz TIs 0.1 16.04.2012 13:02:41
SEPIA23
Har-high
Pwr 100
Gn 4
C6 / M7
P2 / E2
SRI II 3
1 D 1.19cm
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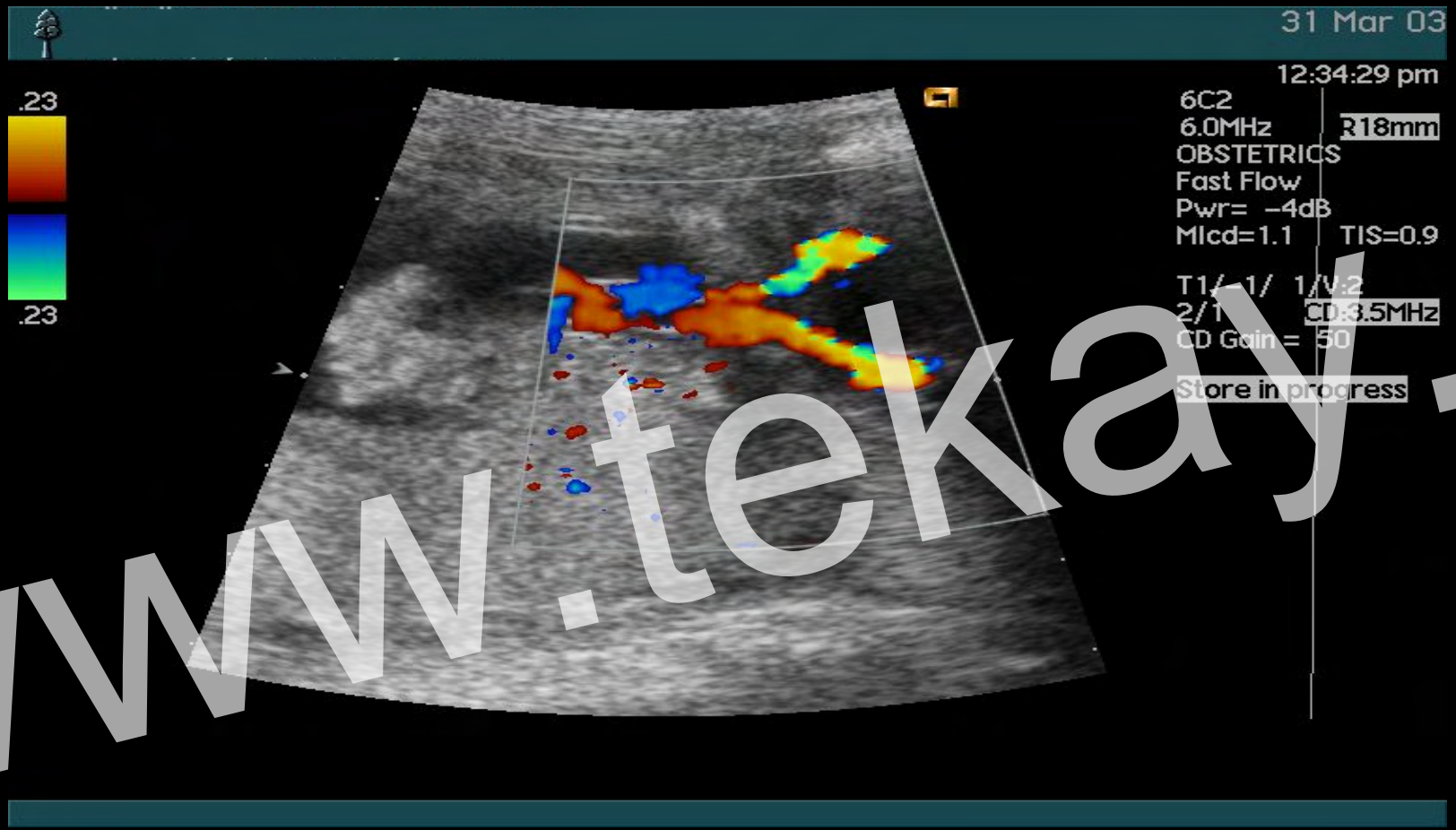
31 Mar 03
12:34:29 pm
.23
.23
6C2
6.0MHz
R18mm
OBSTETRICS
Fast Flow
Pwr= -4dB
MIcd=1.1
TIS=0.9
T1/ 1/ 1/V:2
2/1
CD:3.5MHz
CD Gain = 50
Store in progress

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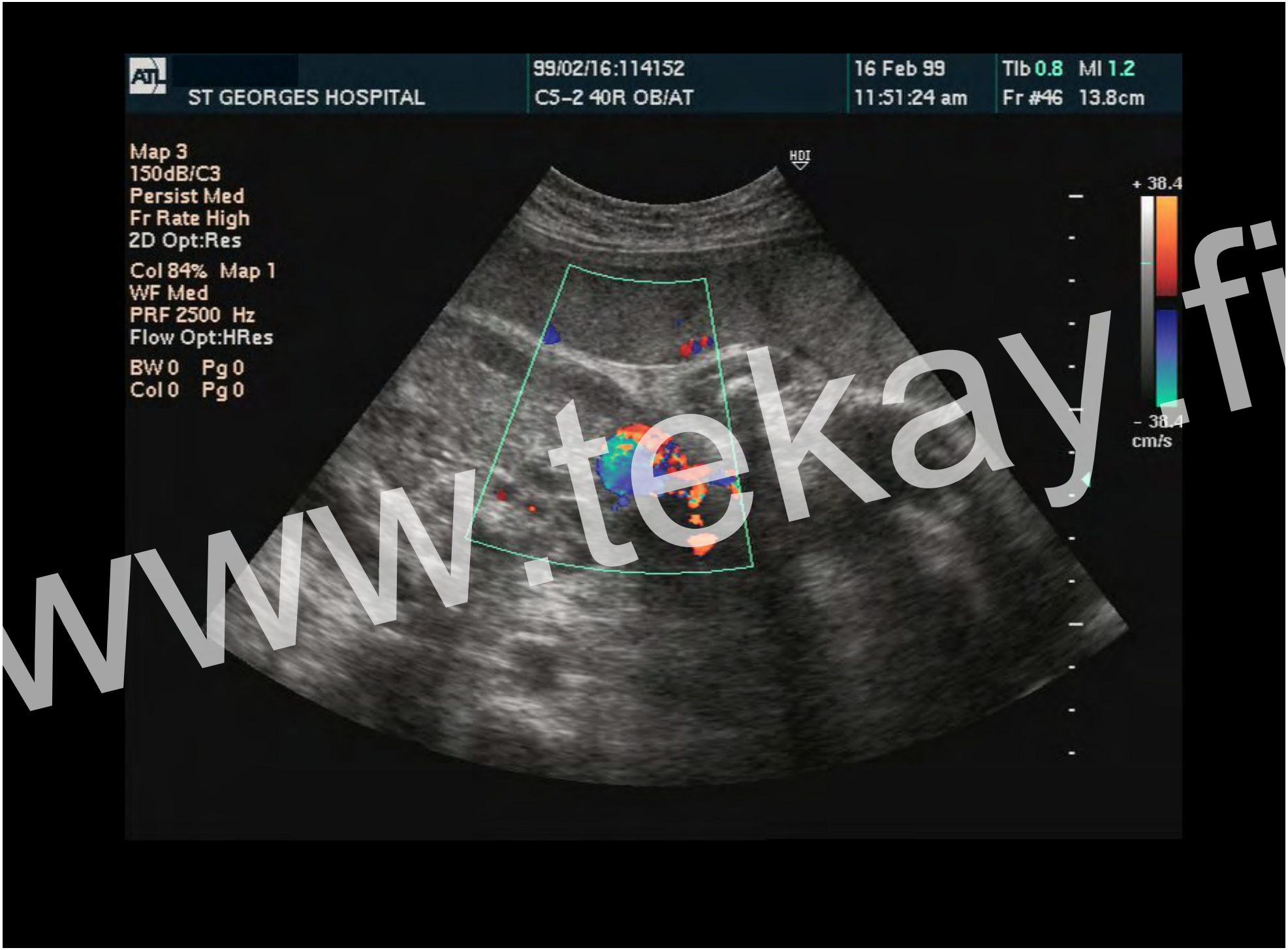
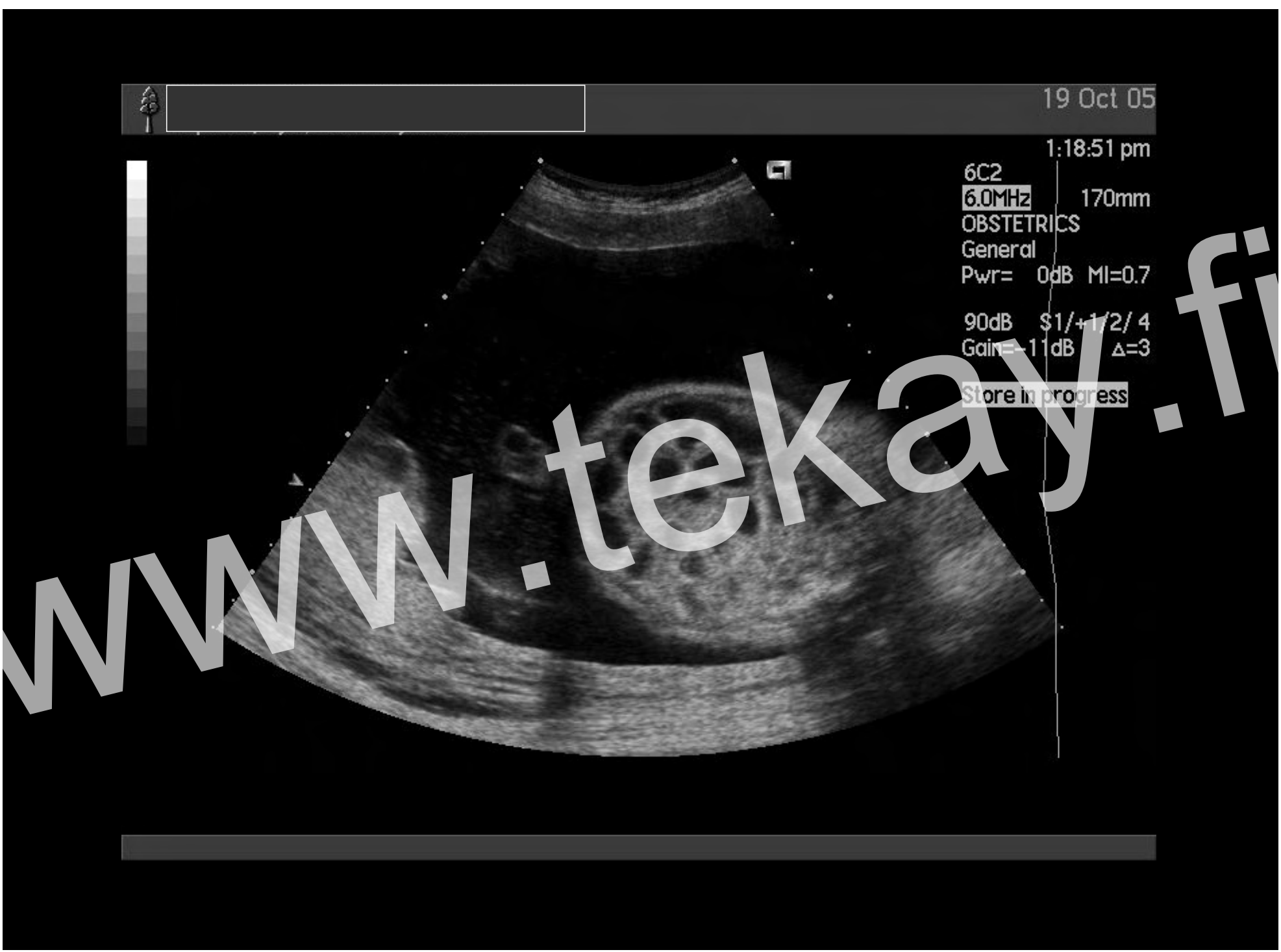
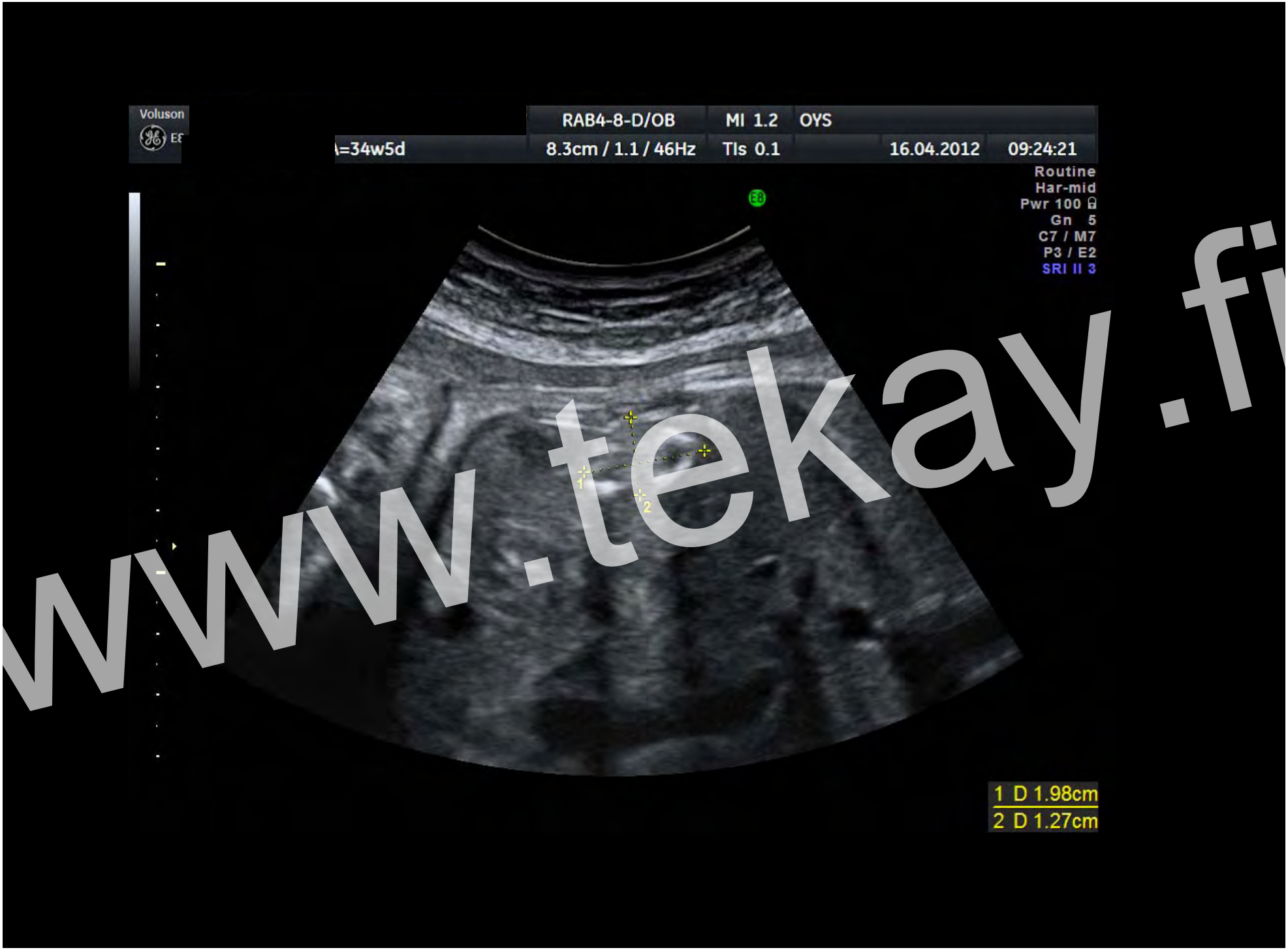
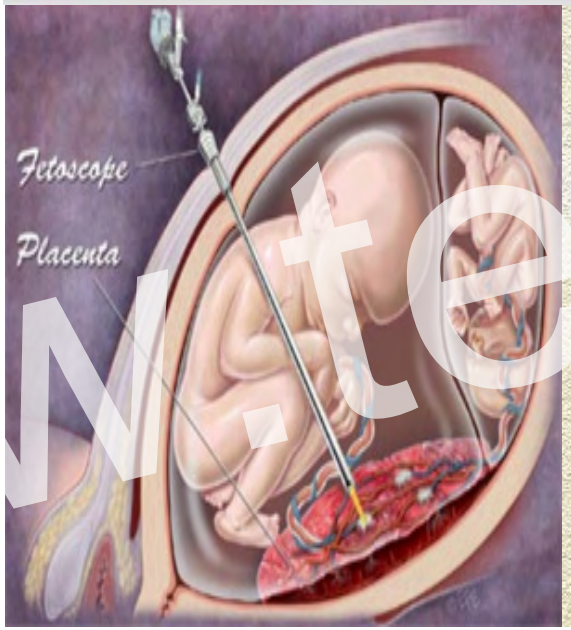

ST GEORGES HOSPITAL
99/02/16:114152
C5-2 40R OB/AT
16 Feb 99
11:51:24 am
TIb 0.8 MI 1.2
Fr #46 13.8cm
Map 3
150dB/C3
Persist Med
Fr Rate High
2D Opt:Res
Col 84% Map 1
WF Med
PRF 2500 Hz
Flow Opt:HRes
BW 0 Pg 0
Col 0 Pg 0
HDI
+ 38.4
- 38.4
cm/s
www.tekay.fi

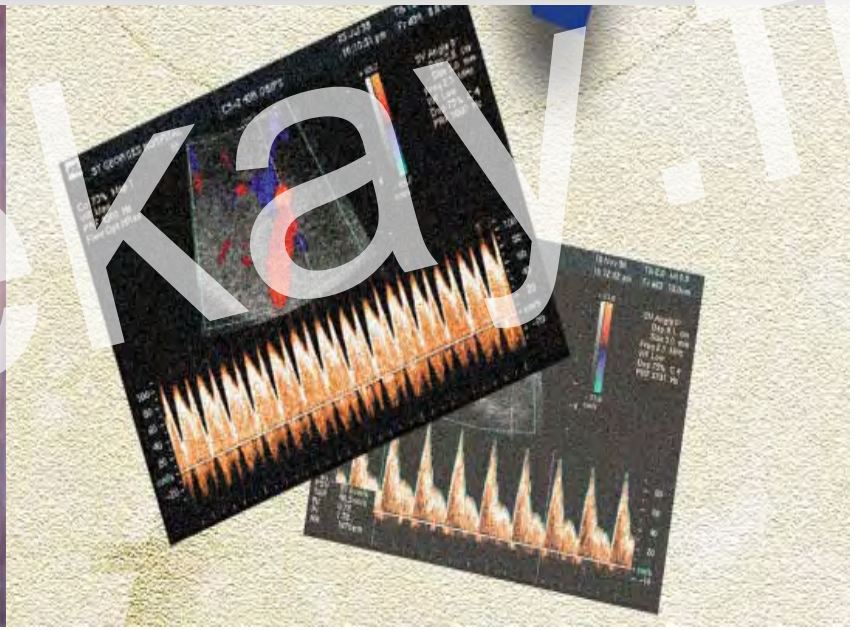

19 Oct 05
1:18:51 pm
6C2
6.0MHz
170mm
OBSTETRICS
General
Pwr= 0dB MI=0.7
90dB S1/+1/2/ 4
Gain=-11dB Δ=3
Store in progress
www.tekay.fi


Voluson
RAB4-8-D/OB
MI 1.2
OYS
=34w5d
8.3cm / 1.1 / 46Hz
TIs 0.1
16.04.2012
09:24:21
Routine
Har-mid
Pwr 100
Gn 5
C7 / M7
P3 / E2
SRI II 3
1 D 1.98cm
2 D 1.27cm
www.tekay.fi

SITU

Synnytysten ja naistentautien klinikka
OYS





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Virtsatie-elimet

Aydin Tekay

25.5.2012 – EGO - OULU

Hydronephrotic
-Mild pyelectasis & hydronephrosis
-UPJ obstruction
-UV obstruction
-Bladder outlet
-VU reflux

