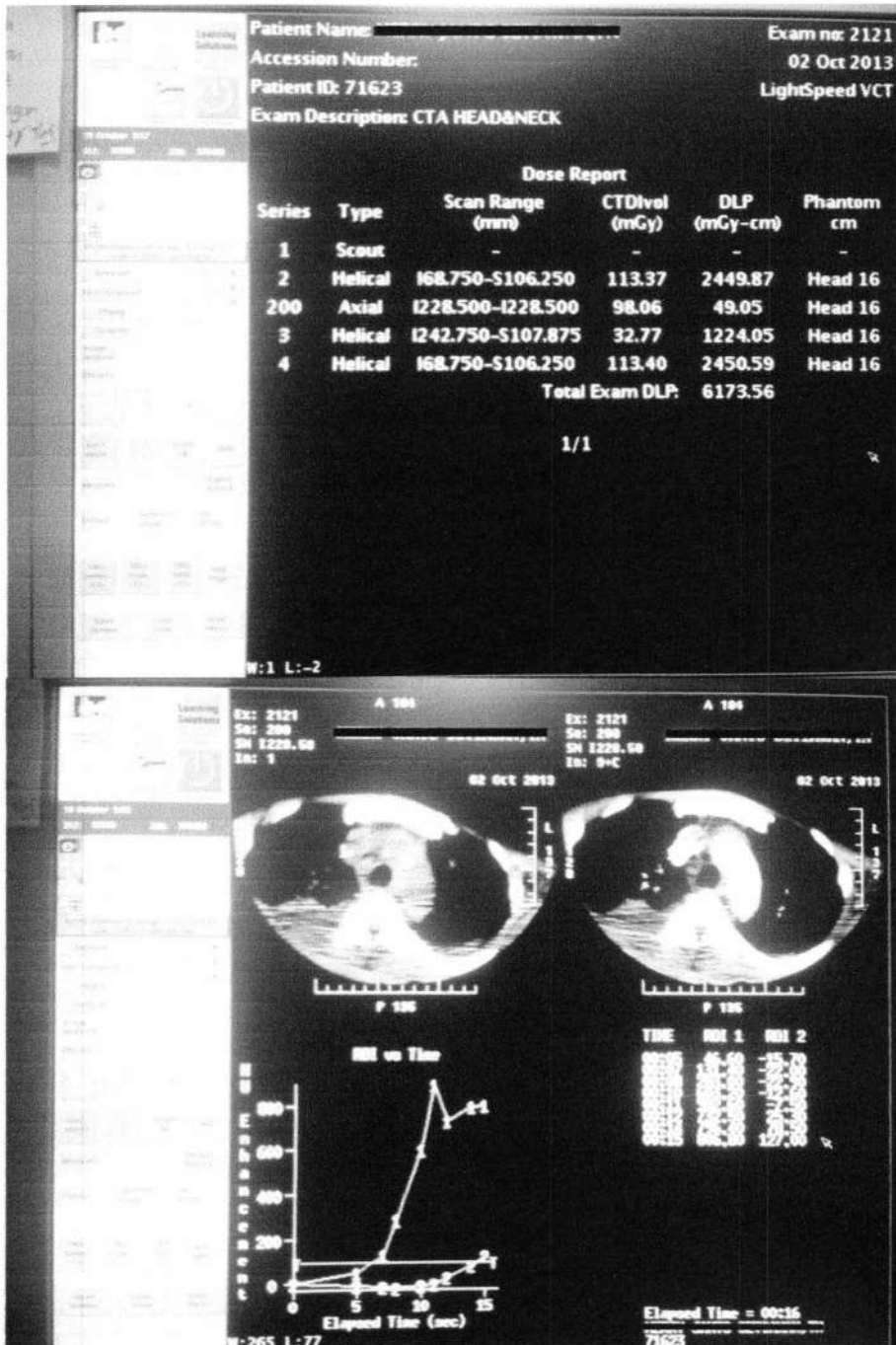


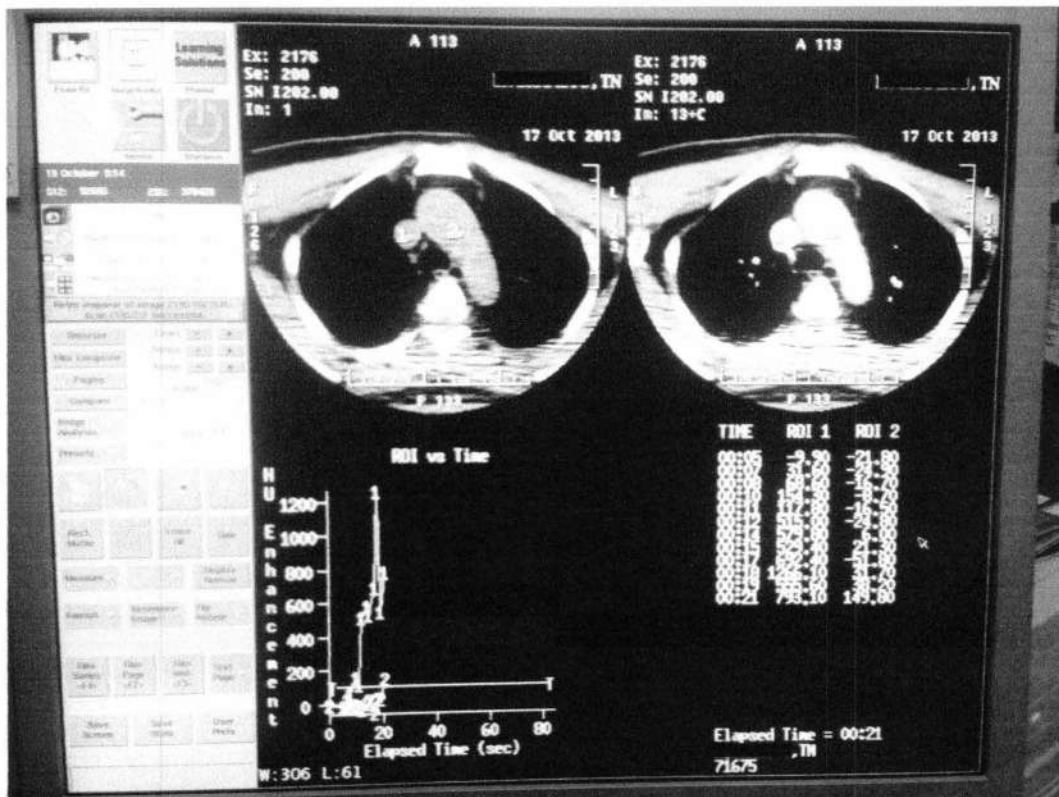
LAMPIRAN 1

FOTO DATA PASIEN

Pasien Tanggal 2 Oktober 2013



Pasien tanggal 17 Oktober 2013



