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LAMPIRAN 1

(*MATLAB Codes*)

Inline code untuk membersihkan *workspace* dan *command windows*

```
close all;
clear all;
clc;
```

Inline code untuk memasukkan citra

```
I=imread('Filename');
```

Inline code untuk merubah citra menjadi *double* presisi

```
I2=im2double(I);
```

Inline code untuk merubah citra berformat *RGB* menjadi *Grayscale*

```
Im=rgb2gray(I2);
Ima=rgb2gray(I);
```

Inline code Average Filter beserta menampilkannya dalam bentuk *figure*, dan *savefile*

```
K=1/9*ones(3,3)';
Average=conv2(Im,K,'same');
figure(1);imshow(Im),title('Original Image');
figure(2);imshow(Average),title('Average Filter');
imwrite(Average,'img-01101-00024 Average.png')
```

Inline code Gaussian Filter beserta menampilkannya dalam bentuk *figure*, dan *savefile*

```
Gaussian=imgaussfilt(Ima,0.75);
figure(3);imshow(Gaussian),title('Gaussian Filter');
imwrite(Gaussian,'img-01101-00024 Gaussian.png')
```

Inline code Median Filter beserta menampilkannya dalam bentuk *figure*, dan *savefile*

```
Median=medfilt2(Ima,[3,3]);
figure(4);imshow(Median),title('Median Filter');
imwrite(Median,'img-01101-00024 Median.png')
```

Inline code Bilateral Filter beserta menampilkannya dalam bentuk *figure*, dan *savefile*

```
Bilateral=imbilatfilt(Ima,NeighborhoodSize=3);
figure(5);imshow(Bilateral),title('Bilateral Filter');
imwrite(Bilateral,'img-01101-00024 Bilateral.png')
```

Inline code untuk mencari nilai *PSNR, MSE, RMSE, SSIM Average Filter* beserta menampilkan hasilnya di *command window*

```
PSNR=psnr(Im,Average);
MSE=immse(Im,Average);
RMSE=sqrt(MSE);
SSIM=ssim(Im,Average);
Average=[PSNR MSE RMSE SSIM]
```

Inline code untuk mencari nilai *PSNR, MSE, RMSE, SSIM Gaussian Filter* beserta menampilkan hasilnya di *command window*

```
PSNR=psnr(Ima,Gaussian);
MSEG=immse(Ima,Gaussian);
RMSE=sqrt(MSEG);
SSIM=ssim(Ima,Gaussian);
Gaussian=[PSNR MSEG RMSE SSIM]
```

Inline code untuk mencari nilai *PSNR, MSE, RMSE, SSIM Median Filter* beserta menampilkan hasilnya di *command window*

```
PSNR=psnr(Ima,Median);
MSEM=immse(Ima,Median);
RMSE=sqrt(MSEM);
SSIM=ssim(Ima,Median);
Median=[PSNR MSEM RMSE SSIM]
```

Inline code untuk mencari nilai *PSNR, MSE, RMSE, SSIM Bilateral Filter* beserta menampilkan hasilnya di *command window*

```
PSNR=psnr(Ima,Bilateral);
MSEB=immse(Ima,Bilateral);
RMSE=sqrt(MSEB);
SSIM=ssim(Ima,Bilateral);
Bilateral=[PSNR MSEB RMSE SSIM]
```

LAMPIRAN 2

(Kuesioner Dokter Spesialis Radiologi)

KUESIONER PENELITIAN

Pengantar

Berikut adalah kuesioner yang berkaitan dengan penelitian Tugas Akhir tentang **EVALUASI PENERAPAN DENOISING FILTER PADA CITRA CT SCAN OTAK PROTOKOL DOSE REDUCTION.** Oleh karena itu saya memohon dengan hormat kepada Dokter untuk bersedia meluangkan waktu untuk mengisi kuesioner ini, atas bantuannya saya mengucapkan banyak terima kasih.