-ectopic ureterocele
-UVJ stenosis
-megaureter

Nonhydronephrotic
-Renal agenesis
-Renal ectopy
-Renal cystic disease

-multicystic dysplastic kidney
-polycystic kidney disease
ARPKD, ADPKD
-other

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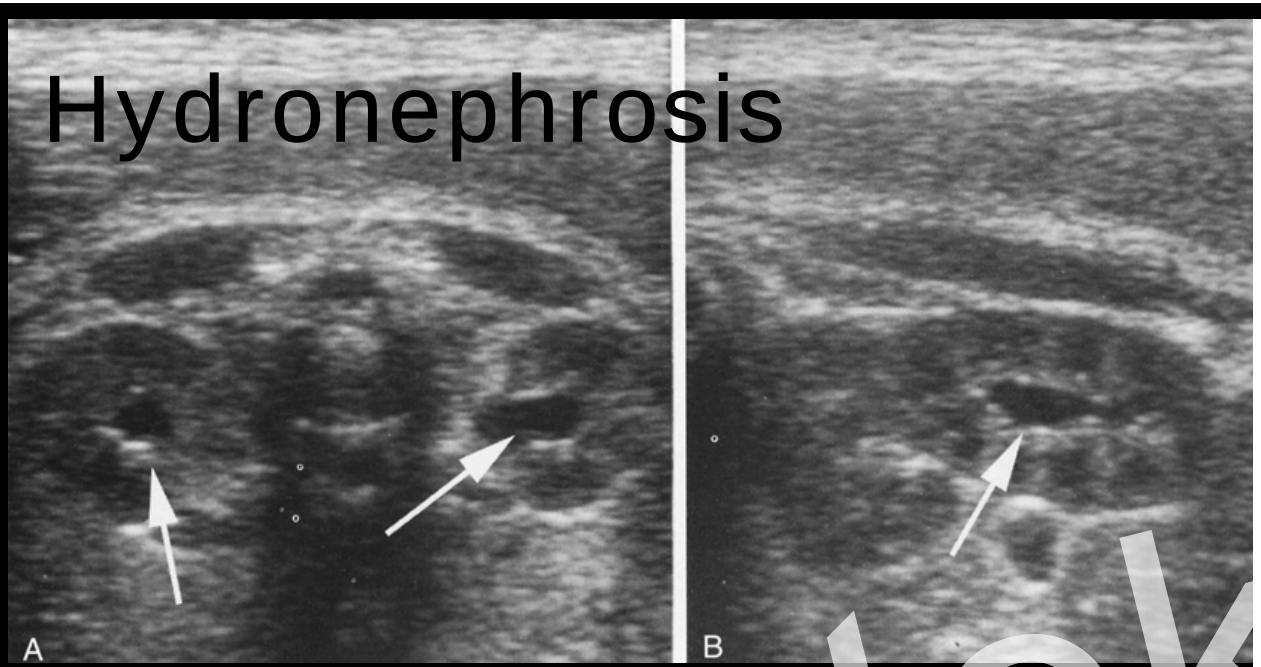
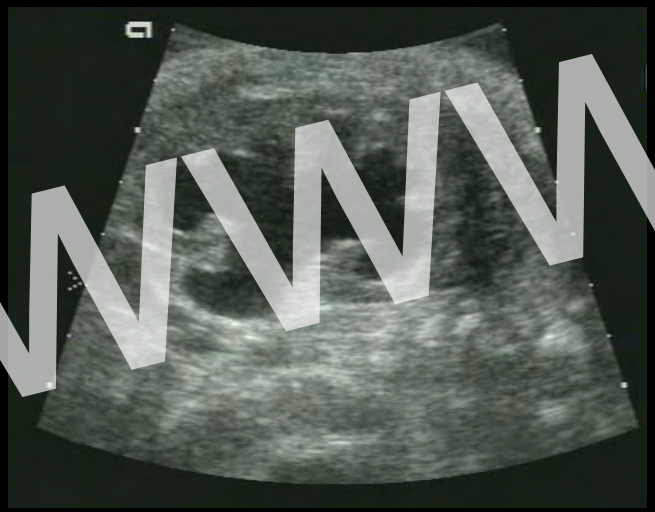
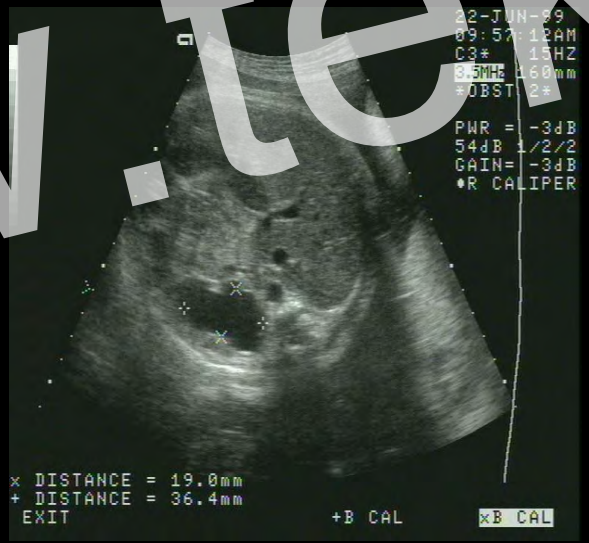
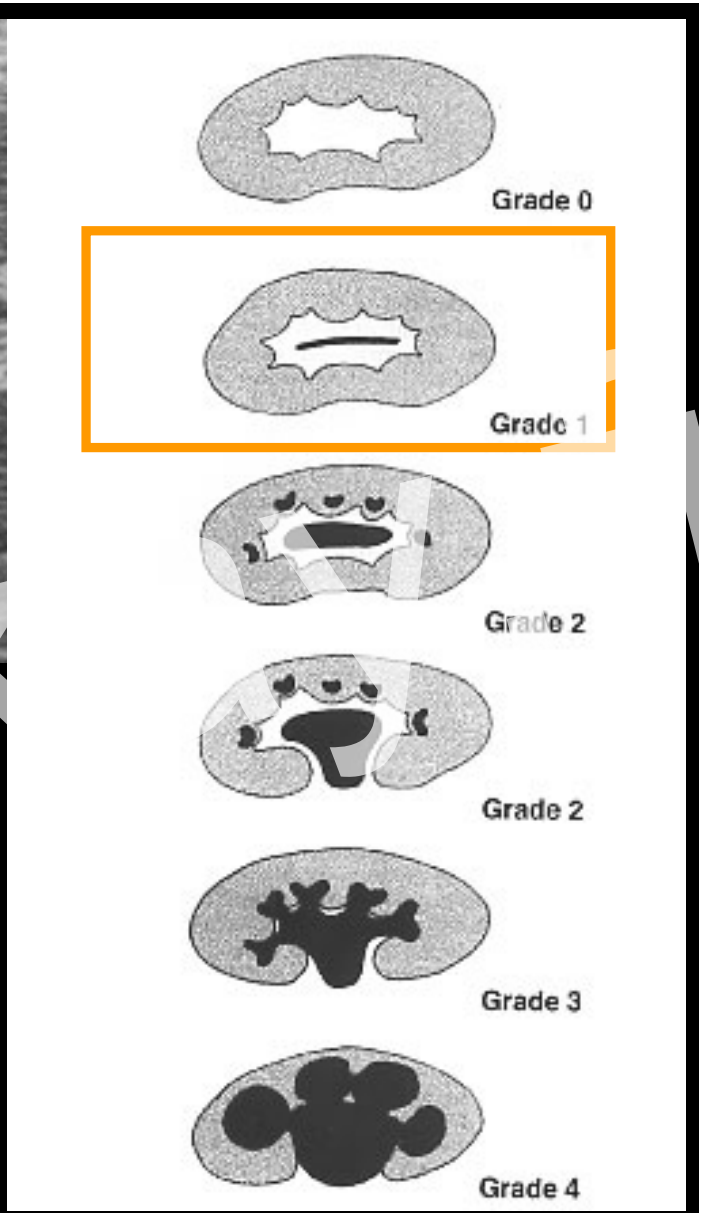
Hydronephrosis









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Grade 0: No dilation
Grade I: Pelvic dilation +/- infundibula visible – mild fetal pyelectasis (MFP)
Grade II: Pelvic dilation + calices visible
Grade III: Renal pelvis & calices dilated
Grade IV: Features of III + thin parenchyme

UPJ obstruction

- ***U**retero **P**elvic **J**unction*

- Most common cause of neonatal hydronephrosis

  1. significant pelvicaliectasis (distal end blunted)

  2. no ureterectasis, ectopic ureterocele, bladder or posterior urethral dilation

  (amniotic fluid normal or *polyhydramniotic*)

- Progression in <50% - no need for preterm delivery!

- About 50% require surgical correction

- Often postnatal pelvic dilation less prominent (uterine environment)

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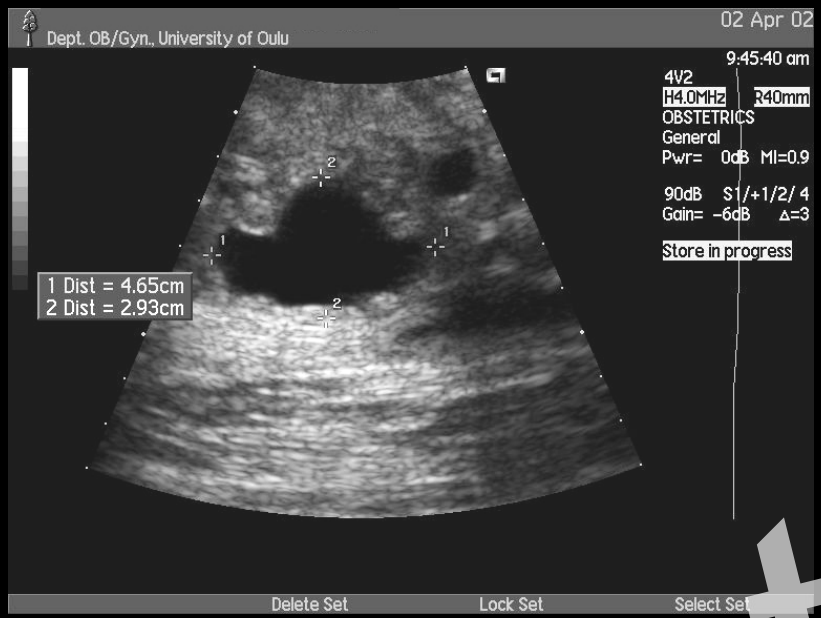
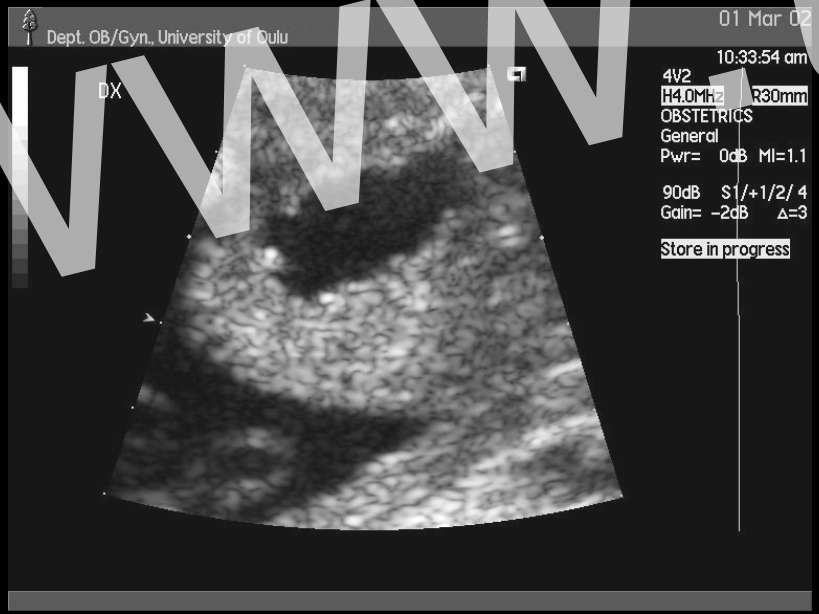
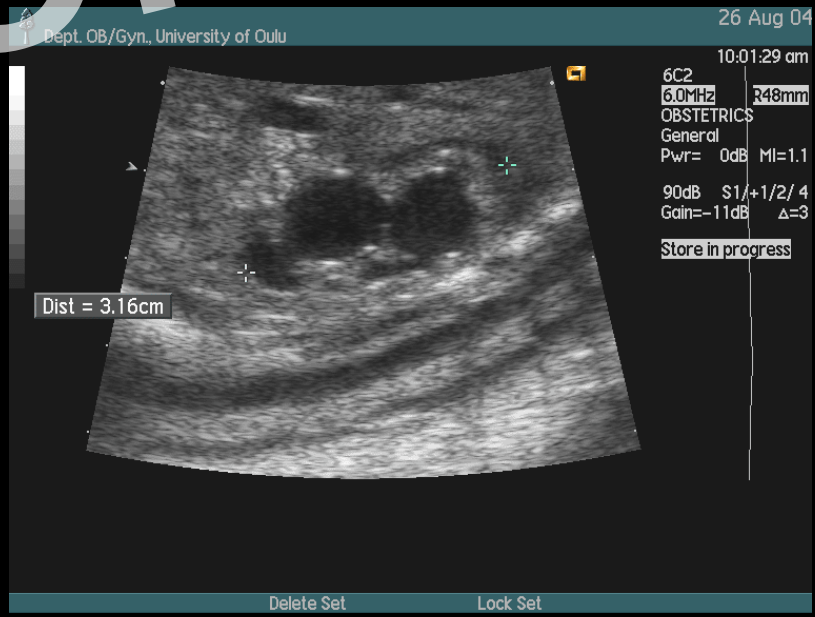

Dept. OB/Gyn., University of Oulu
02 Apr 02
9:45:40 am
4V2
H4.0MHz R40mm
OBSTETRICS
General
Pwr= 0dB MI=0.9
90dB S1/+1/2/ 4
Gain= -6dB Δ=3
Store in progress
1 Dist = 4.65cm
2 Dist = 2.93cm
Delete Set
Lock Set
Select Set


Dept. OB/Gyn., University of Oulu
01 Mar 02
10:33:54 am
DX
4V2
H4.0MHz R30mm
OBSTETRICS
General
Pwr= 0dB MI=1.1
90dB S1/+1/2/ 4
Gain= -2dB Δ=3
Store in progress


Dept. OB/Gyn., University of Oulu
26 Aug 04
10:01:29 am
6C2
6.0MHz R48mm
OBSTETRICS
General
Pwr= 0dB MI=1.1
90dB S1/+1/2/ 4
Gain=-11dB Δ=3
Store in progress
Dist = 3.16cm
Delete Set
Lock Set

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UVJ pathology

- ***U**retero**V**esical Pathology*

  1. Complete duplication with ectopic ureter

  2. Congenital megaloureter

  3. UVJ stenosis

  Vesicoureteral reflux difficult to diff. from #2 and #3!

- ectopic ureterocele (look in the **bladder**!), occasionally dysplastic changes in upper moiety

- megaloureter mild – severe + normal bladder

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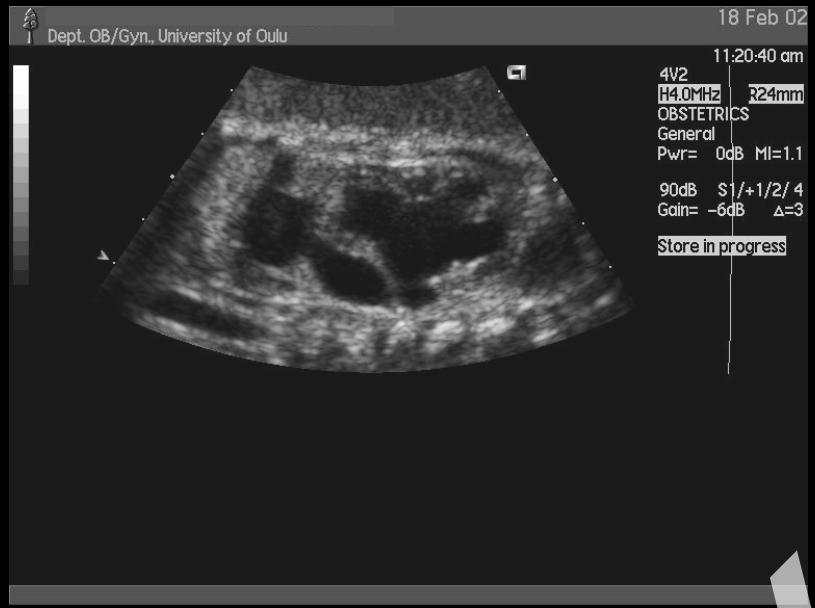
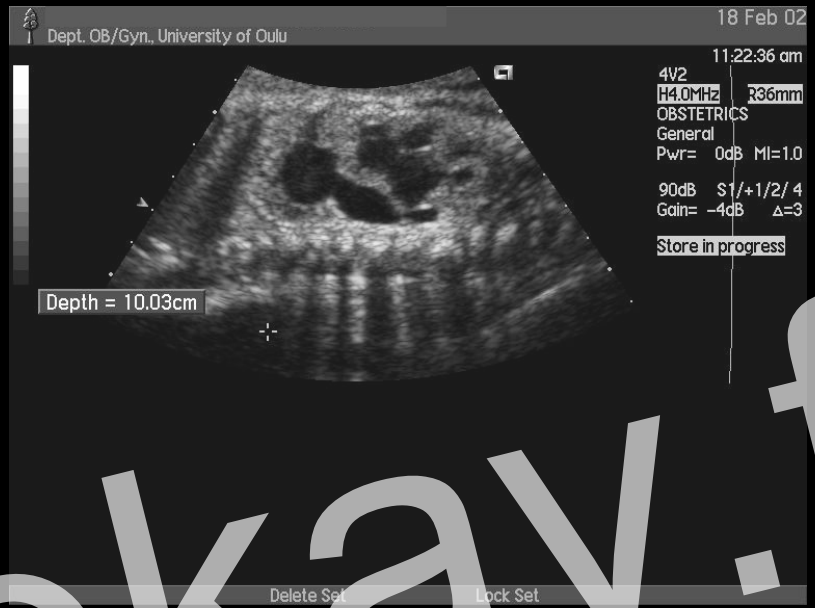
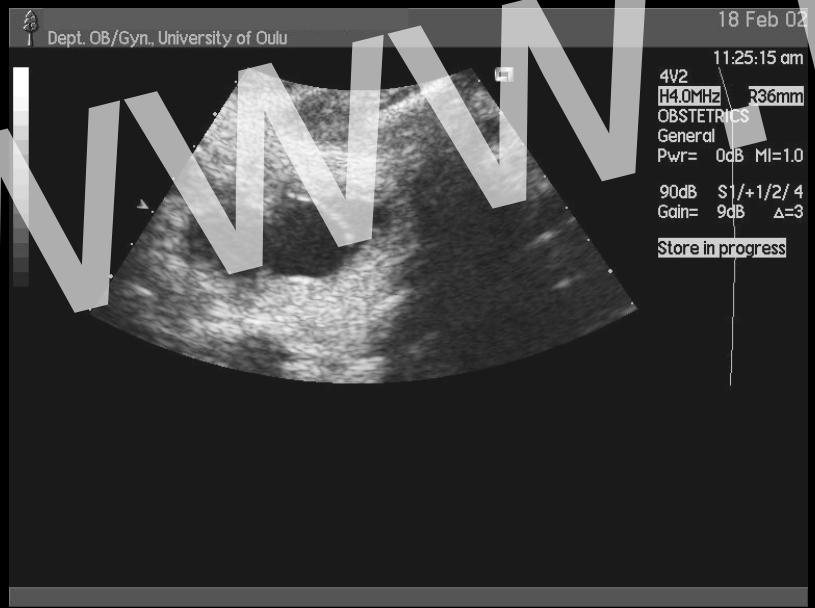
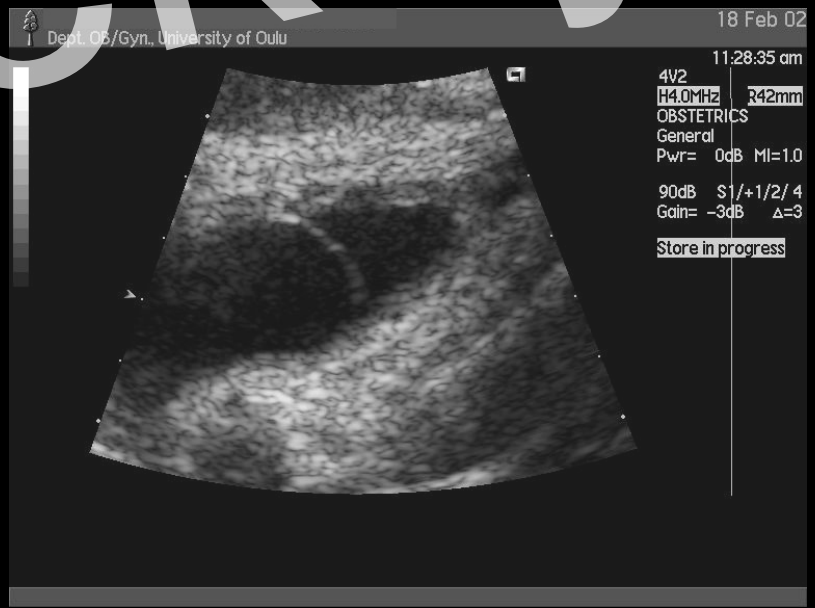

Dept. OB/Gyn., University of Oulu
18 Feb 02
11:20:40 am
4V2
H4.0MHz R24mm
OBSTETRICS
General
Pwr= 0dB MI=1.1
90dB S1/+1/2/4
Gain= -6dB Δ=3
Store in progress

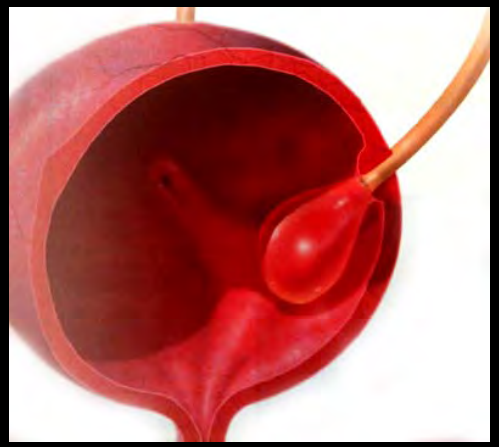

Dept. OB/Gyn., University of Oulu
18 Feb 02
11:22:36 am
4V2
H4.0MHz R36mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB S1/+1/2/4
Gain= -4dB Δ=3
Store in progress
Depth = 10.03cm
Delete Set
Lock Set

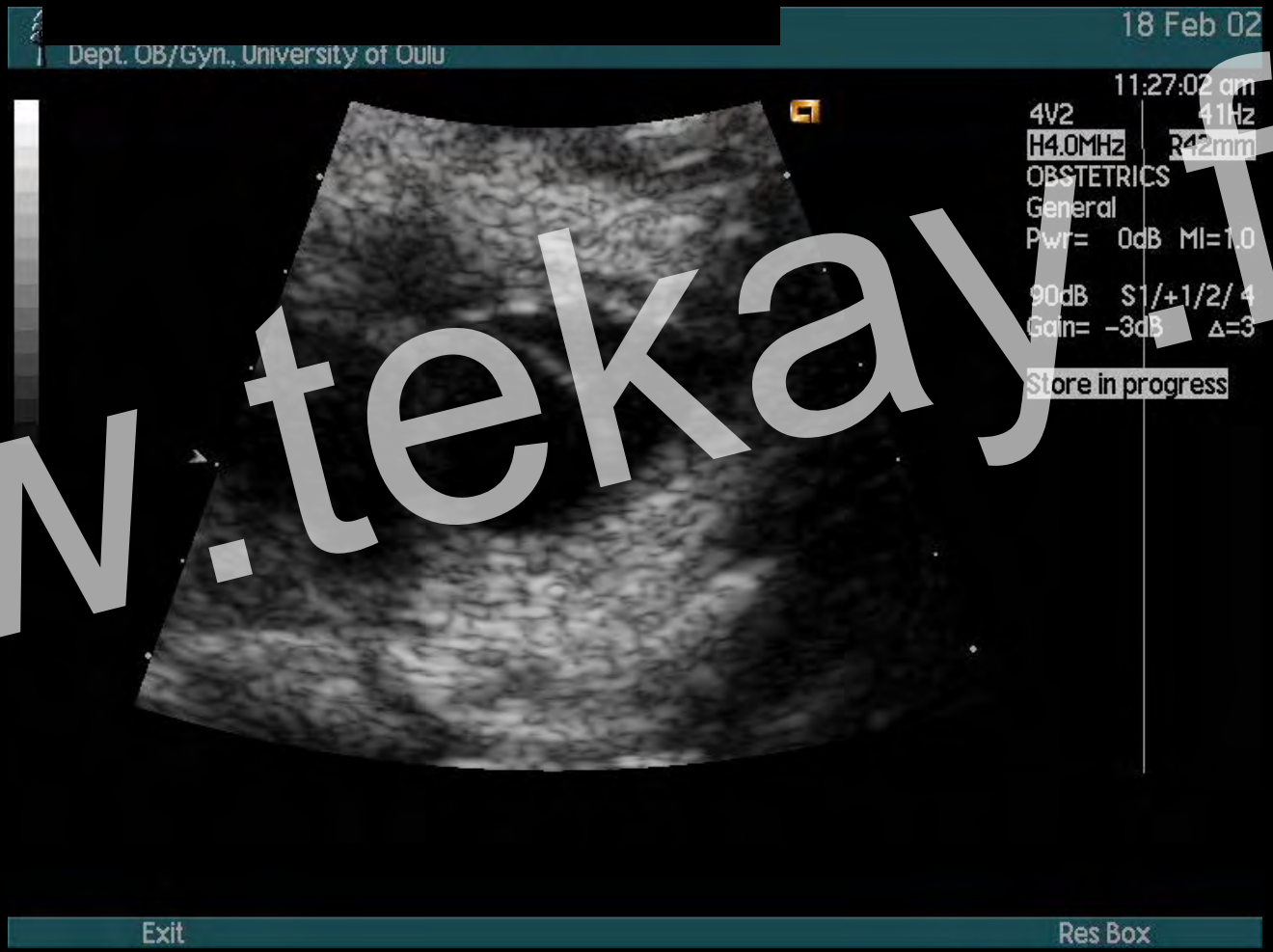

Dept. OB/Gyn., University of Oulu
18 Feb 02
11:25:15 am
4V2
H4.0MHz R36mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB S1/+1/2/4
Gain= 9dB Δ=3
Store in progress


Dept. OB/Gyn., University of Oulu
18 Feb 02
11:28:35 am
4V2
H4.0MHz R42mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB S1/+1/2/4
Gain= -3dB Δ=3
Store in progress

www.tekay.fi

Ureterocele





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Dept. OB/Gyn., University of Oulu
11 Mar 02
10:09:45 am
4V2
3.5MHz
R28mm
OBSTETRICS
General
Pwr= 0dB MI=1.3
90dB S1/+1/2/ 4
Gain= -8dB Δ=3
Store in progress
Dist = 1.39cm
Dept. OB/Gyn., University of Oulu
02 Apr 02
9:45:40 am
4V2
H4.0MHz
R40mm
OBSTETRICS
General
Pwr= 0dB MI=0.9
90dB S1/+1/2/ 4
Gain= -6dB Δ=3
Store in progress
1 Dist = 4.65cm
2 Dist = 2.93cm
Delete Set
Delete Set
Lock Set
Select Set
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Bladder outlet obstruction

Females: Urethral atresia, cloacal malformation

Males: **Posterior urethral valve (PUV)**

1. Huge bladder, thick wall, trabeculation
2. Keyhole sign
3. Ureters dilated (reflux) – not always!
4. Hydronephrosis mild – moderate
5. Occasionally paranephric urinoma, urine ascites
6. Moderate to profound oligohydramnios

- 80% of the fetuses with oligo die. Caliectasis (better prognosis).
  Renal dysplasia – cortical cysts and echogenicity!