Patient Name: _____, TN
 Accession Number: _____
 Patient ID: 71675
 Exam Description: CTA HEAD&NECK

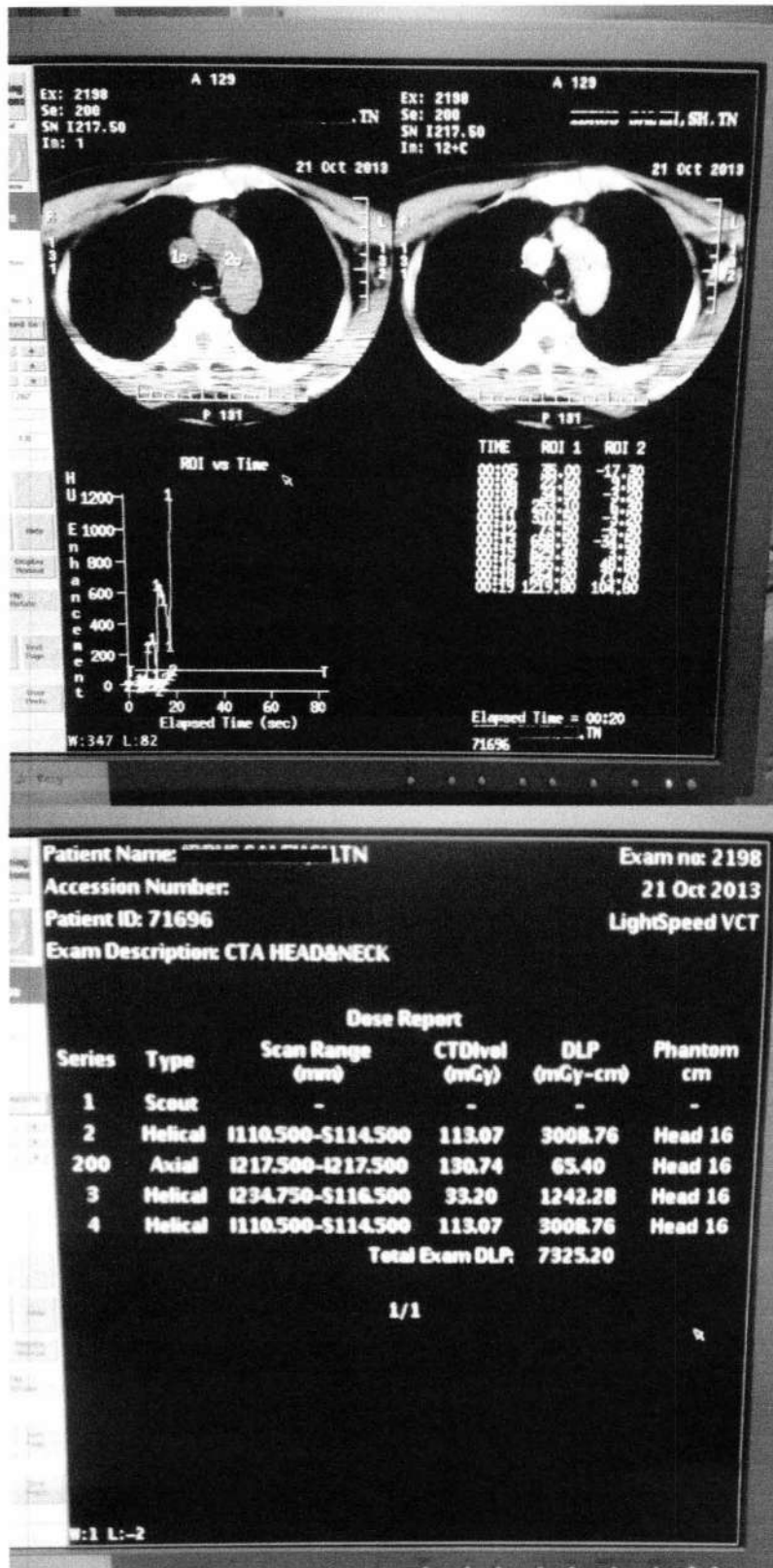
Exam no: 2176
 17 Oct 2013
 LightSpeed VCT