Identitas Responden

Nama : Dr. Stefanus Erik Sp Rad

Pekerjaan : Radiolog

Instansi : Radiologi

Petunjuk Pengisian

1. Berilah tanda *checklist* (✓) pada kolom yang disediakan dan pilih jawaban sesuai dengan keadaan sebenarnya. Dengan alternatif jawaban:
   SS = Sangat Setuju
   S = Setuju
   KS = Kurang Setuju
   TS = Tidak Setuju
   STS = Sangat Tidak Setuju
2. Dalam menjawab pertanyaan berikut ini, usahakan agar tidak ada jawaban yang kosong karena akan mempengaruhi hasil akhir.

Pernyataan:
Citra dapat memperlihatkan kelainan dengan jelas

Dose Reduction	SS				S				KS				TS				STS			
	Filter				Filter				Filter				Filter				Filter			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
10%					✓	✓	✓	✓												
20%					✓	✓	✓	✓												
40%					✓	✓	✓	✓												
60%					✓	✓	✓	✓												

Pernyataan:
Citra dapat memperlihatkan batasan anatomi dengan jelas

Dose Reduction	SS				S				KS				TS				STS			
	Filter				Filter				Filter				Filter				Filter			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
10%							✓	✓		✓			✓							
20%							✓			✓		✓	✓							
40%							✓		✓	✓						✓				
60%							✓			✓		✓	✓							

Mengetahui,

( )

KUESIONER PENELITIAN

Pengantar

Berikut adalah kuesioner yang berkaitan dengan penelitian Tugas Akhir tentang **EVALUASI PENERAPAN DENOISING FILTER PADA CITRA CT SCAN OTAK PROTOKOL DOSE REDUCTION**. Oleh karena itu saya memohon dengan hormat kepada Dokter untuk bersedia meluangkan waktu untuk mengisi kuesioner ini, atas bantuannya saya mengucapkan banyak terima kasih.

Identitas Responden

Nama : Reno Setiawan

Pekerjaan : dokter radiologi

Instansi : RSAL Mintohardjo

Petunjuk Pengisian

1. Berilah tanda *checklist* (✓) pada kolom yang disediakan dan pilih jawaban sesuai dengan keadaan sebenarnya. Dengan alternatif jawaban:
   SS = Sangat Setuju
   S = Setuju
   KS = Kurang Setuju
   TS = Tidak Setuju
   STS = Sangat Tidak Setuju

2. Dalam menjawab pertanyaan berikut ini, usahakan agar tidak ada jawaban yang kosong karena akan mempengaruhi hasil akhir.

Pernyataan:
Citra dapat memperlihatkan kelainan dengan jelas

Dose Reduction	SS				S				KS				TS				STS			
	Filter				Filter				Filter				Filter				Filter			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
10%						✓	✓		✓			✓								
20%						✓	✓					✓	✓							
40%						✓	✓					✓	✓		✓					
60%					✓	✓					✓	✓								

Pernyataan:
Citra dapat memperlihatkan batasan anatomi dengan jelas

Dose Reduction	SS				S				KS				TS				STS			
	Filter				Filter				Filter				Filter				Filter			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
10%						✓	✓		✓			✓								
20%						✓	✓					✓	✓							
40%						✓	✓					✓	✓		✓					
60%						✓			✓		✓	✓								

Mengetahui,

dr. Rieke S, Sp.Rad
440/033.2/D.SP/SDK/2017
(dr. Rieke S, Sp.Rad)

KUESIONER PENELITIAN

Pengantar

Berikut adalah kuesioner yang berkaitan dengan penelitian Tugas Akhir tentang **EVALUASI PENERAPAN DENOISING FILTER PADA CITRA CT SCAN OTAK PROTOKOL DOSE REDUCTION.** Oleh karena itu saya memohon dengan hormat kepada Dokter untuk bersedia meluangkan waktu untuk mengisi kuesioner ini, atas bantuannya saya mengucapkan banyak terima kasih.