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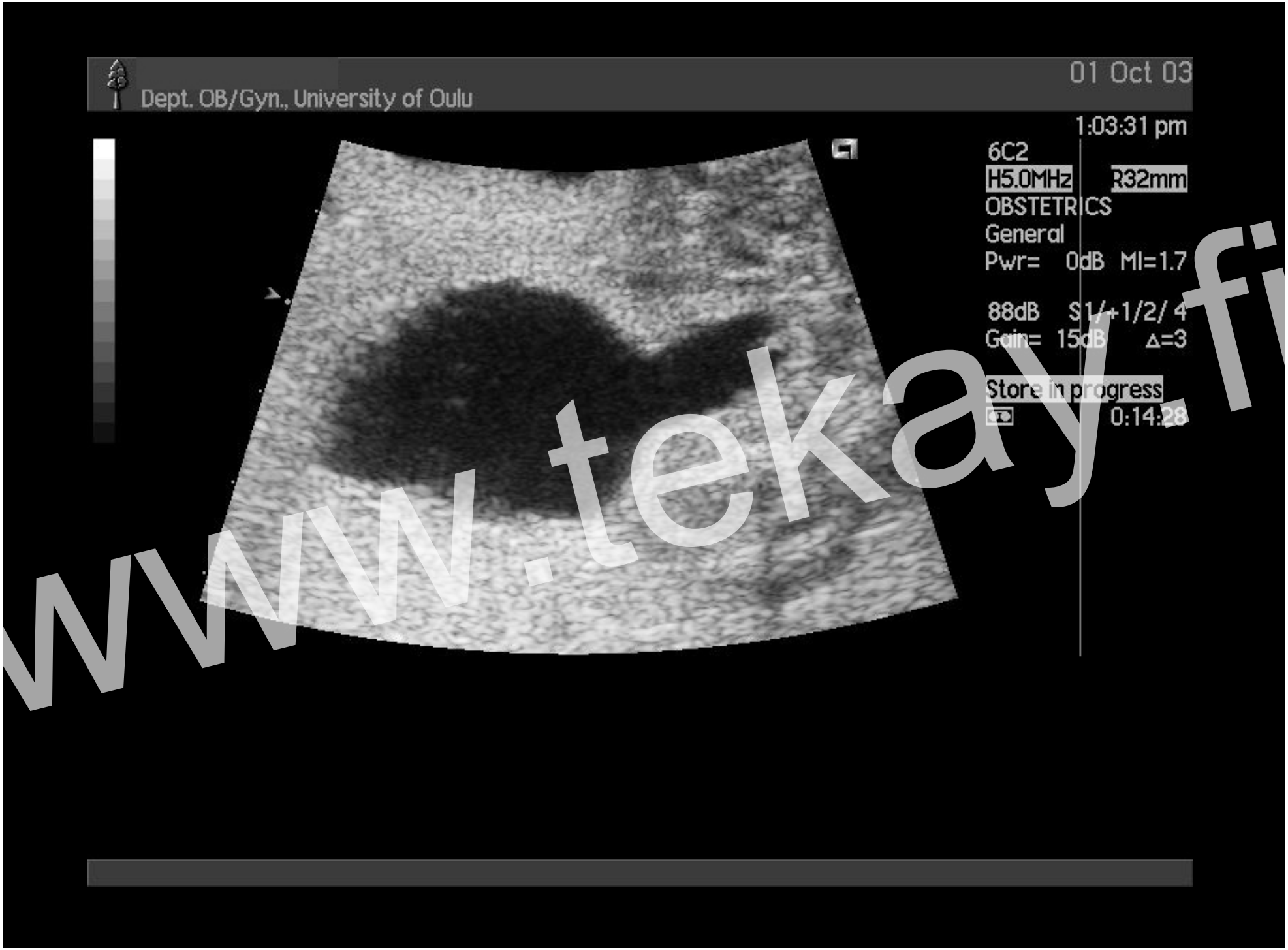
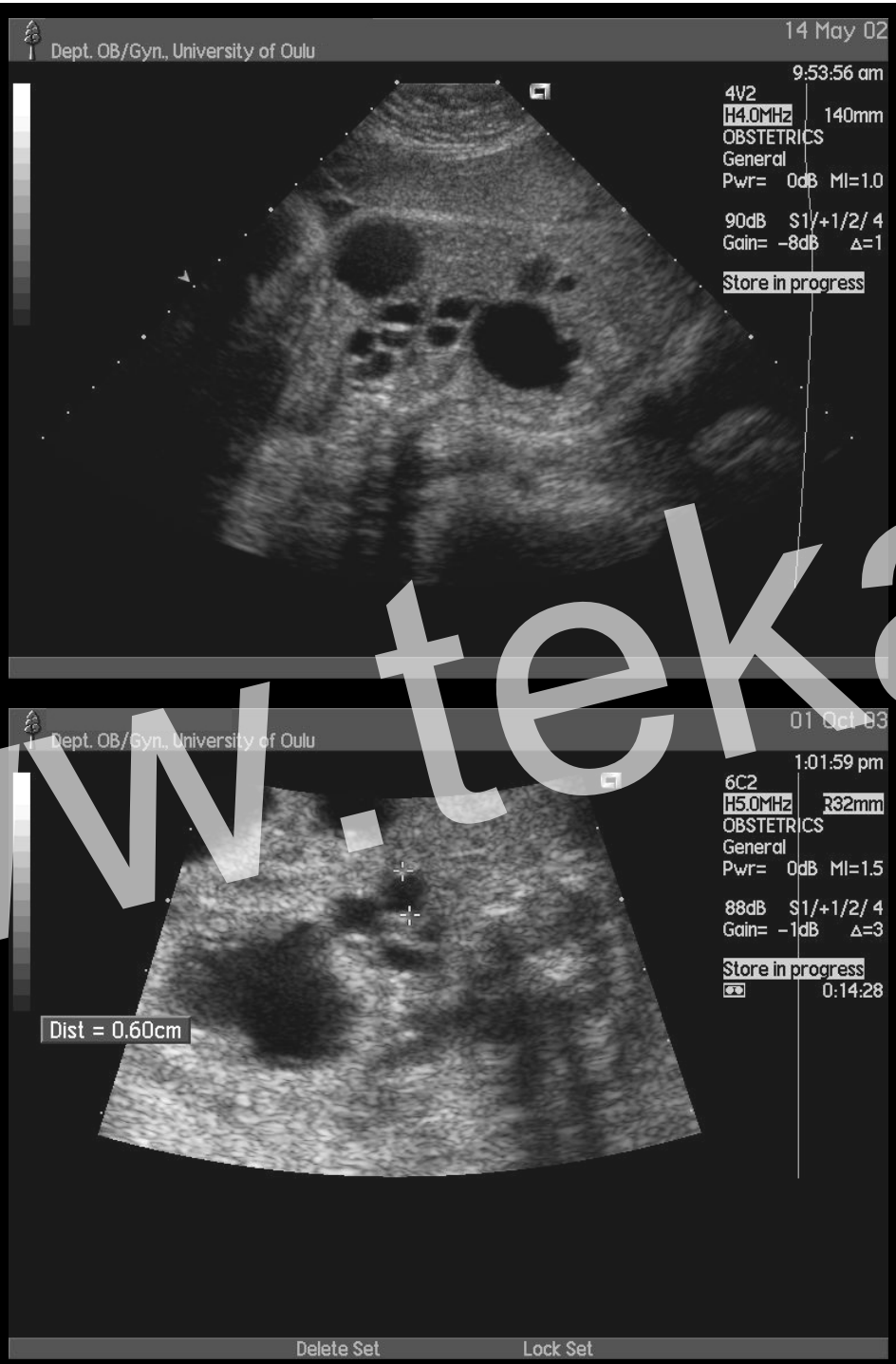

Dept. OB/Gyn., University of Oulu
01 Oct 03
1:03:31 pm
6C2
H5.0MHz
R32mm
OBSTETRICS
General
Pwr= 0dB MI=1.7
88dB S1/+1/2/ 4
Gain= 15dB Δ=3
Store in progress
0:14:28
www.tekay.fi


Dept. OB/Gyn., University of Oulu
14 May 02
9:53:56 am
4V2
H4.0MHz 140mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB S1/+1/2/ 4
Gain= -8dB Δ=1
Store in progress
Dept. OB/Gyn., University of Oulu
01 Oct 03
1:01:59 pm
6C2
H5.0MHz R32mm
OBSTETRICS
General
Pwr= 0dB MI=1.5
88dB S1/+1/2/ 4
Gain= -1dB Δ=3
Store in progress
0:14:28
Dist = 0.60cm
Delete Set
Lock Set

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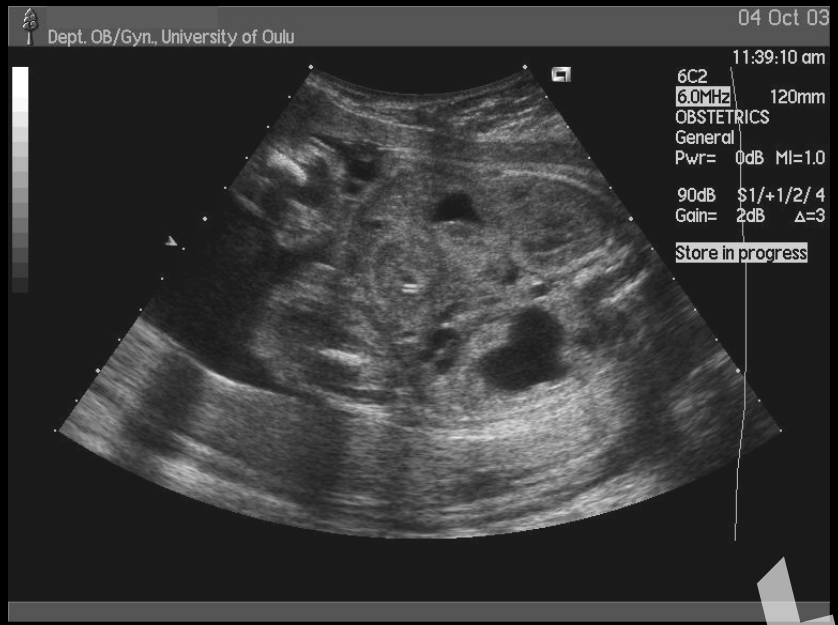
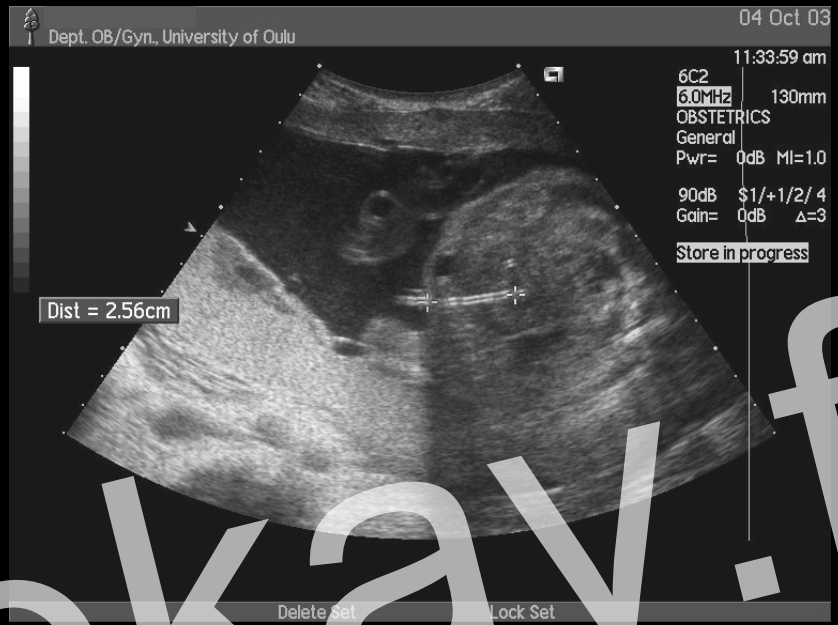
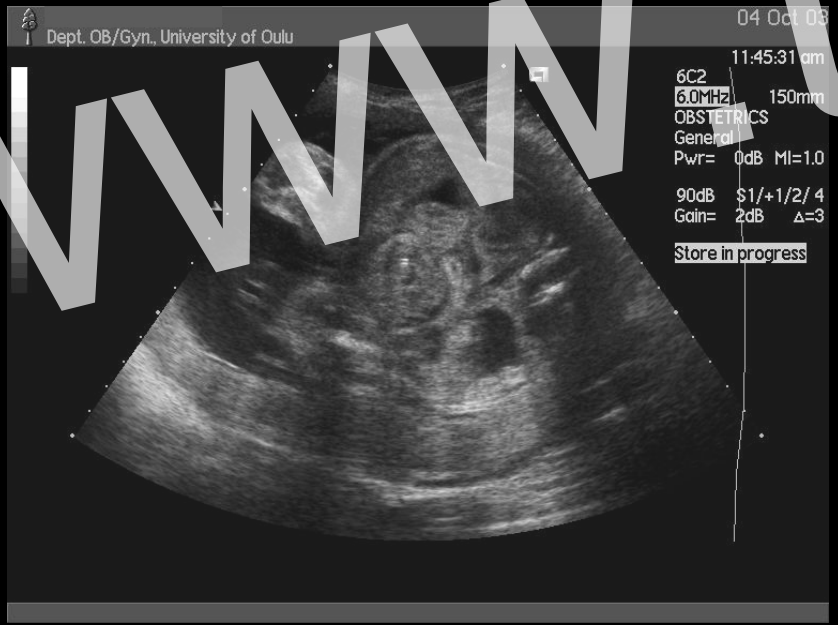
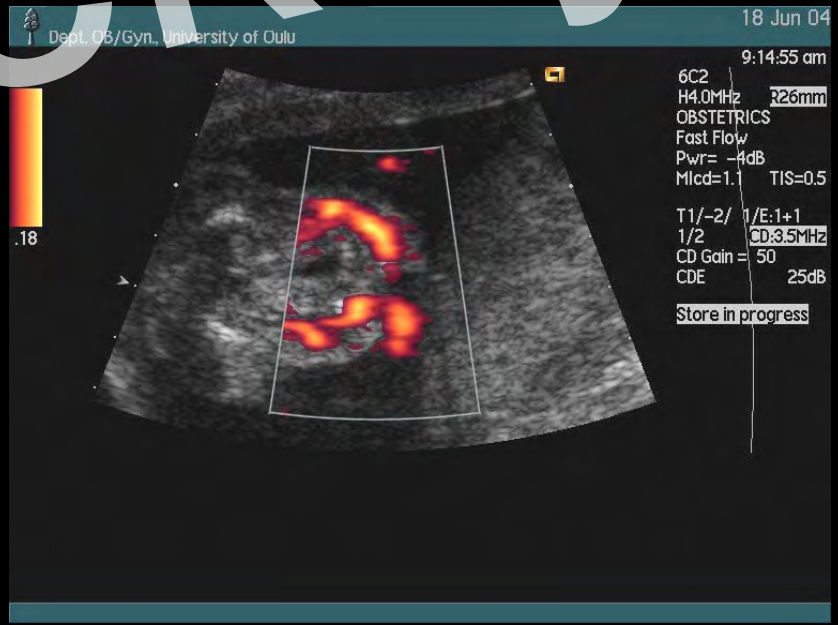

Dept. OB/Gyn., University of Oulu
04 Oct 03
11:39:10 am
6C2
6.0MHz 120mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB $1/+1/2/ 4
Gain= 2dB Δ=3
Store in progress


Dept. OB/Gyn., University of Oulu
04 Oct 03
11:33:59 am
6C2
6.0MHz 130mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB $1/+1/2/ 4
Gain= 0dB Δ=3
Store in progress
Dist = 2.56cm
Delete Set
Lock Set


Dept. OB/Gyn., University of Oulu
04 Oct 03
11:45:31 am
6C2
6.0MHz 150mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB $1/+1/2/ 4
Gain= 2dB Δ=3
Store in progress


Dept. OB/Gyn., University of Oulu
18 Jun 04
9:14:55 am
6C2
H4.0MHz R26mm
OBSTETRICS
Fast Flow
Pwr= -4dB
MIcd=1.1 TIS=0.5
T1/-2/ 1/E:1+1
1/2 CD:3.5MHz
CD Gain = 50
CDE 25dB
Store in progress
.18