Dose Report

Series	Type	Scan Range (mm)	CTDIvol (mGy)	DLP (mGy-cm)	Phantom cm
1	Scout	-	-	-	-
2	Helical	I49.500-S110.500	114.60	2304.55	Head 16
200	Axial	I202.000-I202.000	141.64	70.85	Head 16
3	Helical	I205.000-S114.375	34.35	1175.83	Head 16
4	Helical	I49.500-S110.500	114.60	2304.55	Head 16
Total Exam DLP:				5855.78	

1/1

Pasien tanggal 21 Oktober 2013



Pasien tanggal 21 Oktober 2013

Patient Name: **Exam no: 2210**
 Accession Number: **21 Oct 2013**
 Patient ID: 71708 **LightSpeed VCT**
 Exam Description: CTA HEAD+NECK+C

Dose Report

Series	Type	Scan Range (mm)	CTDIvol (mGy)	DLP (mGy-cm)	Phantom cm
1	Scout	-	-	-	-
2	Helical	I207.000-S123.000	114.53	4250.30	Head 16
200	Axial	I187.000-I187.000	108.95	54.50	Head 16
3	Helical	I197.500-S118.750	32.70	1109.05	Head 16
4	Helical	I54.500-S120.500	112.97	2441.25	Head 16
Total Exam DLP:			7855.10		

1/1

W:1 L:-2

Ex: 2210 A 125
 S# 200
 SM I187.00
 In: 1
 21 Oct 2013

Ex: 2210 A 125
 S# 200
 SM I187.00
 In: 10+C
 21 Oct 2013

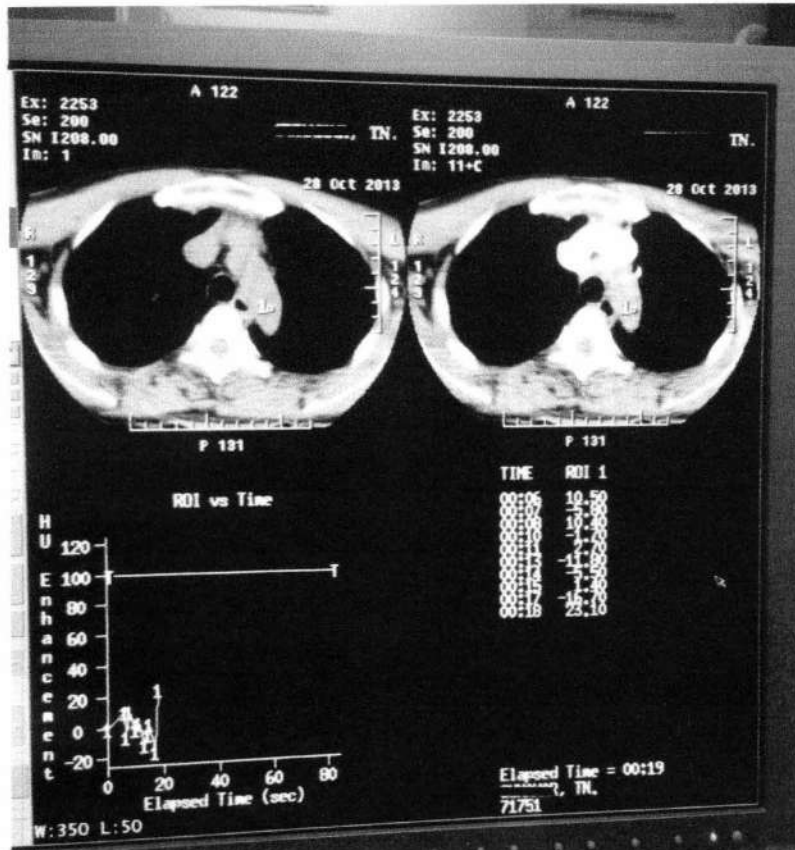
ROI vs Time

TIME	ROI 1	ROI 2
00:05	-15.40	1.20
00:06	1.20	1.20
00:07	-11.20	1.20
00:08	1.20	1.20
00:09	1.20	1.20
00:10	1.20	1.20
00:11	1.20	1.20
00:12	1.20	1.20
00:13	1.20	1.20
00:14	1.20	1.20
00:15	22.50	60.80
00:16	82.50	60.80