Identitas Responden

Nama : dr. Monika Indah SpRad

Pekerjaan : Radiologi

Instansi : RS Elisabeth Bekasi

Petunjuk Pengisian

1. Berilah tanda *checklist* (✓) pada kolom yang disediakan dan pilih jawaban sesuai dengan keadaan sebenarnya. Dengan alternatif jawaban:
   SS = Sangat Setuju
   S = Setuju
   KS = Kurang Setuju
   TS = Tidak Setuju
   STS = Sangat Tidak Setuju

2. Dalam menjawab pertanyaan berikut ini, usahakan agar tidak ada jawaban yang kosong karena akan mempengaruhi hasil akhir.

Pernyataan:
Citra dapat memperlihatkan kelainan dengan jelas

Dose Reduction	SS				S				KS				TS				STS			
	Filter				Filter				Filter				Filter				Filter			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
10%	✓		✓	✓		✓														
20%	✓		✓	✓		✓														
40%					✓	✓	✓	✓												
60%									✓	✓	✓	✓								

Pernyataan:
Citra dapat memperlihatkan batasan anatomi dengan jelas

Dose Reduction	SS				S				KS				TS				STS			
	Filter				Filter				Filter				Filter				Filter			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
10%	✓	✓	✓	✓																
20%	✓	✓	✓	✓																
40%					✓	✓	✓	✓												
60%									✓	✓	✓	✓								

Mengetahui,

dr. Monika Indah, Sp.R

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KUESIONER PENELITIAN

Pengantar

Berikut adalah kuesioner yang berkaitan dengan penelitian Tugas Akhir tentang **EVALUASI PENERAPAN DENOISING FILTER PADA CITRA CT SCAN OTAK PROTOKOL DOSE REDUCTION**. Oleh karena itu saya memohon dengan hormat kepada Dokter untuk bersedia meluangkan waktu untuk mengisi kuesioner ini, atas bantuannya saya mengucapkan banyak terima kasih.

Identitas Responden

Nama : dr. DIAN JAMAELA PUTRA, Sp.RAD.

Pekerjaan : Radiolog

Instansi : Radiologi

Petunjuk Pengisian

1. Berilah tanda *checklist* (✓) pada kolom yang disediakan dan pilih jawaban sesuai dengan keadaan sebenarnya. Dengan alternatif jawaban:
   SS = Sangat Setuju
   S = Setuju
   KS = Kurang Setuju
   TS = Tidak Setuju
   STS = Sangat Tidak Setuju

2. Dalam menjawab pertanyaan berikut ini, usahakan agar tidak ada jawaban yang kosong karena akan mempengaruhi hasil akhir.

Pernyataan:
Citra dapat memperlihatkan kelainan dengan jelas

Dose Reduction	SS				S				KS				TS				STS			
	Filter				Filter				Filter				Filter				Filter			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
10%				✓	✓	✓	✓													
20%			✓	✓	✓	✓														
40%			✓	✓	✓	✓														
60%			✓	✓	✓	✓														

Pernyataan:
Citra dapat memperlihatkan batasan anatomi dengan jelas

Dose Reduction	SS				S				KS				TS				STS			
	Filter				Filter				Filter				Filter				Filter			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
10%				✓	✓	✓	✓													
20%			✓	✓	✓	✓														
40%			✓	✓	✓	✓														
60%			✓	✓	✓	✓														

Mengetahui,

dr. Dian Jamaris Putra, Sp.Rad

KUESIONER PENELITIAN

Pengantar

Berikut adalah kuesioner yang berkaitan dengan penelitian Tugas Akhir tentang **EVALUASI PENERAPAN DENOISING FILTER PADA CITRA CT SCAN OTAK PROTOKOL DOSE REDUCTION.** Oleh karena itu saya memohon dengan hormat kepada Dokter untuk bersedia meluangkan waktu untuk mengisi kuesioner ini, atas bantuannya saya mengucapkan banyak terima kasih.