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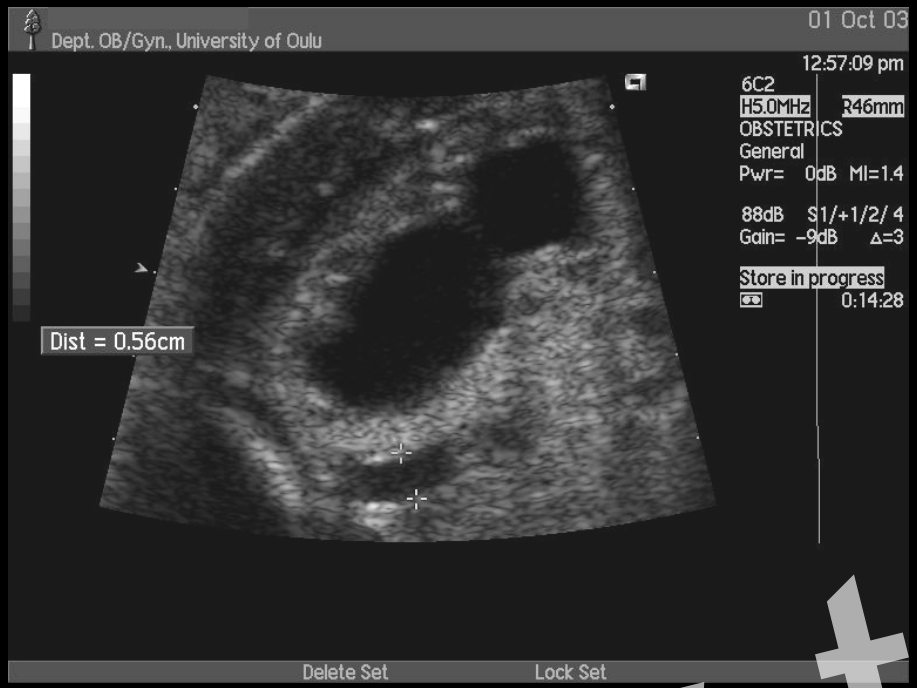
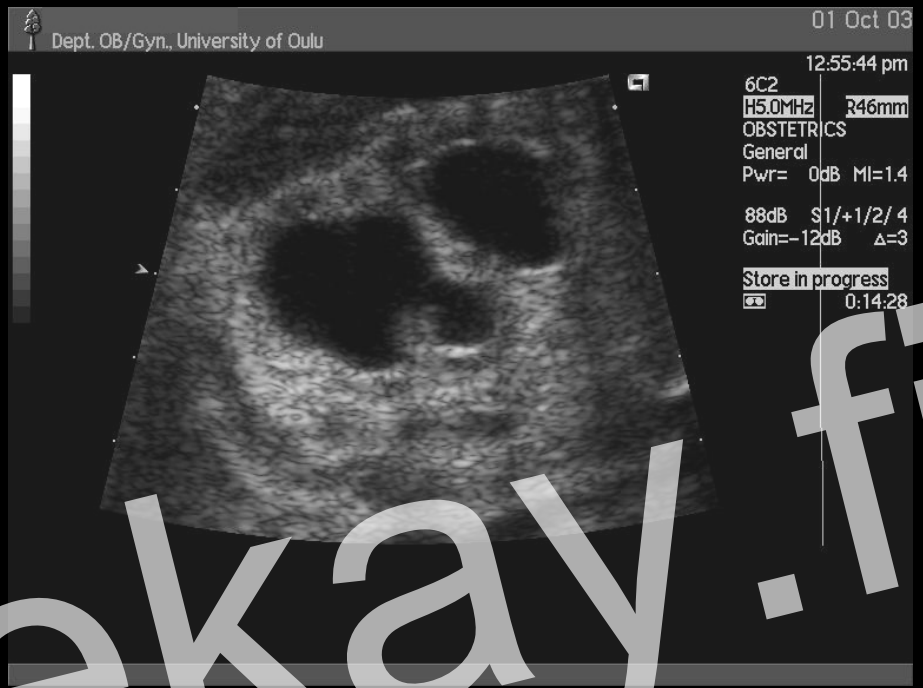
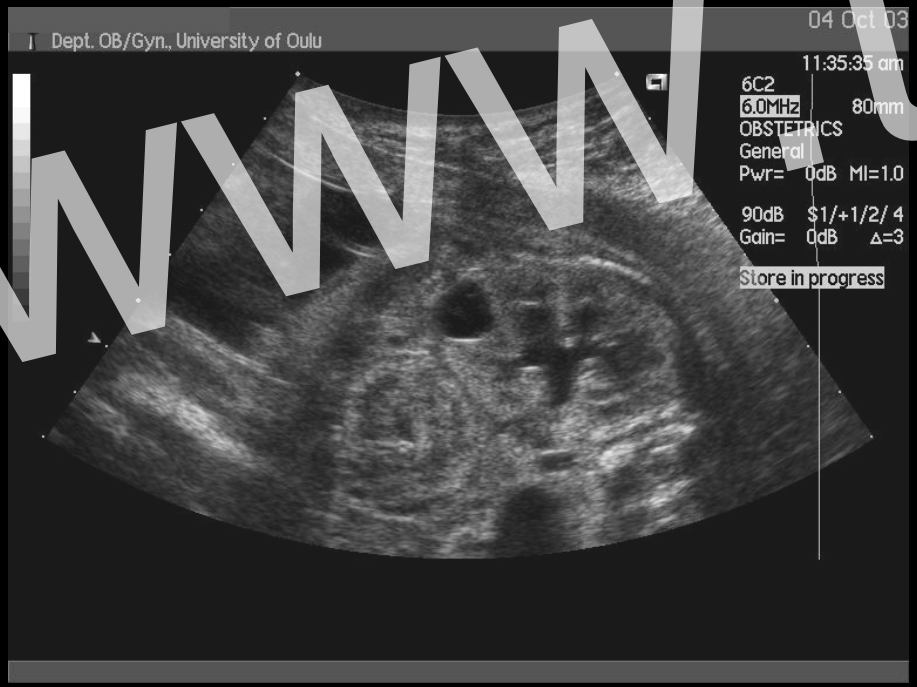
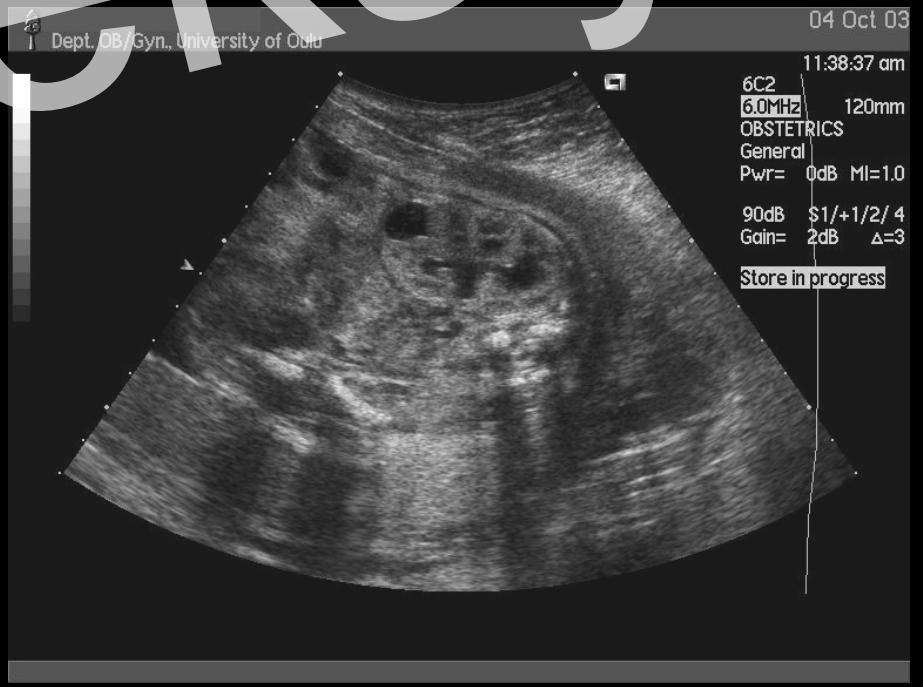

Dept. OB/Gyn., University of Oulu
01 Oct 03
12:57:09 pm
6C2
H5.0MHz R46mm
OBSTETRICS
General
Pwr= 0dB MI=1.4
88dB S1/+1/2/ 4
Gain= -9dB Δ=3
Store in progress
0:14:28
Dist = 0.56cm
Delete Set
Lock Set


Dept. OB/Gyn., University of Oulu
01 Oct 03
12:55:44 pm
6C2
H5.0MHz R46mm
OBSTETRICS
General
Pwr= 0dB MI=1.4
88dB S1/+1/2/ 4
Gain=-12dB Δ=3
Store in progress
0:14:28


Dept. OB/Gyn., University of Oulu
04 Oct 03
11:35:35 am
6C2
6.0MHz 80mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB S1/+1/2/ 4
Gain= 0dB Δ=3
Store in progress


Dept. OB/Gyn., University of Oulu
04 Oct 03
11:38:37 am
6C2
6.0MHz 120mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB S1/+1/2/ 4
Gain= 2dB Δ=3
Store in progress

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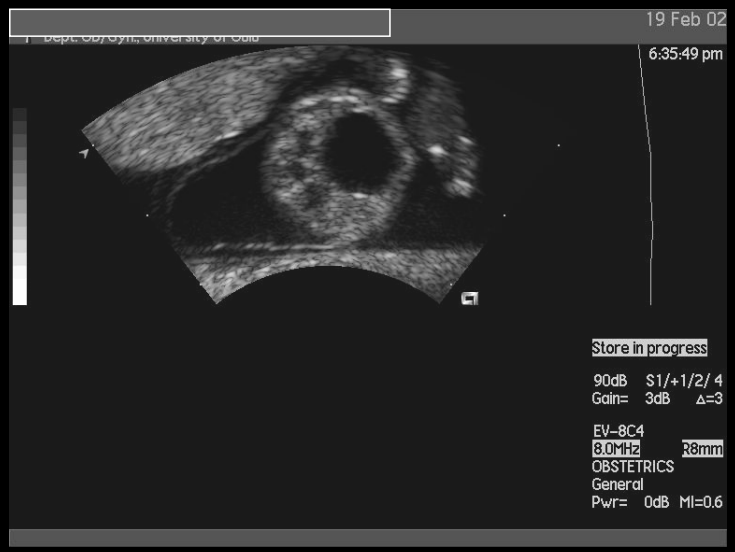
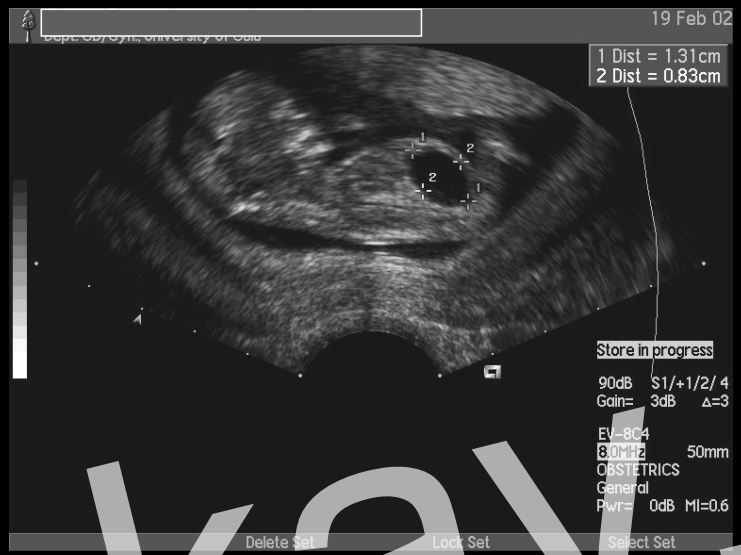
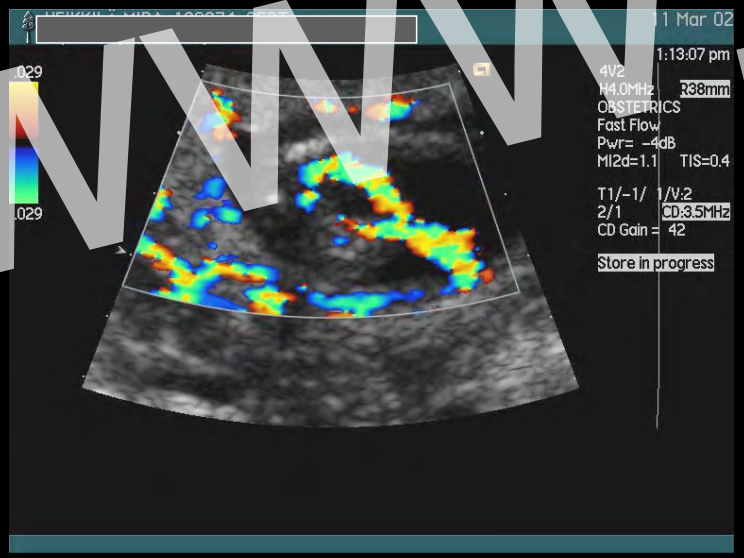
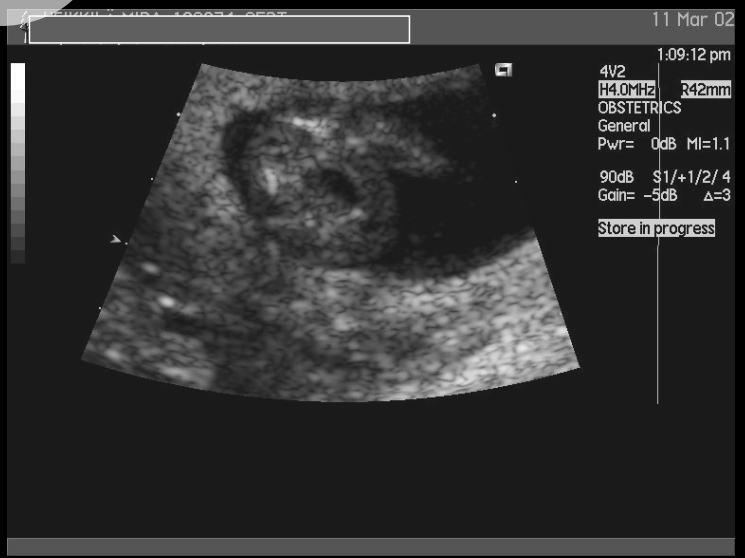

19 Feb 02
6:35:49 pm
Store in progress
90dB S1/+1/2/ 4
Gain= 3dB Δ=3
EV-8C4
8.0MHz R8mm
OBSTETRICS
General
Pwr= 0dB MI=0.6


19 Feb 02
1 Dist = 1.31cm
2 Dist = 0.83cm
Store in progress
90dB S1/+1/2/ 4
Gain= 3dB Δ=3
EV-8C4
8.0MHz 50mm
OBSTETRICS
General
Pwr= 0dB MI=0.6
Delete Set
Lock Set
Select Set


11 Mar 02
1:13:07 pm
.029
.029
4V2
H4.0MHz R38mm
OBSTETRICS
Fast Flow
Pwr= -4dB
MI2d=1.1 TIS=0.4
T1/-1/ 1/V:2
2/1 CD:3.5MHz
CD Gain = 42
Store in progress


11 Mar 02
1:09:12 pm
4V2
H4.0MHz R42mm
OBSTETRICS
General
Pwr= 0dB MI=1.1
90dB S1/+1/2/ 4
Gain= -5dB Δ=3
Store in progress

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Nonhydronephrotic

- RENAL AGENESIS

  Severe oligohydramnios

  Nonvisualised fetal bladder

  Renal nonvisualisation

  Unilateral renal agenesis: excellent prognosis unless in VACTERL complex!

- RENAL ECTOPIA Pelvic, horseshoe

  Renal nonvisualisation

  Lying down adrenal

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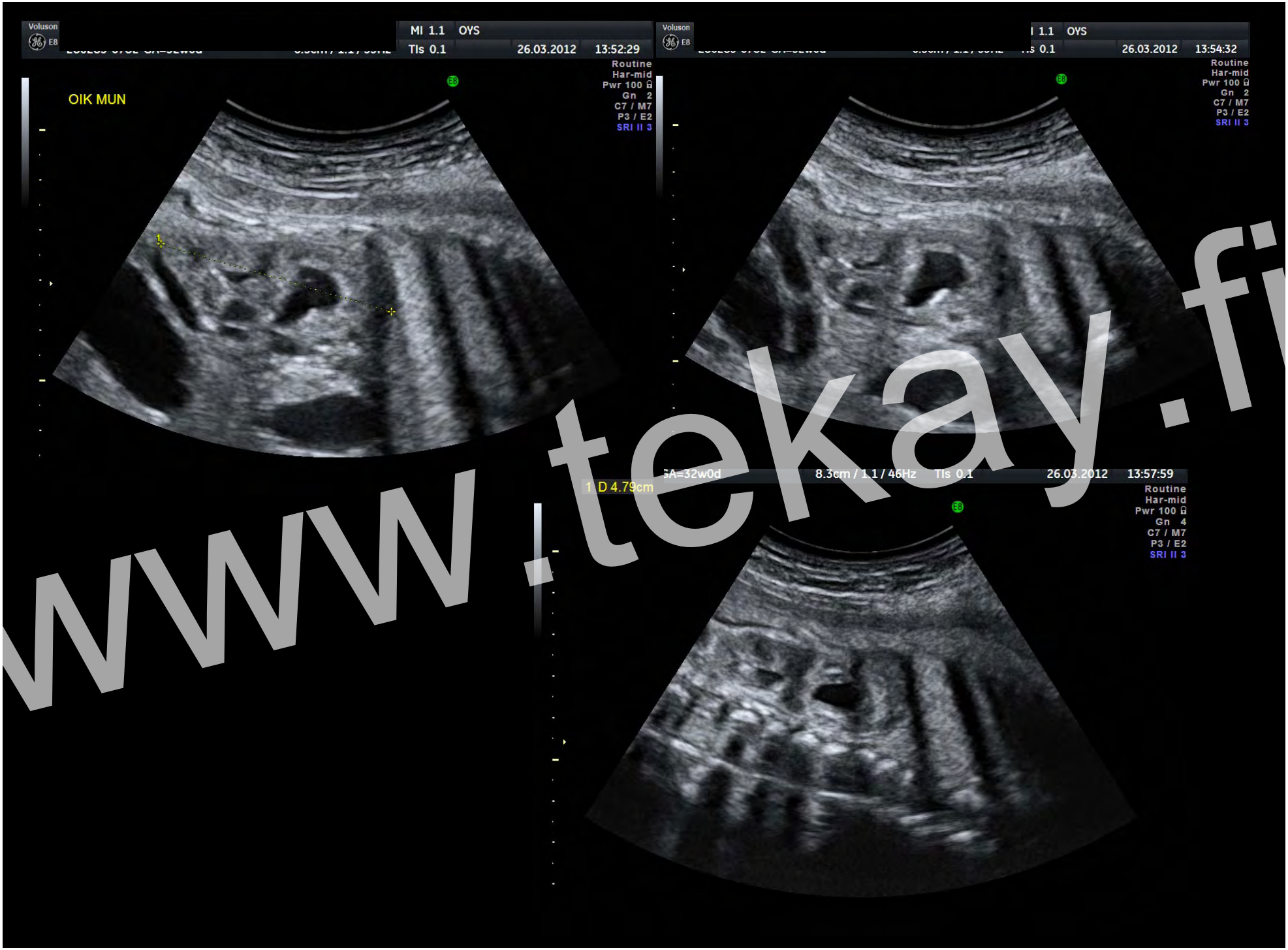
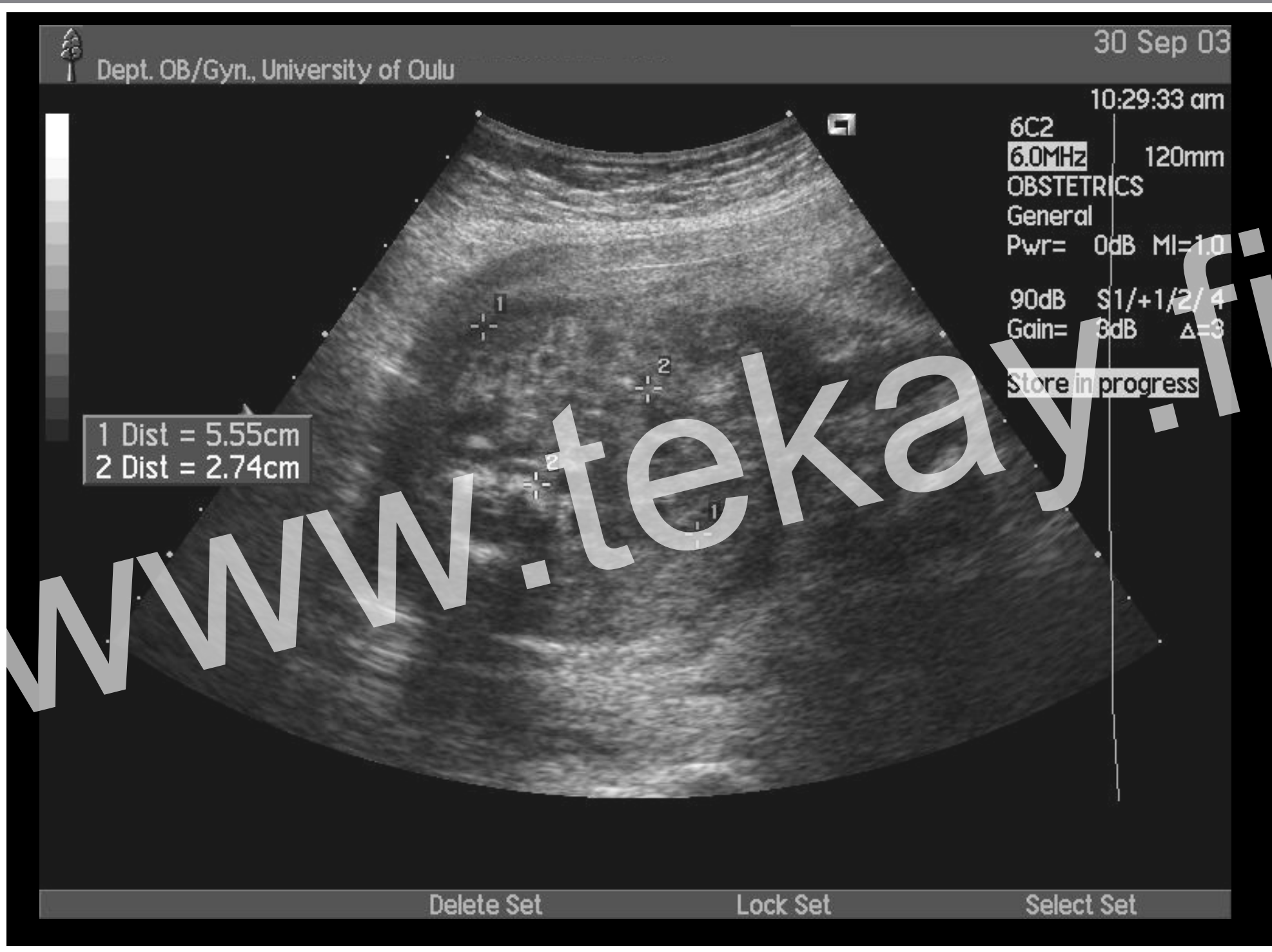
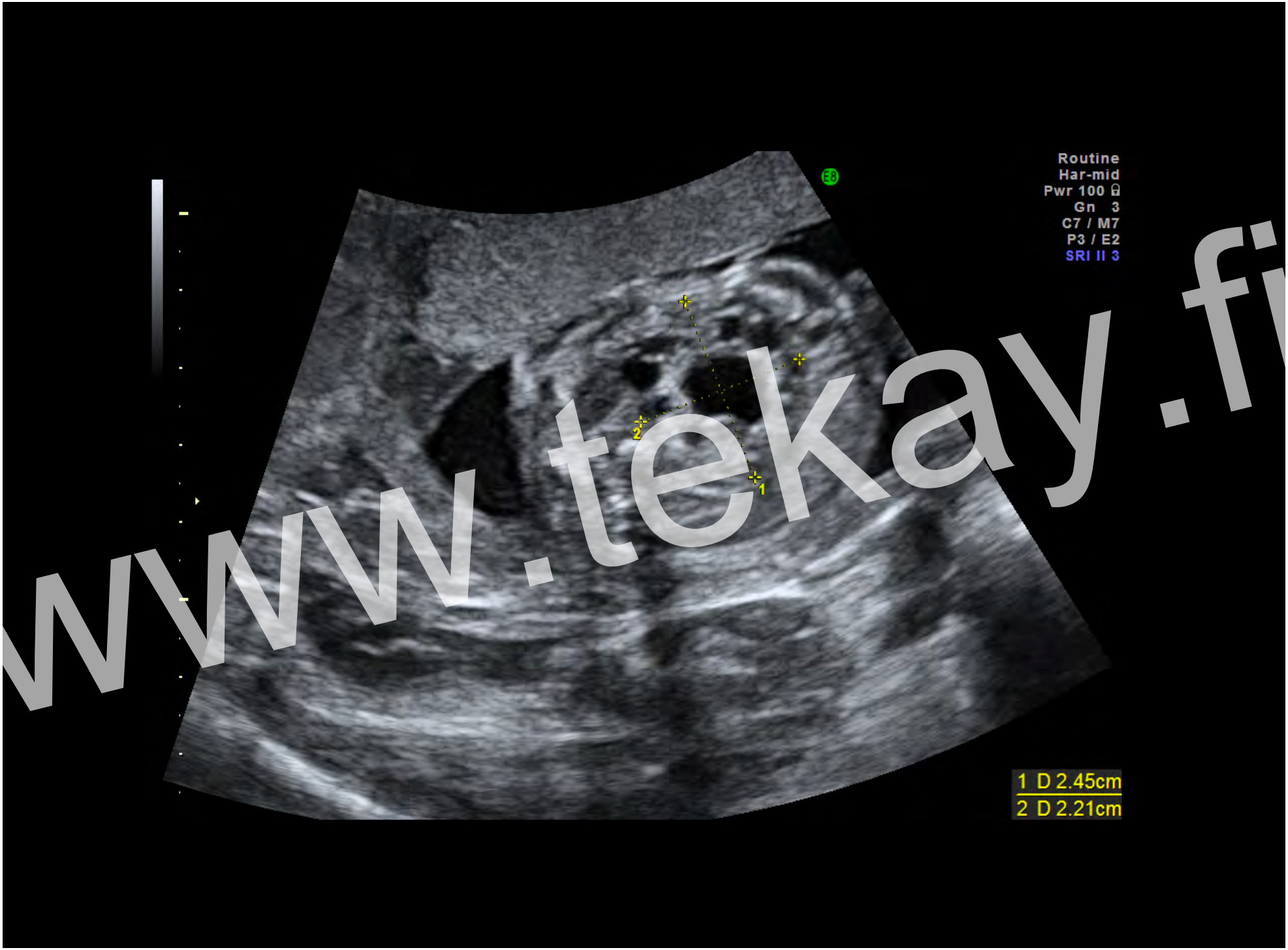
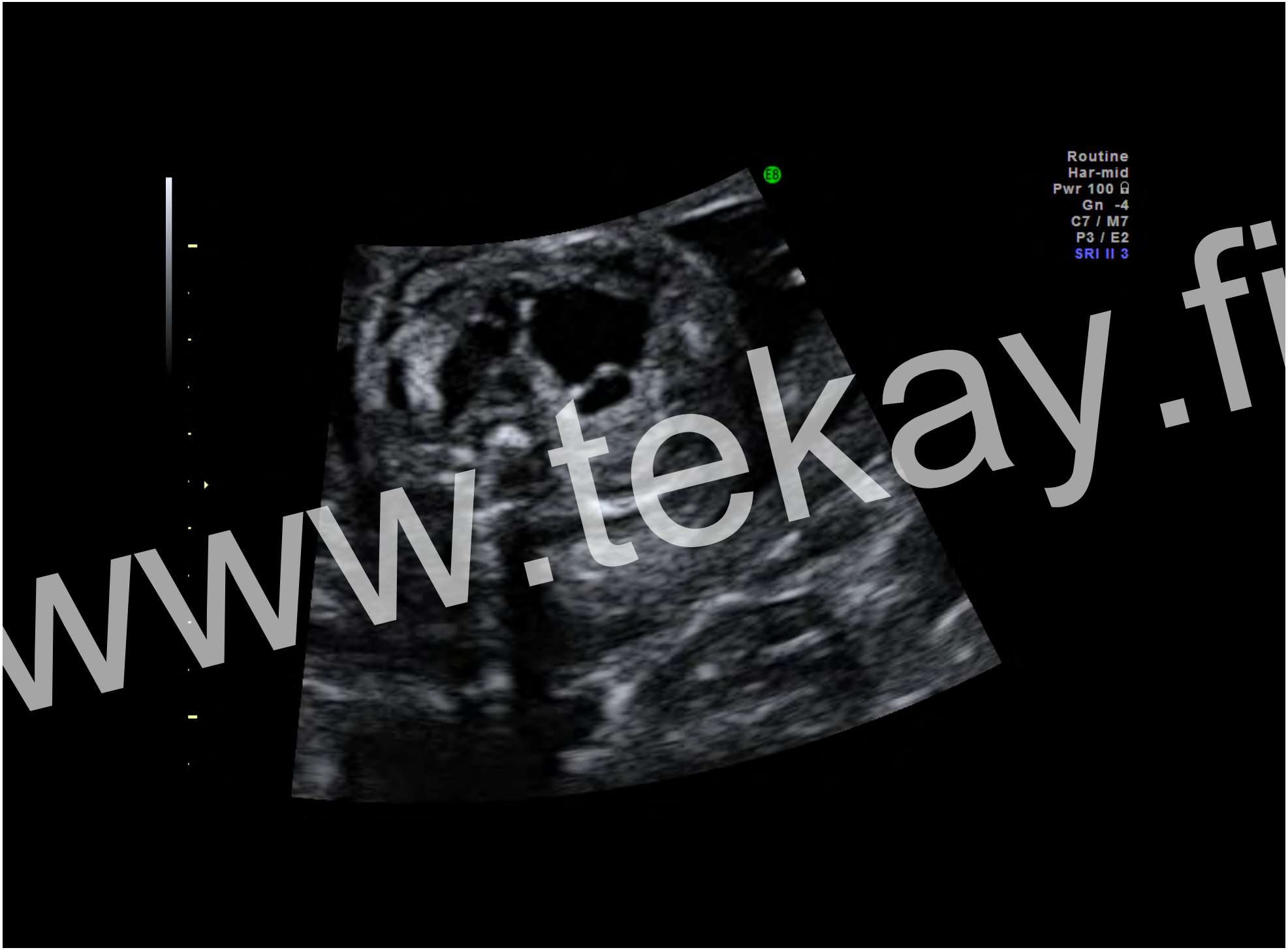