Elapsed Time = 00:17
 71708

W:350 L:50

Pasien tanggal 28 Oktober 2013



Patient Name: TN. Exam no: 2253
 Accession Number: 28 Oct 2013
 Patient ID: 71751 LightSpeed VCT
 Exam Description: CTA HEAD+NECK

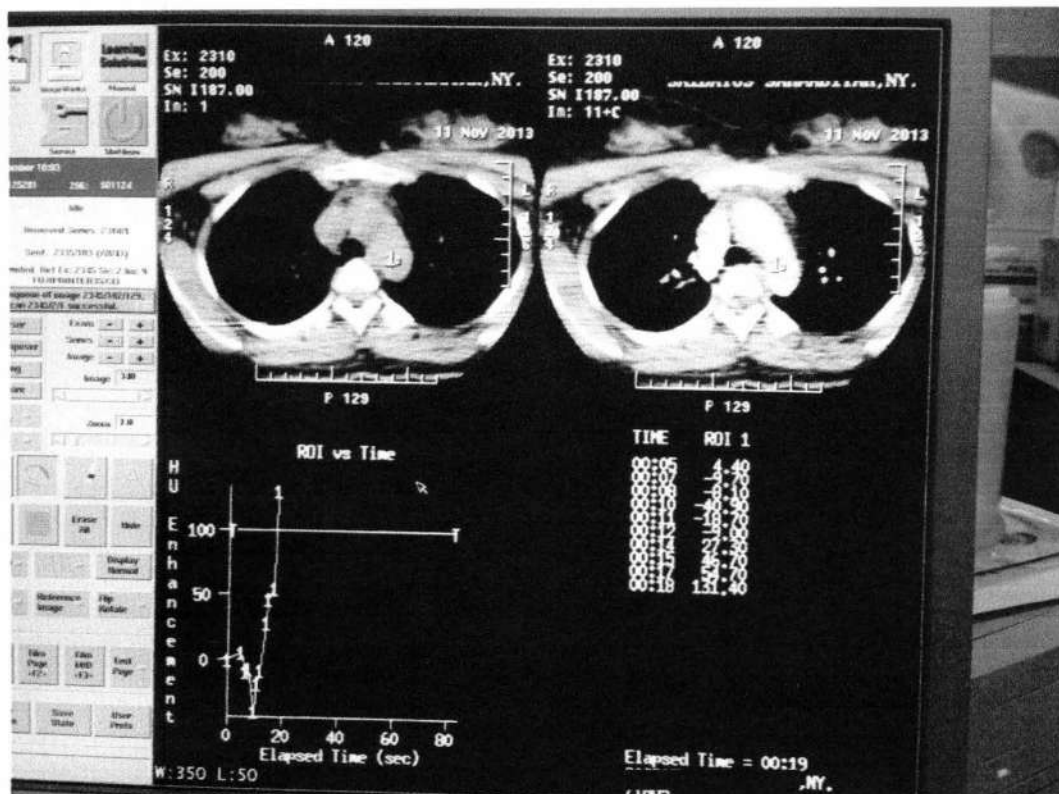
Dose Report

Series	Type	Scan Range (mm)	CTDIvol (mGy)	DLP (mGy-cm)	Phantom cm
1	Scout	-	-	-	-
2	Helical	I218.000-S102.000	113.97	4115.36	Head 16
200	Axial	I208.000-I208.000	119.85	59.95	Head 16
3	Helical	I216.000-S101.500	31.58	1074.86	Head 16
4	Helical	I218.000-S102.000	114.00	4116.56	Head 16
Total Exam DLP:				9366.73	

1/1

W:1 L:-2

Pasien tanggal 11 November 2013



Patient Name: _____, NY. Exam no: 2310
 Accession Number: _____ 11 Nov 2013
 Patient ID: 71805 LightSpeed VCT
 Exam Description: CTA HEAD+NECK

Dose Report

Series	Type	Scan Range (mm)	CTDIvol (mGy)	DLP (mGy-cm)	Phantom cm
1	Scout	-	-	-	-
2	Helical	I199.000-S126.000	115.13	4214.94	Head 16
200	Axial	I187.000-I187.000	119.85	59.95	Head 16
3	Helical	I198.000-S125.125	33.81	1169.85	Head 16
4	Helical	I39.250-S125.750	114.63	2362.53	Head 16
Total Exam DLP:			7807.27		

1/1

Pasien tanggal 18 November 2013

Patient Name: _____, Sdr
Accession Number: _____
Patient ID: 71842
Exam Description: CTA HEAD&NECK
Exam no: 2347
Date: 18 Nov 2013
LightSpeed VCT

Dose Report

Series	Type	Scan Range (mm)	CTDIvol (mGy)	DLP (mGy-cm)	Phantom cm
1	Scout	-	-	-	-
2	Helical	148.000-5127.000	110.55	2388.80	Head 16
200	Axial	1212.750-1212.750	119.85	59.95	Head 16
3	Helical	1226.000-5124.625	32.11	1199.49	Head 16
4	Helical	148.000-5127.000	110.58	2389.52	Head 16
Total Exam DLP:				6037.76	