Identitas Responden

Nama : Dr Rutl. Dian U Sp Rad

Pekerjaan : Radiolog

Instansi : Radiologi

Petunjuk Pengisian

1. Berilah tanda *checklist* (✓) pada kolom yang disediakan dan pilih jawaban sesuai dengan keadaan sebenarnya. Dengan alternatif jawaban:
   SS = Sangat Setuju
   S = Setuju
   KS = Kurang Setuju
   TS = Tidak Setuju
   STS = Sangat Tidak Setuju

2. Dalam menjawab pertanyaan berikut ini, usahakan agar tidak ada jawaban yang kosong karena akan mempengaruhi hasil akhir.

Pernyataan: Citra dapat memperlihatkan kelainan dengan jelas																				
Dose Reduction	SS				S				KS				TS				STS			
	Filter				Filter				Filter				Filter				Filter			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
10%	✓	✓	✓	✓																
20%	✓	✓	✓	✓																
40%	✓	✓	✓	✓																
60%	✓	✓	✓	✓																

Pernyataan: Citra dapat memperlihatkan batasan anatomi dengan jelas																				
Dose Reduction	SS				S				KS				TS				STS			
	Filter				Filter				Filter				Filter				Filter			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
10%	✓	✓	✓	✓																
20%	✓	✓	✓	✓																
40%	✓	✓	✓	✓																
60%	✓	✓	✓	✓																

Mengetahui,

dr. Rully Dian V, SpRad

LAMPIRAN 3

(Uji Validitas)

Correlations Average Filter

		A1	A2	A3	A4	A5	A6	A7	A8	A
A1	Pearson Correlation	1	.976**	.873	.000	.733	.867	.891*	.419	.900*
	Sig. (2-tailed)		.004	.053	1.000	.159	.057	.042	.482	.037
	N	5	5	5	5	5	5	5	5	5
A2	Pearson Correlation	.976**	1	.932*	.000	.626	.808	.895*	.358	.871
	Sig. (2-tailed)	.004		.021	1.000	.258	.098	.040	.554	.055
	N	5	5	5	5	5	5	5	5	5
A3	Pearson Correlation	.873	.932*	1	.323	.490	.692	.921*	.480	.864
	Sig. (2-tailed)	.053	.021		.596	.402	.195	.026	.413	.059
	N	5	5	5	5	5	5	5	5	5
A4	Pearson Correlation	.000	.000	.323	1	.000	.000	.310	.620	.283
	Sig. (2-tailed)	1.000	1.000	.596		1.000	1.000	.612	.264	.645
	N	5	5	5	5	5	5	5	5	5
A5	Pearson Correlation	.733	.626	.490	.000	1	.961**	.774	.740	.854
	Sig. (2-tailed)	.159	.258	.402	1.000		.009	.125	.153	.066
	N	5	5	5	5	5	5	5	5	5
A6	Pearson Correlation	.867	.808	.692	.000	.961**	1	.896*	.694	.940*
	Sig. (2-tailed)	.057	.098	.195	1.000	.009		.039	.194	.017
	N	5	5	5	5	5	5	5	5	5
A7	Pearson Correlation	.891*	.895*	.921*	.310	.774	.896*	1	.731	.988**
	Sig. (2-tailed)	.042	.040	.026	.612	.125	.039		.161	.002
	N	5	5	5	5	5	5	5	5	5
A8	Pearson Correlation	.419	.358	.480	.620	.740	.694	.731	1	.766
	Sig. (2-tailed)	.482	.554	.413	.264	.153	.194	.161		.131
	N	5	5	5	5	5	5	5	5	5
A	Pearson Correlation	.900*	.871	.864	.283	.854	.940*	.988**	.766	1
	Sig. (2-tailed)	.037	.055	.059	.645	.066	.017	.002	.131	
	N	5	5	5	5	5	5	5	5	5

**. Correlation is significant at the 0.01 level (2-tailed).

*. Correlation is significant at the 0.05 level (2-tailed).