Voluson
E8
MI 1.1
OYS
TIs 0.1
26.03.2012
13:52:29
Routine
Har-mid
Pwr 100
Gn 2
C7 / M7
P3 / E2
SRI II 3
OIK MUN
1
Voluson
E8
I 1.1
OYS
TIs 0.1
26.03.2012
13:54:32
Routine
Har-mid
Pwr 100
Gn 2
C7 / M7
P3 / E2
SRI II 3
1 D 4.79cm
GA=32w0d
8.3cm / 1.1 / 46Hz
TIs 0.1
26.03.2012
13:57:59
Routine
Har-mid
Pwr 100
Gn 4
C7 / M7
P3 / E2
SRI II 3
www.tekay.fi

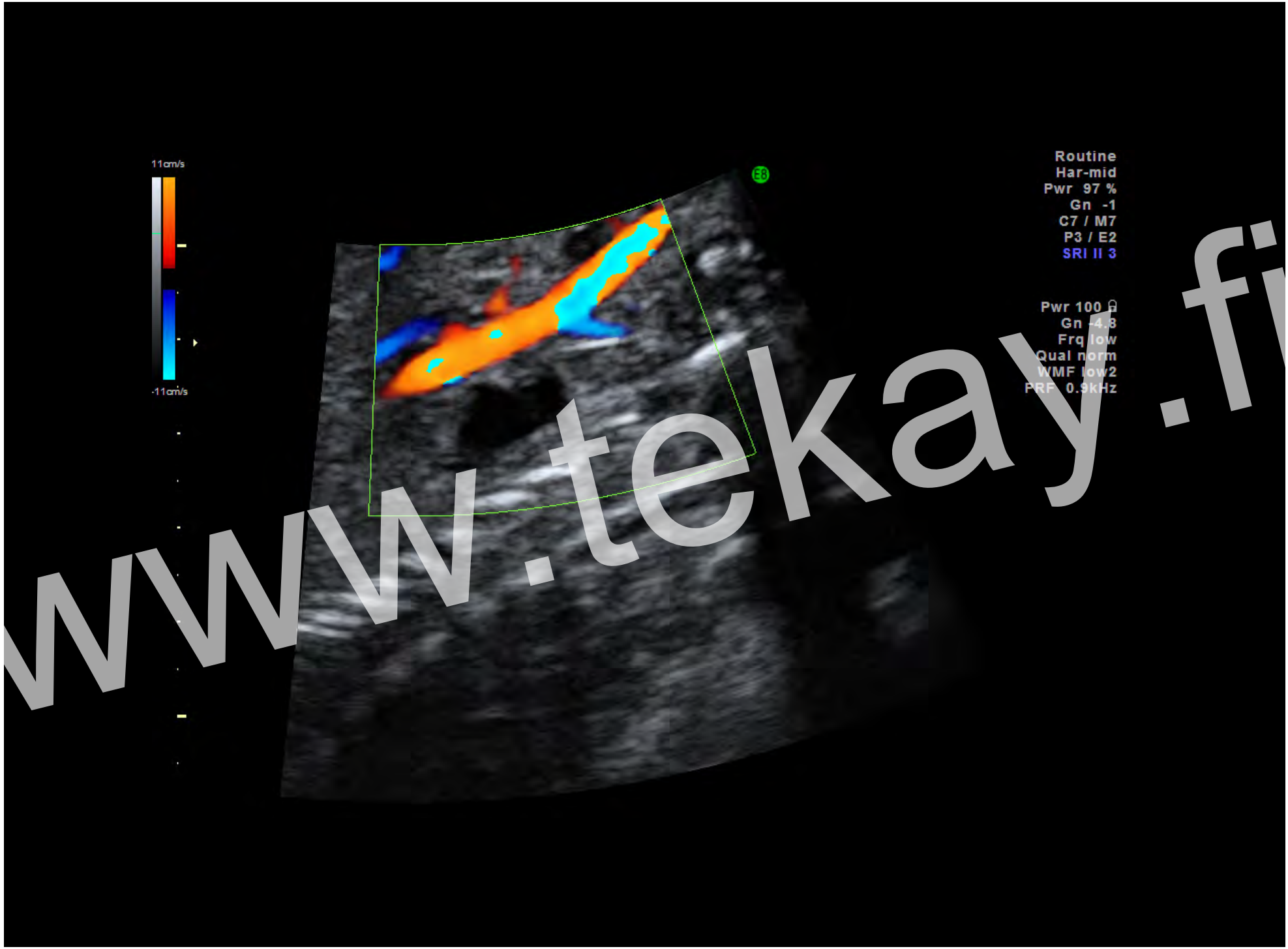

Dept. OB/Gyn., University of Oulu
30 Sep 03
10:29:33 am
6C2
6.0MHz
120mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB S1/+1/2/ 4
Gain= 8dB Δ=3
Store in progress
1 Dist = 5.55cm
2 Dist = 2.74cm
Delete Set
Lock Set
Select Set
www.tekay.fi

ECTOPIC KIDNEY

www.tekay.fi


Routine
Har-mid
Pwr 100
Gn 3
C7 / M7
P3 / E2
SRI II 3
1 D 2.45cm
2 D 2.21cm
www.tekay.fi


Routine
Har-mid
Pwr 100
Gn -4
C7 / M7
P3 / E2
SRI II 3
www.tekay.fi


11cm/s
-11cm/s
Routine
Har-mid
Pwr 97 %
Gn -1
C7 / M7
P3 / E2
SRI II 3
Pwr 100
Gn -4.8
Frq low
Qual norm
WMF low2
PRF 0.9kHz
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Renal Cystic disease

- Multicystic dysplastic kidney

  MCDK = Potter Type II

  GROWS until nephrons die >> SHRINKS

  Multiple cysts – cysts do not communicate - enlarged kidney

  First trim. and early second trim. may escape detection!

  Most often unilateral

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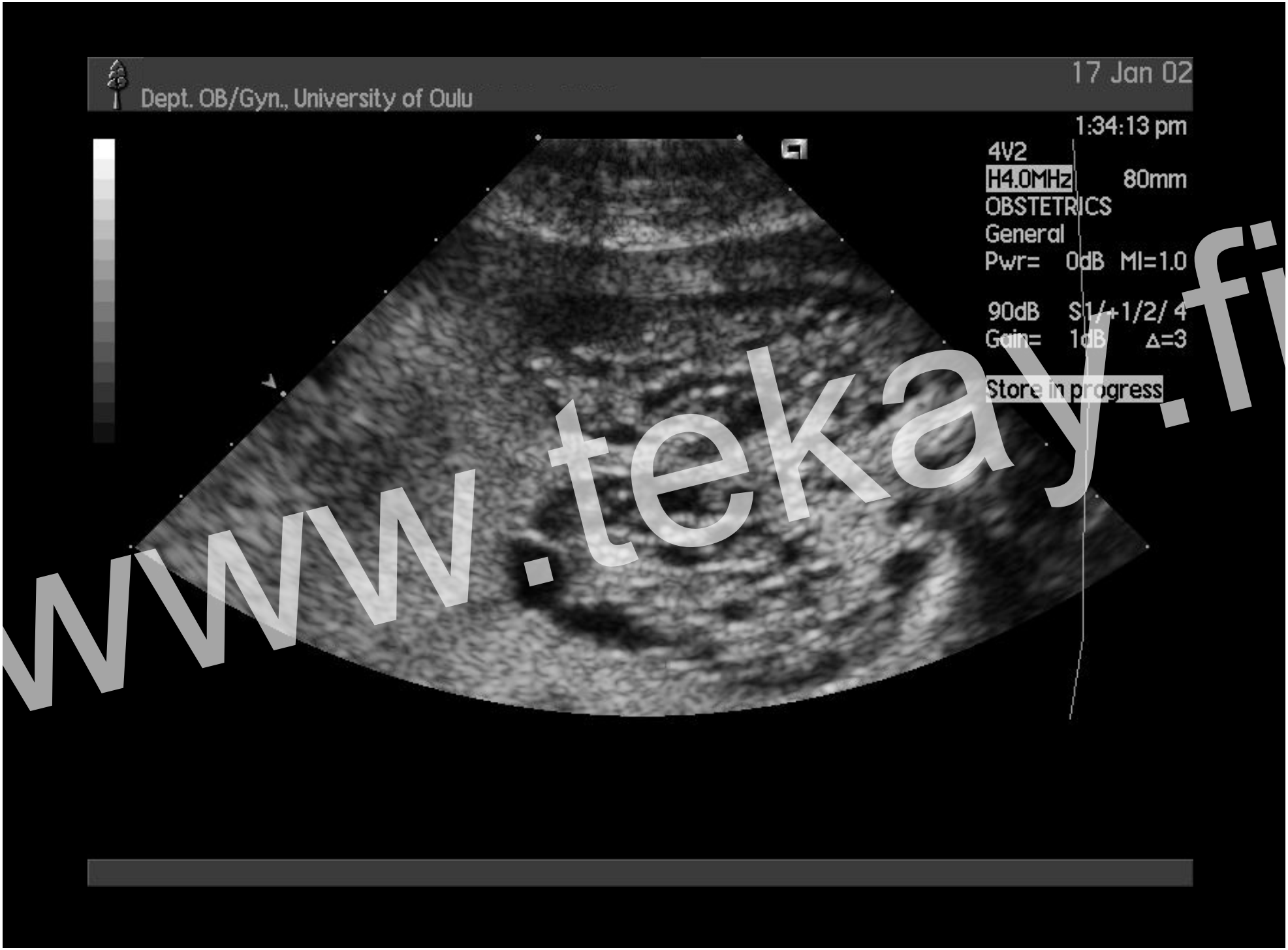
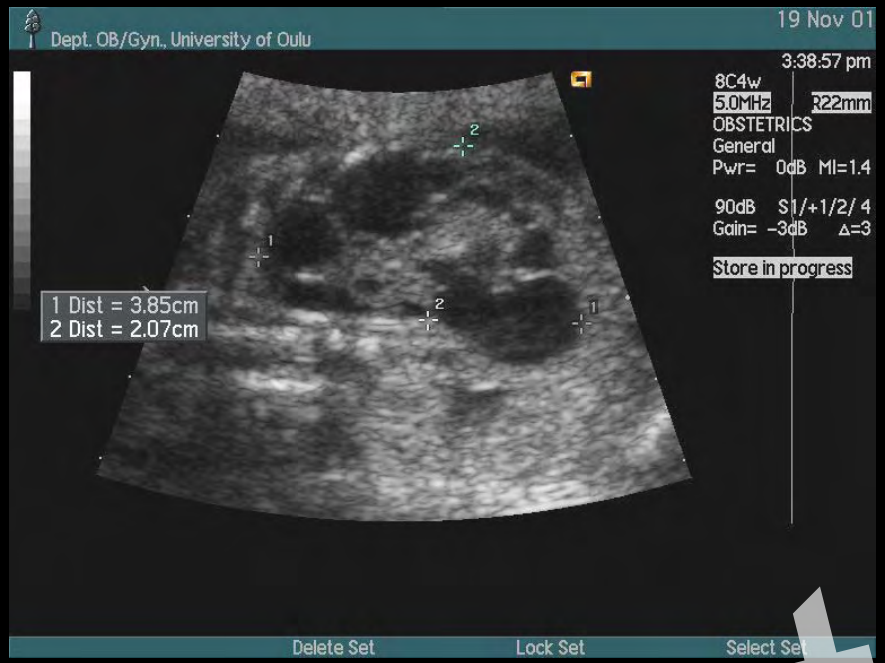
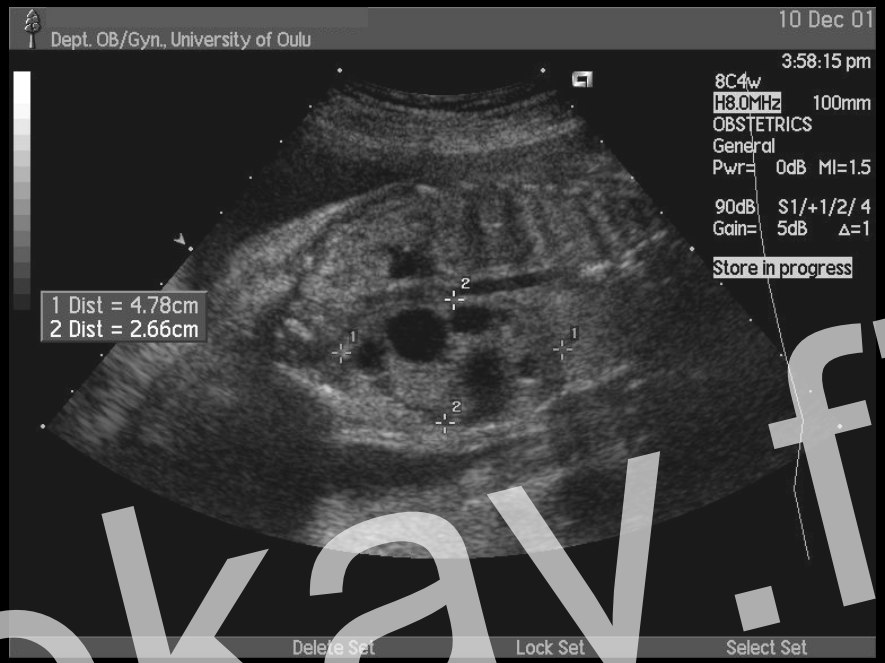
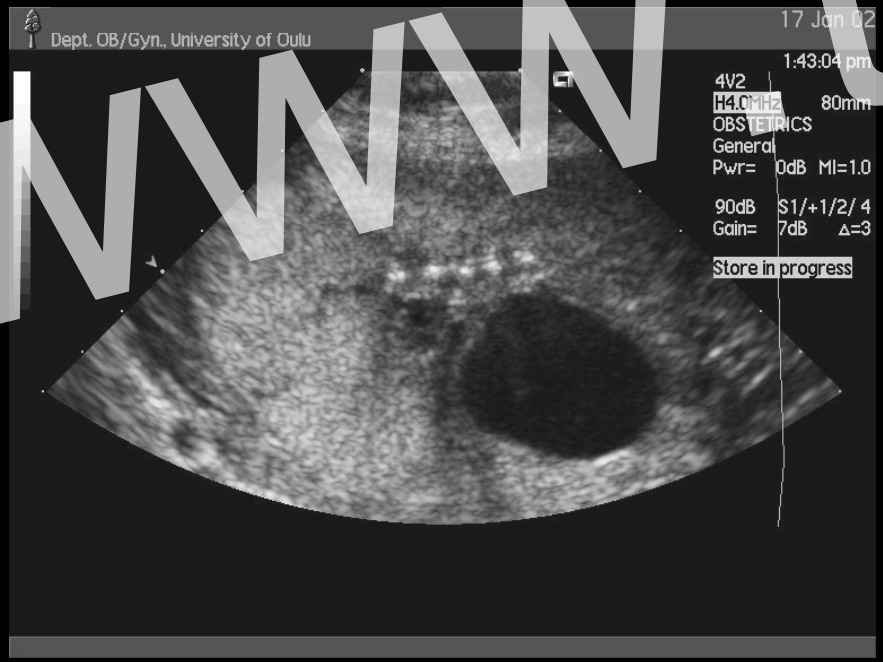
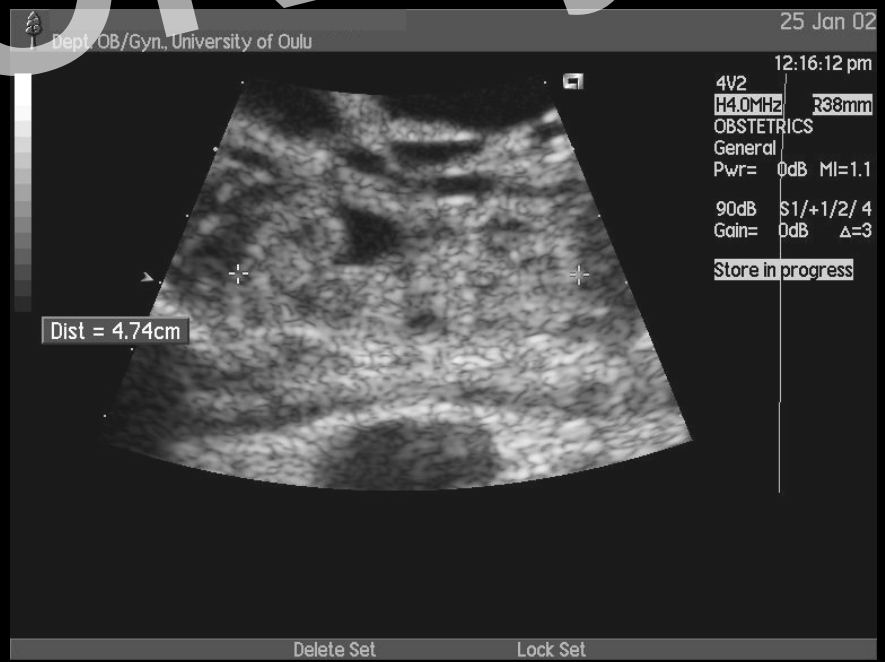

Dept. OB/Gyn., University of Oulu
17 Jan 02
1:34:13 pm
4V2
H4.0MHz
80mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB S1/+1/2/ 4
Gain= 1dB Δ=3
Store in progress
www.tekay.fi


Dept. OB/Gyn., University of Oulu
19 Nov 01
3:38:57 pm
8C4w
5.0MHz
OBSTETRICS
General
Pwr= 0dB MI=1.4
90dB S1/+1/2/ 4
Gain= -3dB Δ=3
Store in progress
1 Dist = 3.85cm
2 Dist = 2.07cm
Delete Set
Lock Set
Select Set


Dept. OB/Gyn., University of Oulu
10 Dec 01
3:58:15 pm
8C4w
H8.0MHz 100mm
OBSTETRICS
General
Pwr= 0dB MI=1.5
90dB S1/+1/2/ 4
Gain= 5dB Δ=1
Store in progress
1 Dist = 4.78cm
2 Dist = 2.66cm
Delete Set
Lock Set
Select Set