1/1

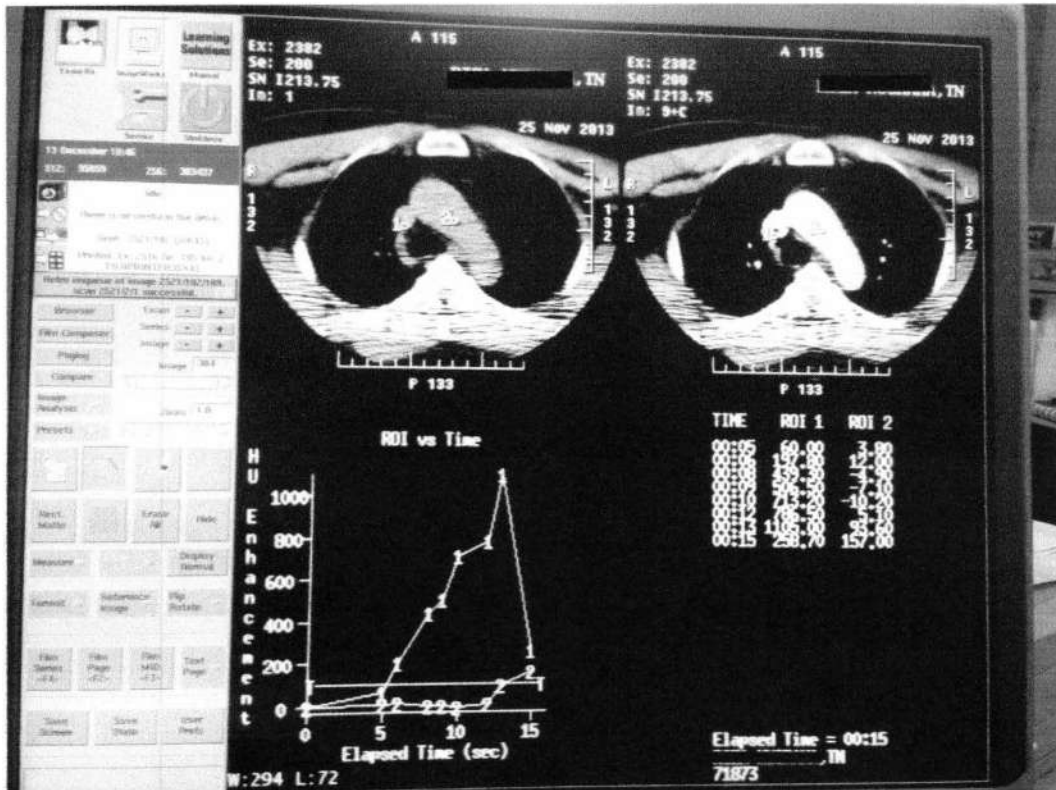
EX: 2347 **A 94** **EX: 2347** **A 94**
Se: 200 **Se: 200**
SN 1212.75 **SN 1212.75**
In: 1 **In: 11+C**
18 NOV 2013 **18 NOV 2013**

ROI vs Time
H U
E 1500
1000
500
0
0 20 40 60 80
Elapsed Time (sec)

TIME	ROI 1	ROI 2
00:05	92.50	-2.20
00:06	102.50	-2.20
00:07	112.50	-2.20
00:08	122.50	-2.20
00:09	132.50	-2.20
00:10	142.50	-2.20
00:11	152.50	-2.20
00:12	162.50	-2.20
00:13	172.50	-2.20
00:14	182.50	-2.20
00:15	192.50	-2.20
00:16	202.50	-2.20
00:17	212.50	-2.20
00:18	222.50	-2.20