Correlations Gaussian Filter

		G1	G2	G3	G4	G5	G6	G7	G8	G
G1	Pearson Correlation	1	1.000**	1.000**	.791	.535	.535	.791	.802	.919*
	Sig. (2-tailed)		.000	.000	.111	.353	.353	.111	.103	.028
	N	5	5	5	5	5	5	5	5	5
G2	Pearson Correlation	1.000**	1	1.000**	.791	.535	.535	.791	.802	.919*
	Sig. (2-tailed)	.000		.000	.111	.353	.353	.111	.103	.028
	N	5	5	5	5	5	5	5	5	5
G3	Pearson Correlation	1.000**	1.000**	1	.791	.535	.535	.791	.802	.919*
	Sig. (2-tailed)	.000	.000		.111	.353	.353	.111	.103	.028
	N	5	5	5	5	5	5	5	5	5
G4	Pearson Correlation	.791	.791	.791	1	.000	.000	.500	.845	.645
	Sig. (2-tailed)	.111	.111	.111		1.000	1.000	.391	.071	.239
	N	5	5	5	5	5	5	5	5	5
G5	Pearson Correlation	.535	.535	.535	.000	1	1.000**	.845	.429	.764
	Sig. (2-tailed)	.353	.353	.353	1.000		.000	.071	.472	.133
	N	5	5	5	5	5	5	5	5	5
G6	Pearson Correlation	.535	.535	.535	.000	1.000**	1	.845	.429	.764
	Sig. (2-tailed)	.353	.353	.353	1.000	.000		.071	.472	.133
	N	5	5	5	5	5	5	5	5	5
G7	Pearson Correlation	.791	.791	.791	.500	.845	.845	1	.845	.968**
	Sig. (2-tailed)	.111	.111	.111	.391	.071	.071		.071	.007
	N	5	5	5	5	5	5	5	5	5
G8	Pearson Correlation	.802	.802	.802	.845	.429	.429	.845	1	.873
	Sig. (2-tailed)	.103	.103	.103	.071	.472	.472	.071		.053
	N	5	5	5	5	5	5	5	5	5
G	Pearson Correlation	.919*	.919*	.919*	.645	.764	.764	.968**	.873	1
	Sig. (2-tailed)	.028	.028	.028	.239	.133	.133	.007	.053	
	N	5	5	5	5	5	5	5	5	5

**. Correlation is significant at the 0.01 level (2-tailed).

*. Correlation is significant at the 0.05 level (2-tailed).

Correlations Median Filter

		M1	M2	M3	M4	M5	M6	M7	M8	M
M1	Pearson Correlation	1	.667	.167	.000	1.000**	.667	.167	.000	.484
	Sig. (2-tailed)		.219	.789	1.000	.000	.219	.789	1.000	.408
	N	5	5	5	5	5	5	5	5	5
M2	Pearson Correlation	.667	1	.667	.456	.667	1.000**	.667	.456	.836
	Sig. (2-tailed)	.219		.219	.440	.219	.000	.219	.440	.077
	N	5	5	5	5	5	5	5	5	5
M3	Pearson Correlation	.167	.667	1	.913*	.167	.667	1.000**	.913*	.924*
	Sig. (2-tailed)	.789	.219		.030	.789	.219	.000	.030	.025
	N	5	5	5	5	5	5	5	5	5
M4	Pearson Correlation	.000	.456	.913*	1	.000	.456	.913*	1.000**	.844
	Sig. (2-tailed)	1.000	.440	.030		1.000	.440	.030	.000	.072
	N	5	5	5	5	5	5	5	5	5
M5	Pearson Correlation	1.000**	.667	.167	.000	1	.667	.167	.000	.484
	Sig. (2-tailed)	.000	.219	.789	1.000		.219	.789	1.000	.408
	N	5	5	5	5	5	5	5	5	5
M6	Pearson Correlation	.667	1.000**	.667	.456	.667	1	.667	.456	.836
	Sig. (2-tailed)	.219	.000	.219	.440	.219		.219	.440	.077
	N	5	5	5	5	5	5	5	5	5
M7	Pearson Correlation	.167	.667	1.000**	.913*	.167	.667	1	.913*	.924*
	Sig. (2-tailed)	.789	.219	.000	.030	.789	.219		.030	.025
	N	5	5	5	5	5	5	5	5	5
M8	Pearson Correlation	.000	.456	.913*	1.000**	.000	.456	.913*	1	.844
	Sig. (2-tailed)	1.000	.440	.030	.000	1.000	.440	.030		.072
	N	5	5	5	5	5	5	5	5	5
M	Pearson Correlation	.484	.836	.924*	.844	.484	.836	.924*	.844	1
	Sig. (2-tailed)	.408	.077	.025	.072	.408	.077	.025	.072	
	N	5	5	5	5	5	5	5	5	5

**. Correlation is significant at the 0.01 level (2-tailed).

*. Correlation is significant at the 0.05 level (2-tailed).