Dept. OB/Gyn., University of Oulu
17 Jan 02
1:43:04 pm
4V2
80mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB S1/+1/2/ 4
Gain= 7dB Δ=3
Store in progress


Dept. OB/Gyn., University of Oulu
25 Jan 02
12:16:12 pm
4V2
H4.0MHz
OBSTETRICS
General
Pwr= 0dB MI=1.1
90dB S1/+1/2/ 4
Gain= 0dB Δ=3
Store in progress
Dist = 4.74cm
Delete Set
Lock Set

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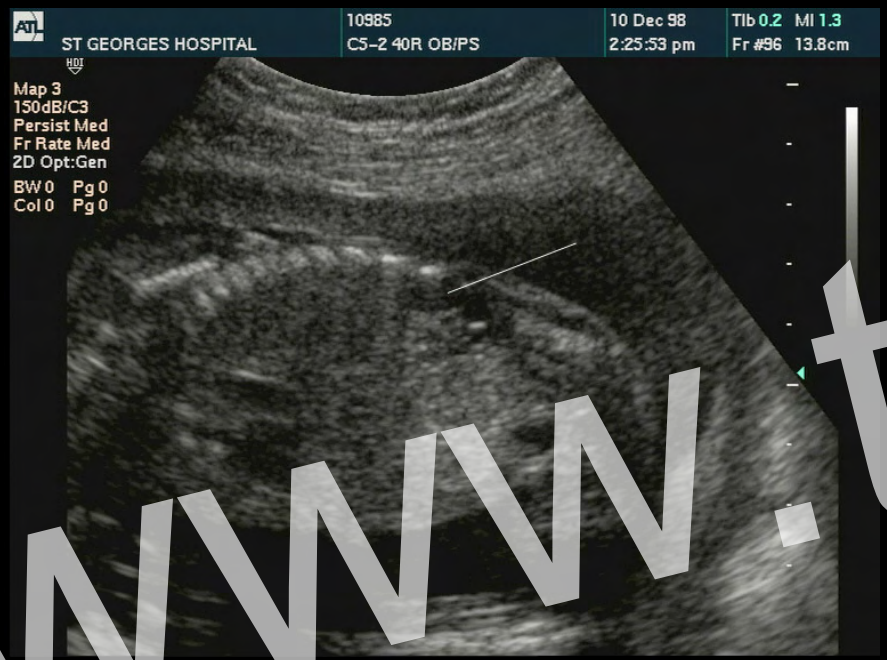
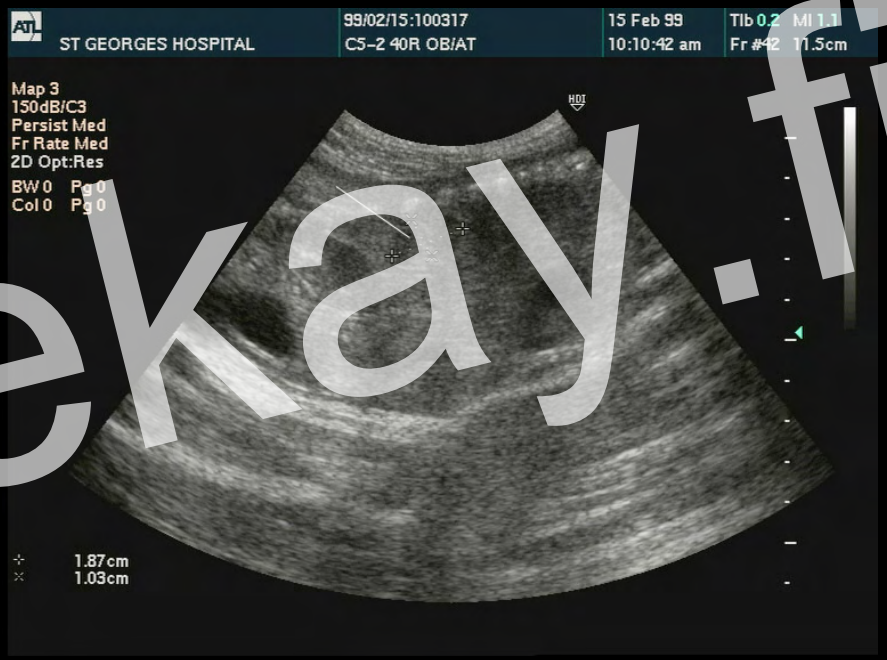

ST GEORGES HOSPITAL
10985
C5-2 40R OB/PS
10 Dec 98
2:25:53 pm
TIb 0.2 MI 1.3
Fr #96 13.8cm
Map 3
150dB/C3
Persist Med
Fr Rate Med
2D Opt:Gen
BW 0 Pg 0
Col 0 Pg 0


ST GEORGES HOSPITAL
99/02/15:100317
C5-2 40R OB/AT
15 Feb 99
10:10:42 am
TIb 0.2 MI 1.1
Map 3
150dB/C3
Persist Med
Fr Rate Med
2D Opt:Res
BW 0 Pg 0
Col 0 Pg 0
1.87cm
1.03cm

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Renal Cystic disease

- Polycystic renal disease
  (*autosomal recessive*: **ARPKD** = infantile polycystic KD)

  Increased echogenicity, oligohydramnios, enlarged kidneys
  Microcysts not visible
  Diagnosis between 19-24w

- Polycystic renal disease
  (*autosomal dominant*: **ADPKD** = adult type polycystic KD)

  Increased echogenicity, oligohydramnios, enlarged kidneys
  Microcysts not visible
  Diagnosis between 19-24w
  One of the parents affected!

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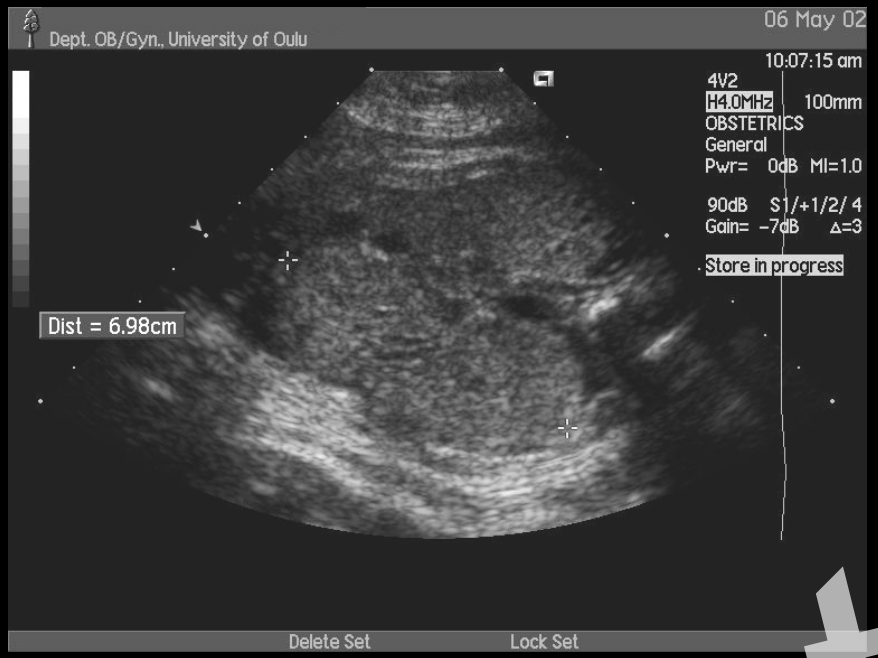
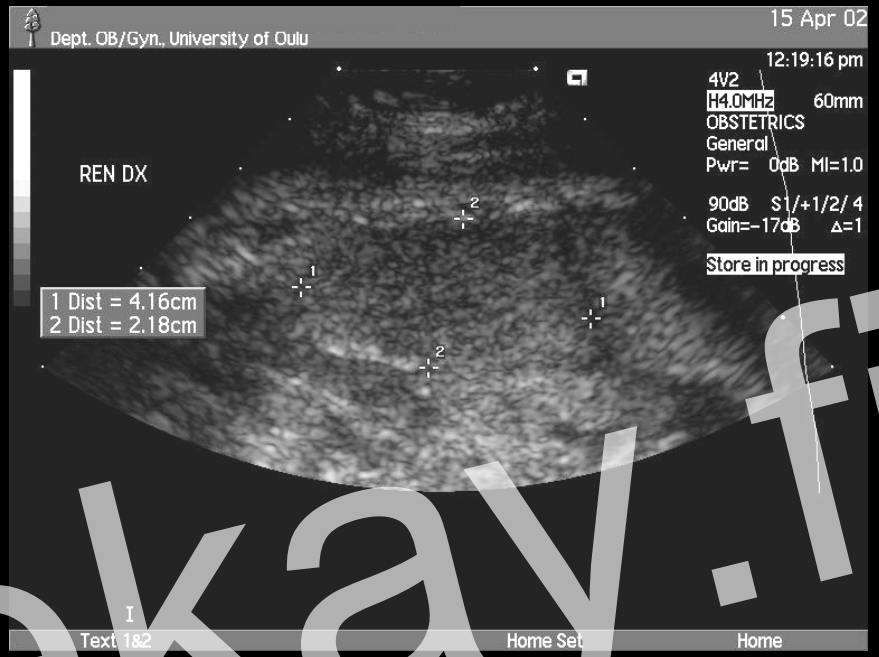
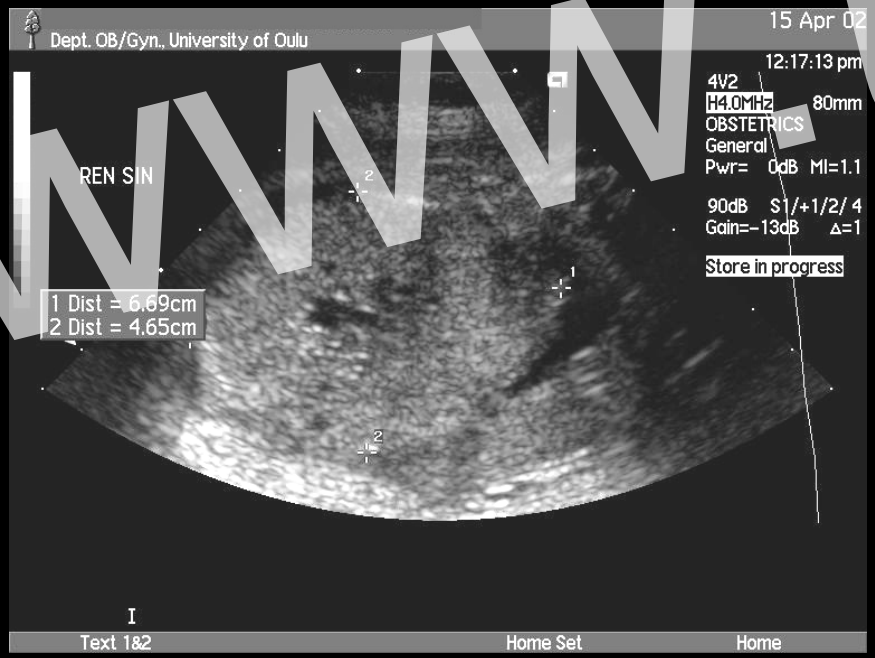
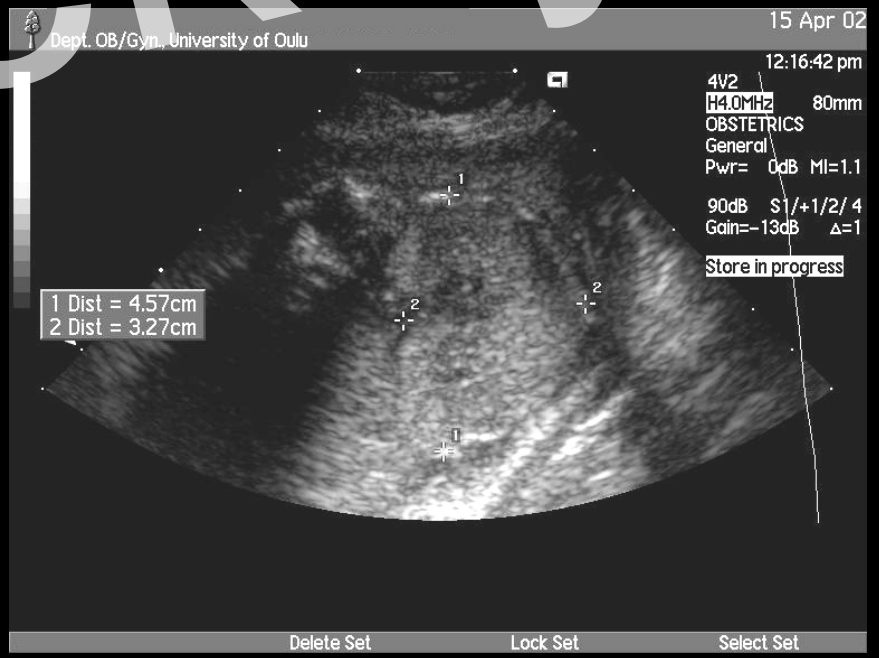

Dept. OB/Gyn., University of Oulu
06 May 02
10:07:15 am
4V2
H4.0MHz 100mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB S1/+1/2/ 4
Gain= -7dB Δ=3
Store in progress
Dist = 6.98cm
Delete Set
Lock Set


Dept. OB/Gyn., University of Oulu
15 Apr 02
12:19:16 pm
4V2
H4.0MHz 60mm
OBSTETRICS
General
Pwr= 0dB MI=1.0
90dB S1/+1/2/ 4
Gain=-17dB Δ=1
Store in progress
REN DX
1 Dist = 4.16cm
2 Dist = 2.18cm
Text 1&2
Home Set
Home


Dept. OB/Gyn., University of Oulu
15 Apr 02
12:17:13 pm
4V2
H4.0MHz 80mm
OBSTETRICS
General
Pwr= 0dB MI=1.1
90dB S1/+1/2/ 4
Gain=-13dB Δ=1
Store in progress
REN SIN
1 Dist = 6.69cm
2 Dist = 4.65cm
Text 1&2
Home Set
Home


Dept. OB/Gyn., University of Oulu
15 Apr 02
12:16:42 pm
4V2
H4.0MHz 80mm
OBSTETRICS
General
Pwr= 0dB MI=1.1
90dB S1/+1/2/ 4
Gain=-13dB Δ=1
Store in progress
1 Dist = 4.57cm
2 Dist = 3.27cm
Delete Set
Lock Set
Select Set