Elapsed Time = 00:19
71842

Pasien tanggal 25 November 2013



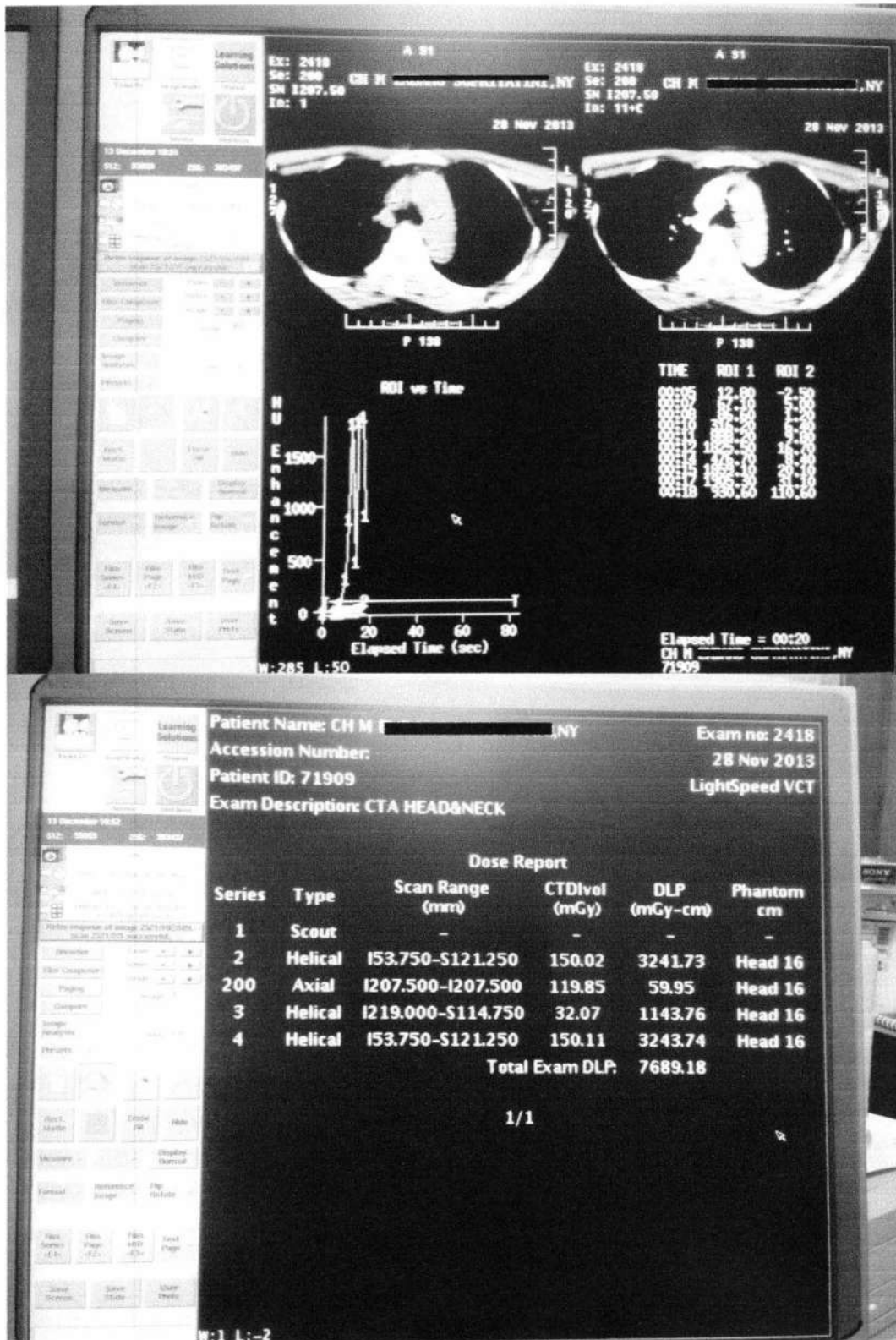
Patient Name: [redacted] TN
 Accession Number: [redacted]
 Patient ID: 71873
 Exam Description: CTA HEAD&NECK
 Exam no: 2382
 25 Nov 2013
 LightSpeed VCT

Dose Report

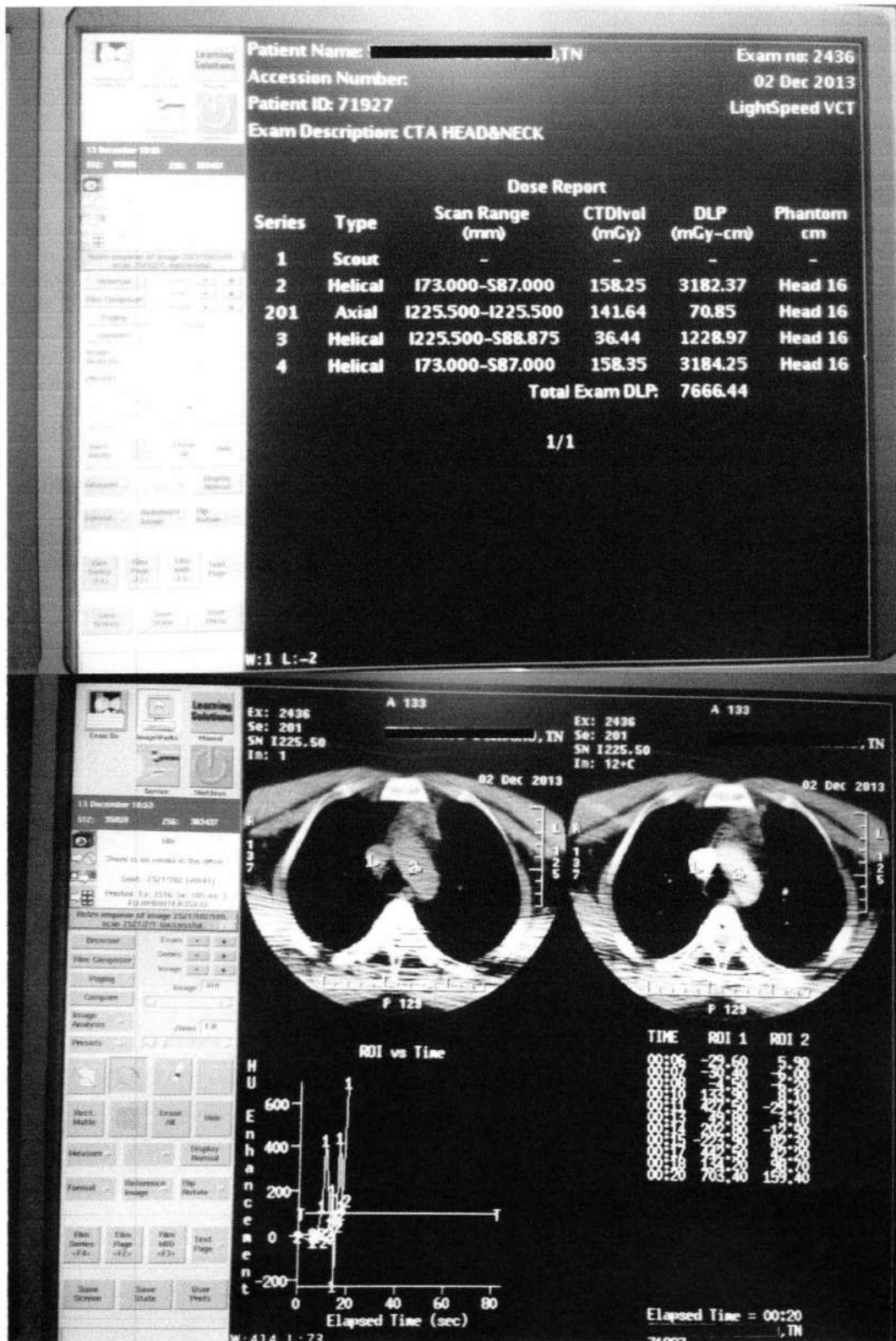
Series	Type	Scan Range (mm)	CTDIvol (mGy)	DLP (mGy-cm)	Phantom cm
1	Scout	-	-	-	-
2	Helical	171.250-5108.750	154.62	3418.61	Head 16
200	Axial	1213.750-1213.750	98.06	49.05	Head 16
3	Helical	1215.500-5108.250	34.25	1187.26	Head 16
4	Helical	171.250-5108.750	154.62	3418.61	Head 16
Total Exam DLP:				8073.53	