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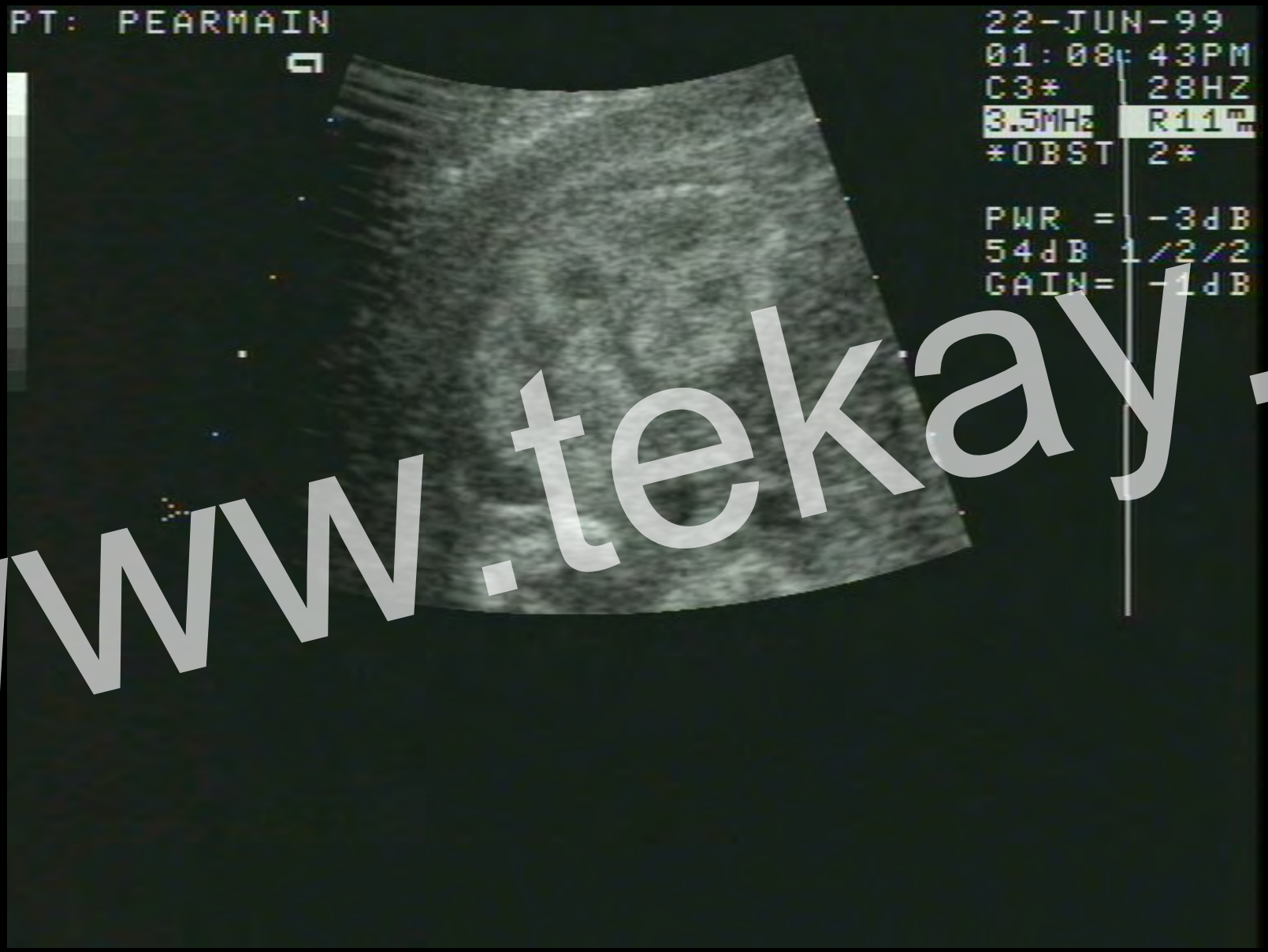
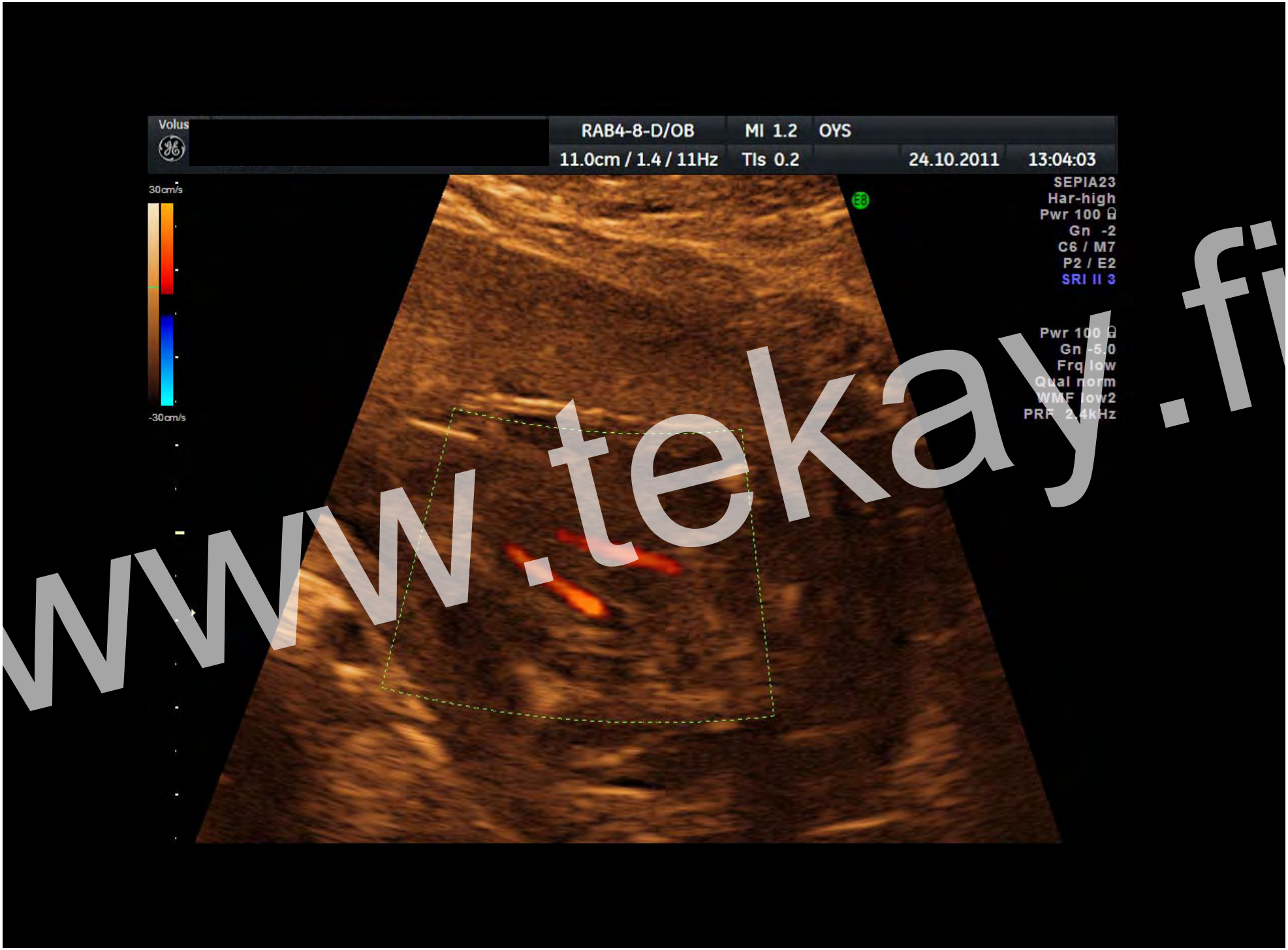
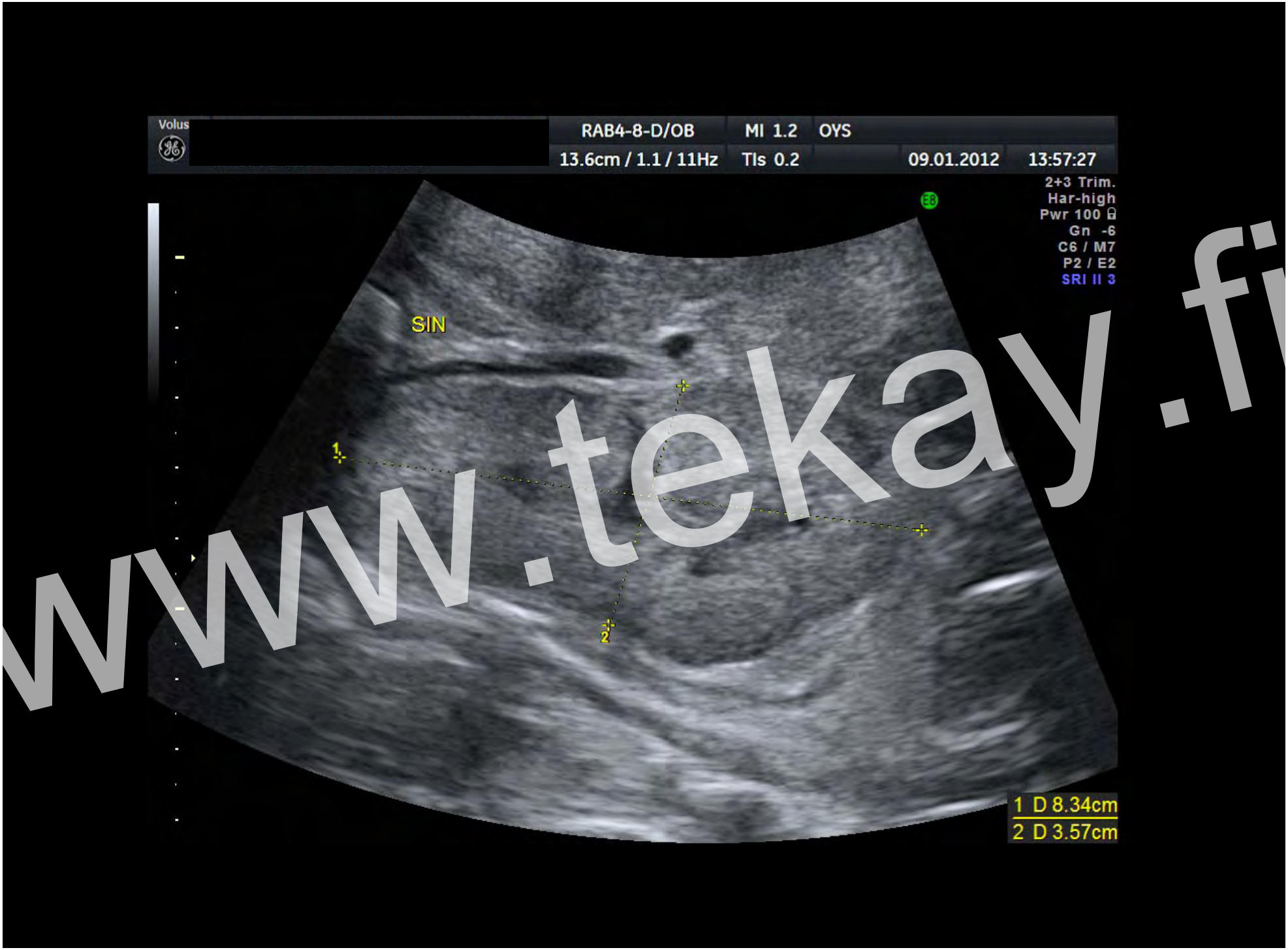
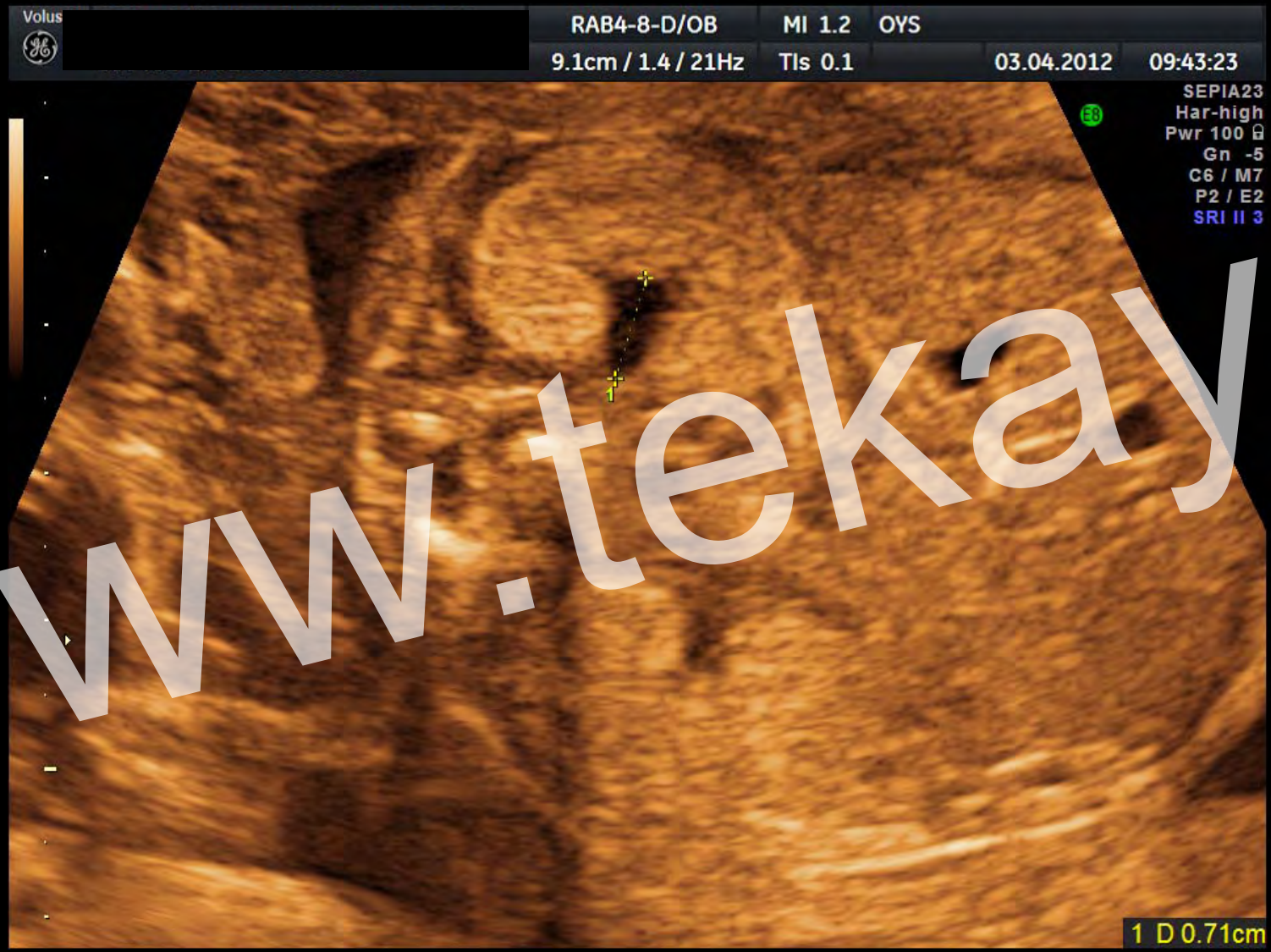
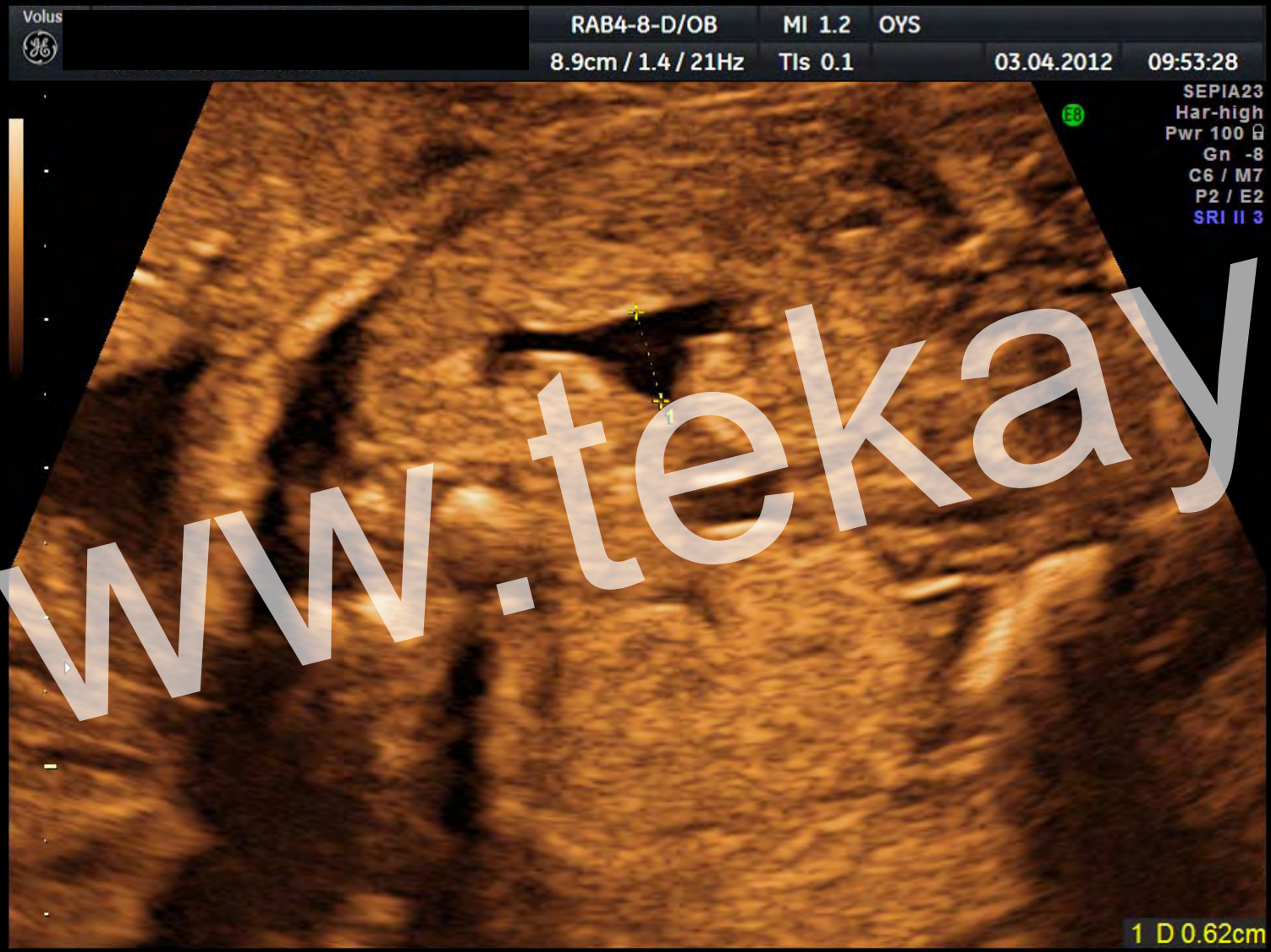

PT: PEARMAIN
22-JUN-99
01:08:43PM
C3*
28HZ
3.5MHz
R11
*OBST
2*
PWR =
-3dB
54dB
1/2/2
GAIN=
-1dB
www.tekay.fi

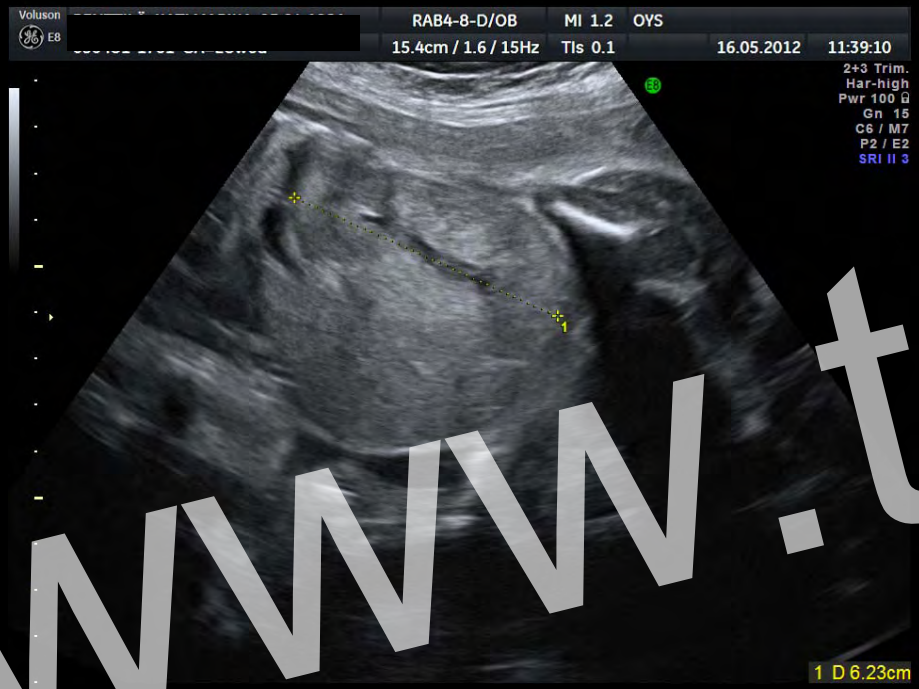

Volus
RAB4-8-D/OB
MI 1.2
OYS
11.0cm / 1.4 / 11Hz
TIs 0.2
24.10.2011
13:04:03
30cm/s
-30cm/s
SEPIA23
Har-high
Pwr 100
Gn -2
C6 / M7
P2 / E2
SRI II 3
Pwr 100
Gn -5.0
Frq low
Qual norm
WMF low2
PRF 2.4kHz
www.tekay.fi

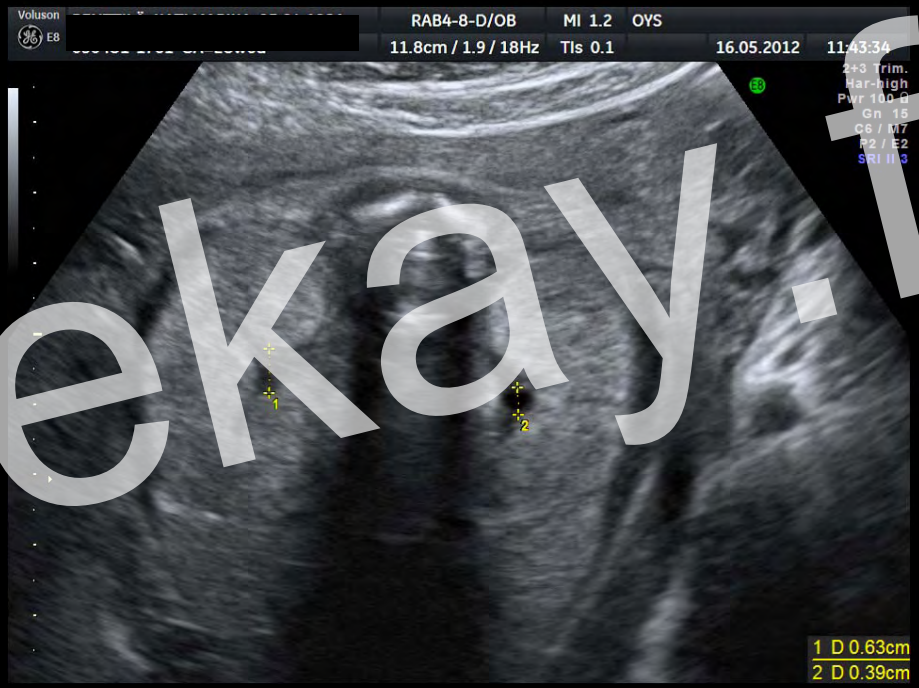

Volus
RAB4-8-D/OB
MI 1.2
OYS
8.6cm / 1.4 / 21Hz
TIs 0.2
02.11.2011
13:22:06
SEPIA23
Har-high
Pwr 100
Gn 4
C6 / M7
P2 / E2
SRI II 3
www.tekay.fi


Volus
RAB4-8-D/OB
MI 1.2
OYS
13.6cm / 1.1 / 11Hz
TIs 0.2
09.01.2012
13:57:27
2+3 Trim.
Har-high
Pwr 100
Gn -6
C6 / M7
P2 / E2
SRI II 3
SIN
1
2
1 D 8.34cm
2 D 3.57cm
www.tekay.fi


Volus
RAB4-8-D/OB
MI 1.2
OYS
9.1cm / 1.4 / 21Hz
TIs 0.1
03.04.2012
09:43:23
SEPIA23
Har-high
Pwr 100
Gn -5
C6 / M7
P2 / E2
SRI II 3
1 D 0.71cm
www.tekay.fi


Volus
RAB4-8-D/OB
MI 1.2
OYS
8.9cm / 1.4 / 21Hz
TIs 0.1
03.04.2012
09:53:28
SEPIA23
Har-high
Pwr 100
Gn -8
C6 / M7
P2 / E2
SRI II 3
1 D 0.62cm
www.tekay.fi


Voluson
E8
RAB4-8-D/OB
MI 1.2
OYS
15.4cm / 1.6 / 15Hz
TIs 0.1
16.05.2012
11:39:10
2+3 Trim.
Har-high
Pwr 100
Gn 15
C6 / M7
P2 / E2
SRI II 3
1 D 6.23cm


Voluson
E8
RAB4-8-D/OB
MI 1.2
OYS
11.8cm / 1.9 / 18Hz
TIs 0.1
16.05.2012
11:43:34
2+3 Trim.
Har-high
Pwr 100
Gn 15
C6 / M7
P2 / E2
SRI II 3
1 D 0.63cm
2 D 0.39cm

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OTHER

- Ovarian cysts
- Abnormal genitalia
- Neoplasms

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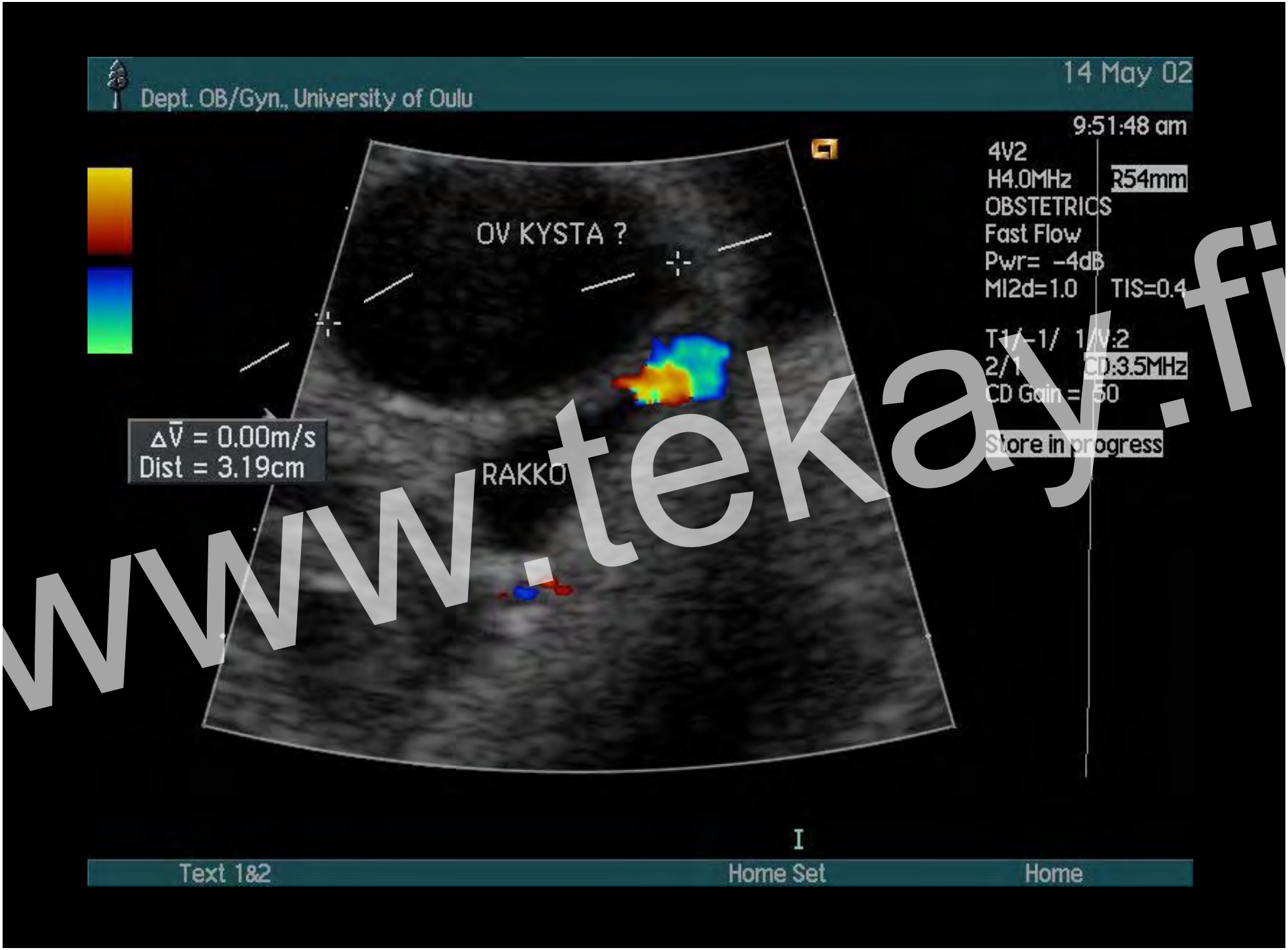
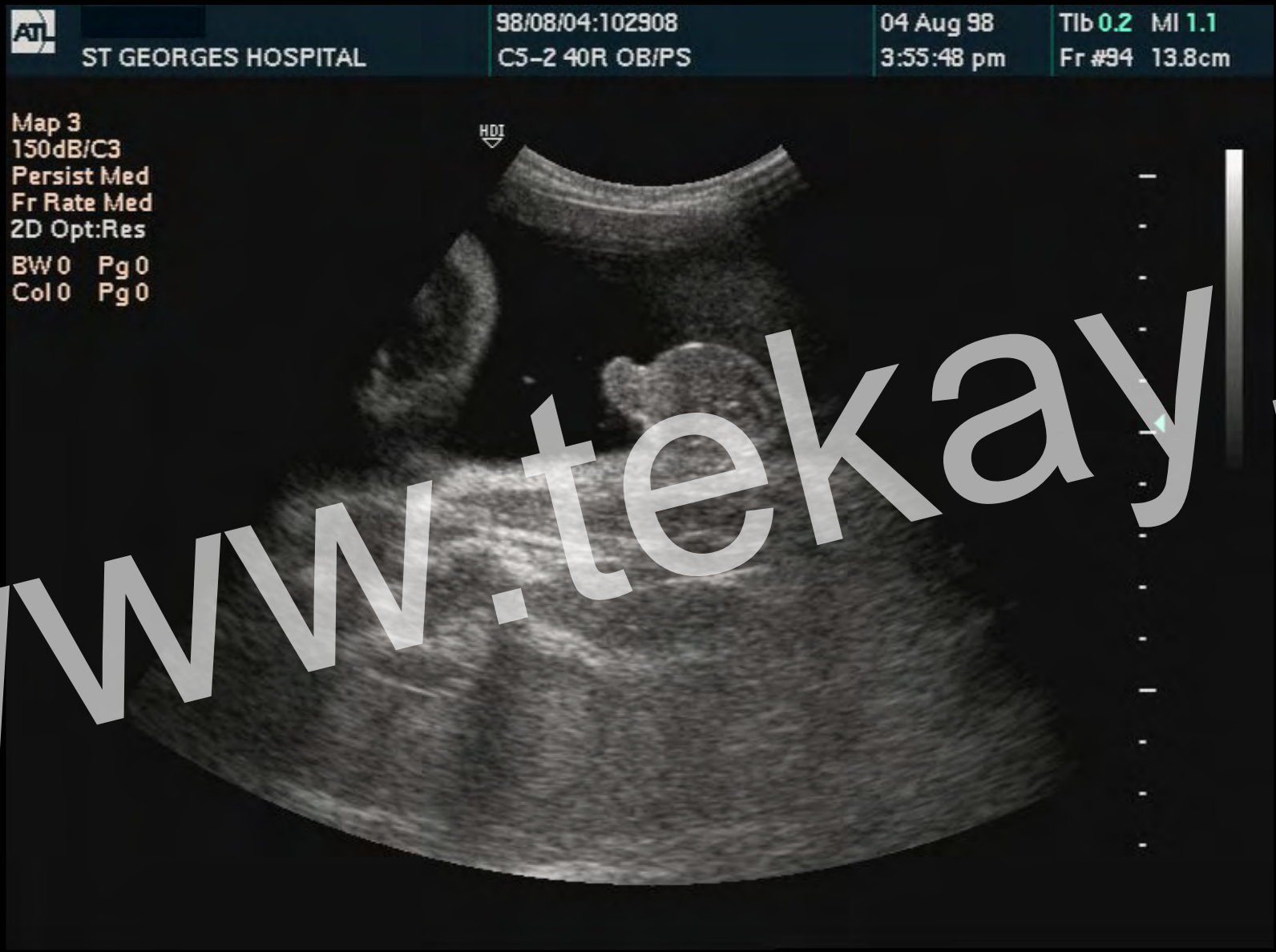

Dept. OB/Gyn., University of Oulu
14 May 02
9:51:48 am
4V2
H4.0MHz
R54mm
OBSTETRICS
Fast Flow
Pwr= -4dB
MI2d=1.0
TIS=0.4
T1/-1/ 1/V:2
2/1
CD:3.5MHz
CD Gain = 50
Store in progress
OV KYSTA ?
RAKKO
ΔV̄ = 0.00m/s
Dist = 3.19cm
Text 1&2
Home Set
Home
www.tekay.fi


ST GEORGES HOSPITAL
98/08/04:102908
C5-2 40R OB/PS
04 Aug 98
3:55:48 pm
TIb 0.2 MI 1.1
Fr #94 13.8cm
Map 3
150dB/C3
Persist Med
Fr Rate Med
2D Opt:Res
BW 0 Pg 0
Col 0 Pg 0
HDI

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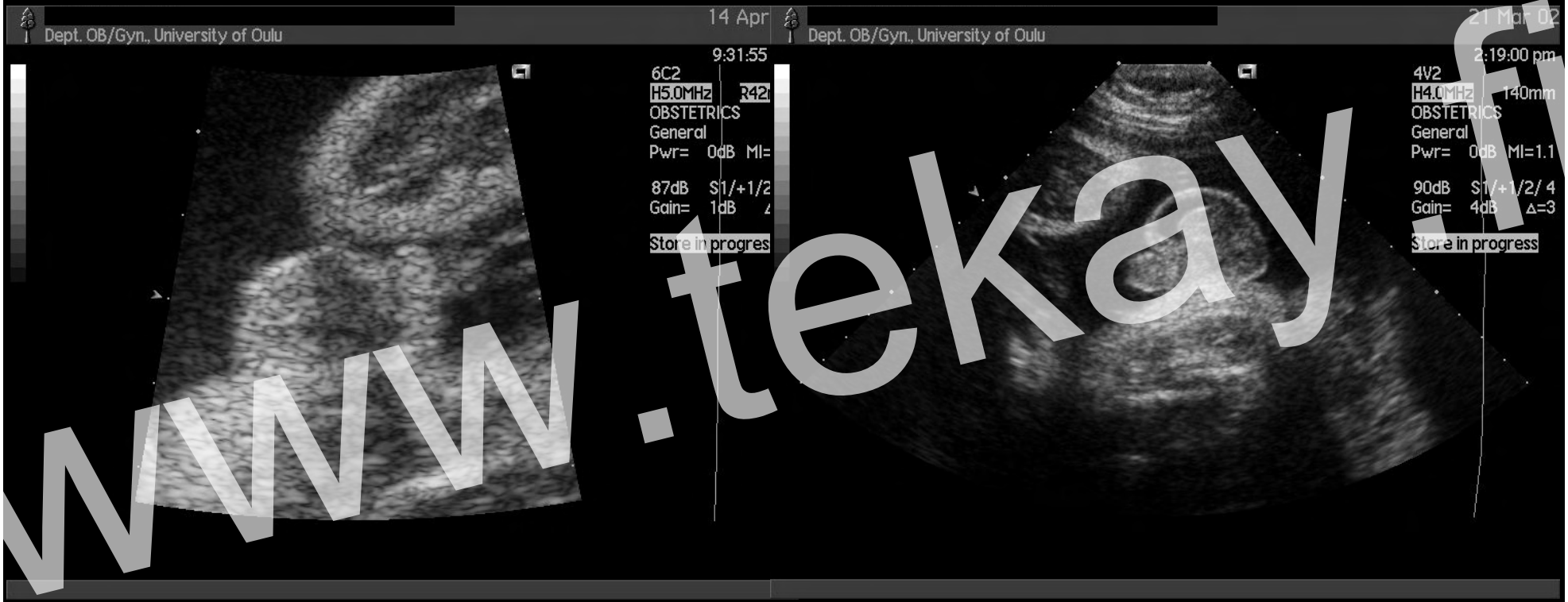
Dept. OB/Gyn., University of Oulu
14 Apr
9:31:55
6C2
H5.0MHz
OBSTETRICS
General
Pwr= 0dB MI=
87dB S1/+1/2
Gain= 1dB
Store in progres
Dept. OB/Gyn., University of Oulu
2:19:00 pm
4V2
H4.0MHz 140mm
OBSTETRICS
General
Pwr= 0dB MI=1.1
90dB S1/+1/2/ 4
Gain= 4dB Δ=3
Store in progress

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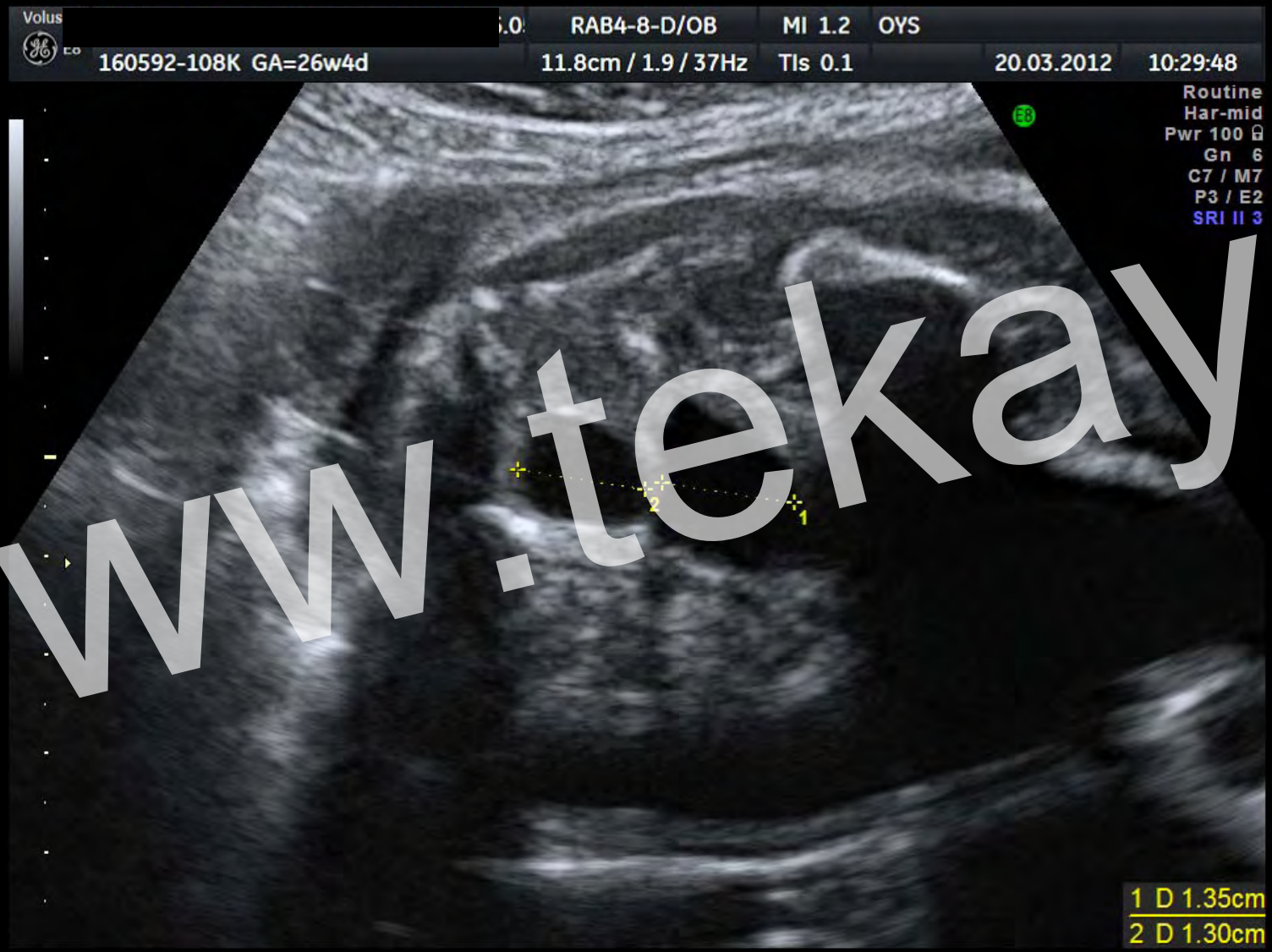
Urogenitaalikysta



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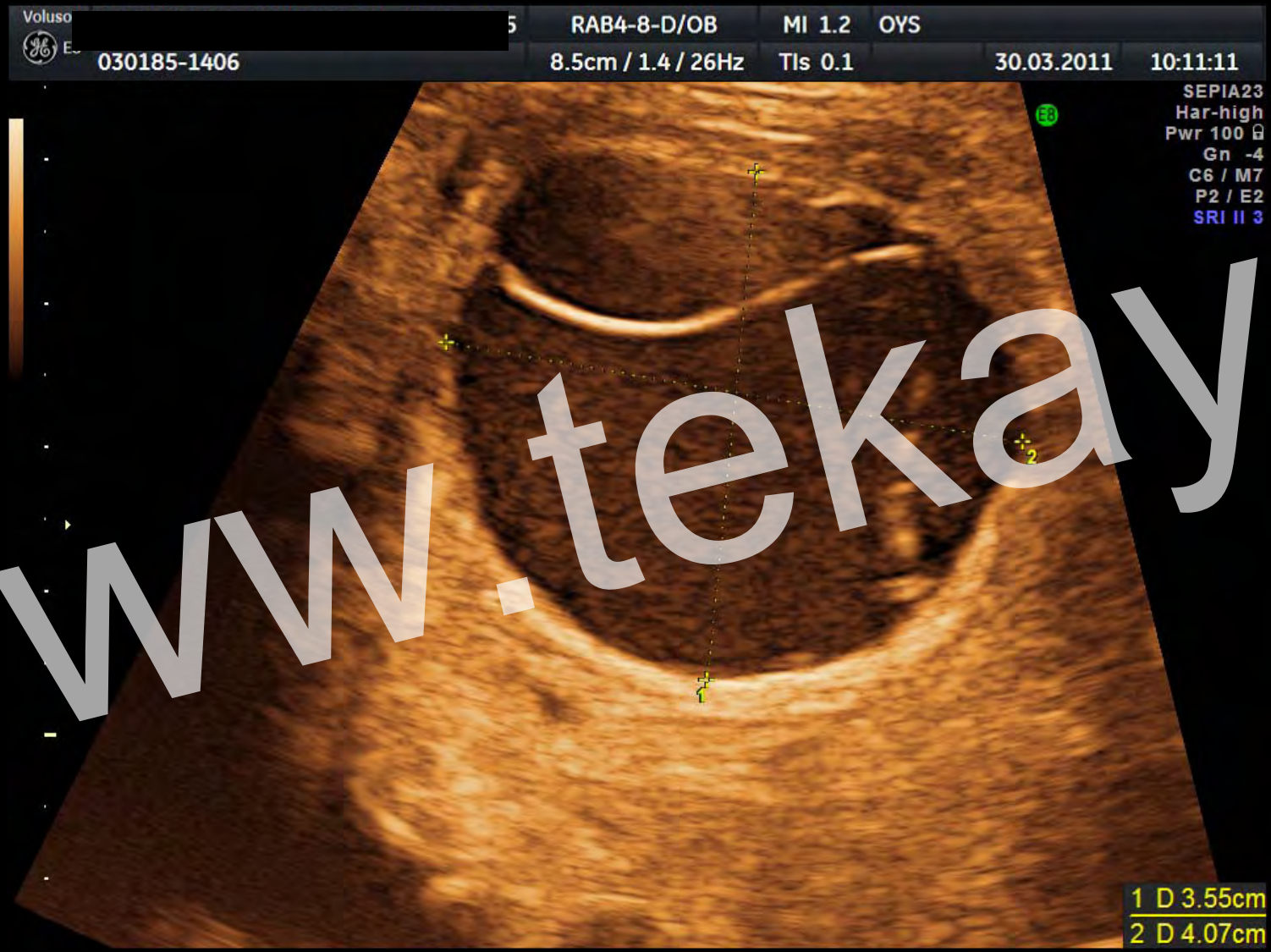
Lisämunaisverenvuoto



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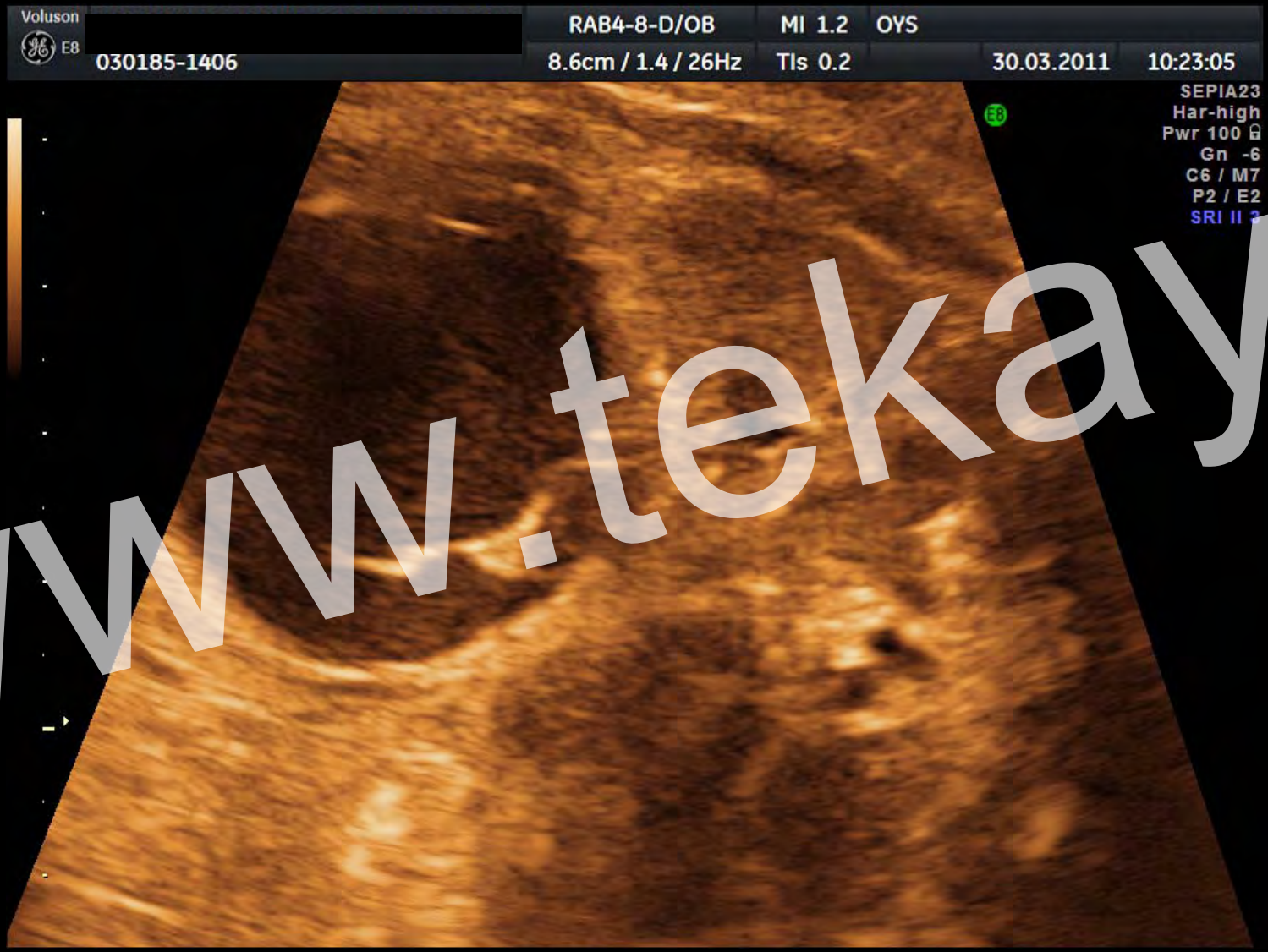
Lisämunaisverenvuoto



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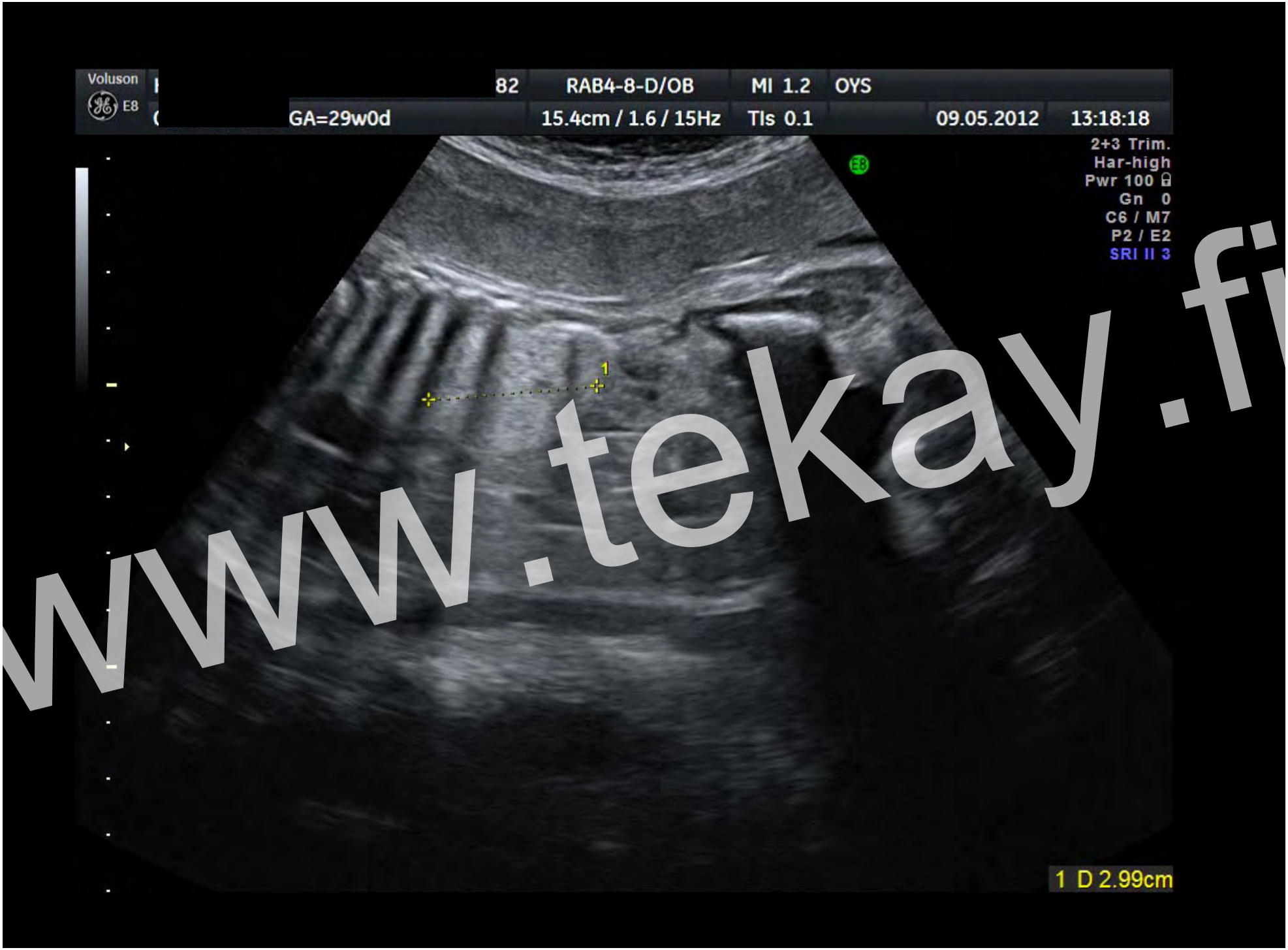
Voluson
E8
.1982
RAB4-8-D/OB
MI 1.2
OYS
B GA=29w0d
11.8cm / 1.6 / 18Hz
TIs 0.1
09.05.2012
13:26:59
2+3 Trim.
Har-high
Pwr 100
Gn -11
C6 / M7
P2 / E2
SRI II 3
1 D 2.77cm
2 D 1.92cm
www.tekay.fi


Voluson
E8
82
RAB4-8-D/OB
MI 1.2
OYS
GA=29w0d
15.4cm / 1.6 / 15Hz
TIs 0.1
09.05.2012
13:18:18
2+3 Trim.
Har-high
Pwr 100
Gn 0
C6 / M7
P2 / E2
SRI II 3
1
1 D 2.99cm
www.tekay.fi