1/1

Pasien tanggal 28 November 2013



Pasien tanggal 28 November 2013



Pasien tanggal 18 Desember 2013

Patient Name: _____, TN
 Accession Number: _____
 Patient ID: 72033
 Exam Description: CTA HEAD&NECK

Exam no: 2547
 18 Dec 2013
 LightSpeed VCT

Dose Report

Series	Type	Scan Range (mm)	CTDIvol (mGy)	DLP (mGy-cm)	Phantom cm
1	Scout	-	-	-	-
2	Helical	167.000-588.000	112.87	2213.35	Head 16
200	Axial	1241.000-1241.000	98.06	49.05	Head 16
3	Helical	1246.500-587.250	31.99	1140.98	Head 16
4	Helical	167.000-588.000	112.91	2214.00	Head 16
Total Exam DLP:				5617.38	

1/1

EXI 2547 A 100
 S01 200
 SN 1201.00
 EI: 1
 18 Dec 2013

EXI 2547 A 100
 S01 200
 SN 1201.00
 EI: 9+C
 18 Dec 2013

ROI vs Time

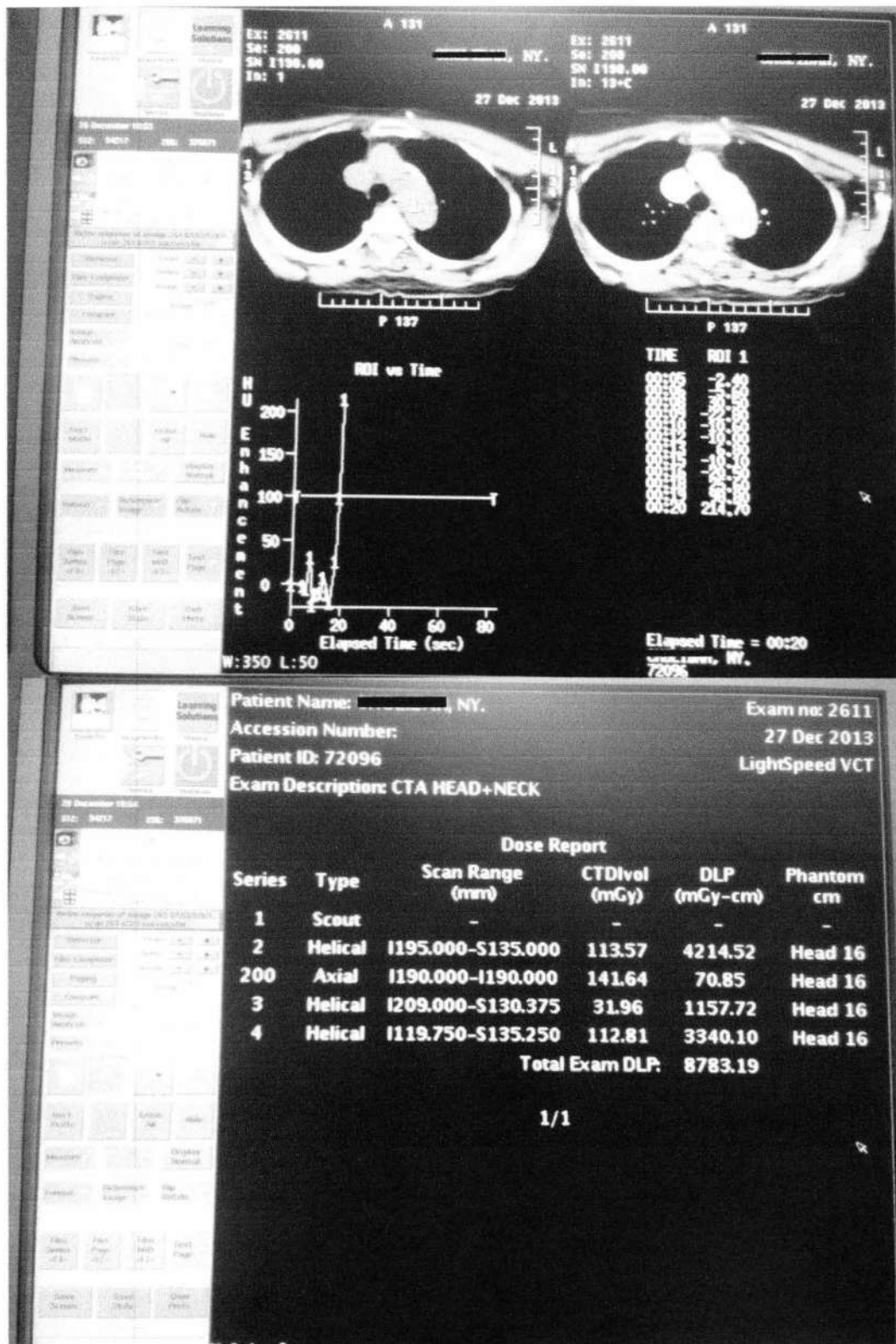
H
U
E
n
h
a
n
c
e
m
e
n
t

TIME	ROI 1	ROI 2
00:106	-0.30	-1.30
00:107	47.30	11.30
00:110	15.30	4.30
00:111	15.30	12.30
00:115	15.30	12.30

Elapsed Time = 00:17
 _____, TN
 72033

W: 347 L: 66

Pasien tanggal 27 Desember 2013



LAMPIRAN 2

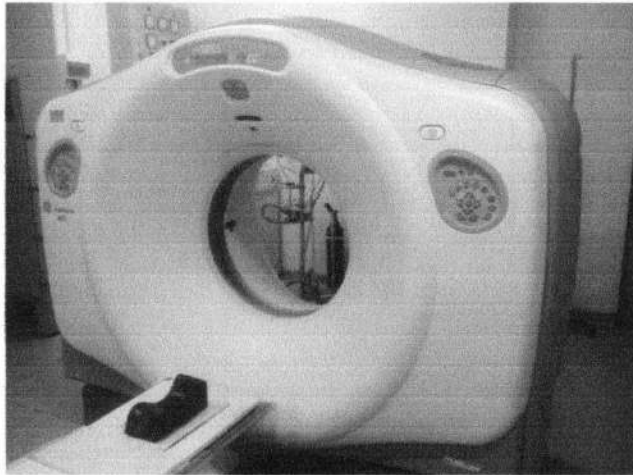
CONTOH HASIL CTA Kepala



LAMPIRAN 3

SPEKIFIKASI MSCT SCAN 64 SLICES

GE Lightspeed MSCT 64 Slices



- 64 x 912 Ceramic Detectors
- 0.63, 1.25, 2.5, 3.75, 5, 7.5, 10mm Slice Thickness
- Oil/Air Tube Cooling
- 60 sec. Max Scan Time
- 960 Scans/min Dynamic Scan Rate
- Two 19 Inch LCD Monitors
- 803 GB Hard Drive
- MX 240 8.0 MHU Tube
- Smart Prep
- Smart Tools
- Smart Helical
- Connect Pro
- AutoMA
- Direct MPR
- 3000 Image Series
- Direct 3D
- Data Export
- Copy Compose
- Exam Split
- VolumeViewer
- Noise Resduction Filter
- Neuro Filter

LAMPIRAN 4

BUKTI PENGAMBILAN DATA

SURAT KETERANGAN TELAH MELAKUKAN PENGAMBILAN DATA

Menerangkan bahwa mahasiswa yang tersebut dibawah ini :

Nama : Ervan Tricahyo Nugroho (011103004)
M. Haris (011103021)
Institusi : Program Studi D3 Radiologi Fakultas Kedokteran
Universitas Airlangga Surabaya

Benar-benar telah melakukan pengambilan data dalam rangka penulisan Tugas Akhir dengan judul “TEKNIK PEMERIKSAAN *COMPUTED TOMOGRAPHY ANGIOGRAPHY* KEPALA DENGAN MENGGUNAKAN *MANUAL MONITORING* UNTUK *BOLUS TRACKING* INJEKSI DI GRAHA AMERTA RSUD Dr. SOETOMO SURABAYA”