Correlations Bilateral Filter

		B1	B2	B3	B4	B5	B6	B7	B8	B
B1	Pearson Correlation	1	1.000**	.869	.559	1.000**	.919*	.729	.612	.922*
	Sig. (2-tailed)		.000	.056	.327	.000	.028	.162	.272	.026
	N	5	5	5	5	5	5	5	5	5
B2	Pearson Correlation	1.000**	1	.869	.559	1.000**	.919*	.729	.612	.922*
	Sig. (2-tailed)	.000		.056	.327	.000	.028	.162	.272	.026
	N	5	5	5	5	5	5	5	5	5
B3	Pearson Correlation	.869	.869	1	.896*	.869	.764	.733	.873	.952*
	Sig. (2-tailed)	.056	.056		.039	.056	.133	.159	.053	.012
	N	5	5	5	5	5	5	5	5	5
B4	Pearson Correlation	.559	.559	.896*	1	.559	.456	.575	.913*	.769
	Sig. (2-tailed)	.327	.327	.039		.327	.440	.310	.030	.129
	N	5	5	5	5	5	5	5	5	5
B5	Pearson Correlation	1.000**	1.000**	.869	.559	1	.919*	.729	.612	.922*
	Sig. (2-tailed)	.000	.000	.056	.327		.028	.162	.272	.026
	N	5	5	5	5	5	5	5	5	5
B6	Pearson Correlation	.919*	.919*	.764	.456	.919*	1	.910*	.667	.919*
	Sig. (2-tailed)	.028	.028	.133	.440	.028		.032	.219	.028
	N	5	5	5	5	5	5	5	5	5
B7	Pearson Correlation	.729	.729	.733	.575	.729	.910*	1	.840	.890*
	Sig. (2-tailed)	.162	.162	.159	.310	.162	.032		.075	.043
	N	5	5	5	5	5	5	5	5	5
B8	Pearson Correlation	.612	.612	.873	.913*	.612	.667	.840	1	.868
	Sig. (2-tailed)	.272	.272	.053	.030	.272	.219	.075		.057
	N	5	5	5	5	5	5	5	5	5
B	Pearson Correlation	.922*	.922*	.952*	.769	.922*	.919*	.890*	.868	1
	Sig. (2-tailed)	.026	.026	.012	.129	.026	.028	.043	.057	
	N	5	5	5	5	5	5	5	5	5

**. Correlation is significant at the 0.01 level (2-tailed).

*. Correlation is significant at the 0.05 level (2-tailed).

Uji Validitas *Average Filter*

Pertanyaan	Responden					R Tabel	R Hitung	Keterangan
	1	2	3	4	5			
P1 10%	5	4	5	3	4	0,8054	0,9000	Valid
P1 20%	5	4	5	2	4	0,8054	0,8710	Valid
P1 40%	4	4	5	2	4	0,8054	0,8640	Valid
P1 60%	3	4	5	4	4	0,8054	0,2830	Tidak Valid
P2 10%	5	4	5	3	2	0,8054	0,8540	Valid
P2 20%	5	4	5	2	2	0,8054	0,9400	Valid
P2 40%	4	4	5	2	3	0,8054	0,9880	Valid
P2 60%	3	4	5	3	2	0,8054	0,7660	Tidak Valid

Uji Validitas *Gaussian Filter*

Pertanyaan	Responden					R Tabel	R Hitung	Keterangan
	1	2	3	4	5			
P1 10%	4	4	5	4	4	0,8054	0,9190	Valid
P1 20%	4	4	5	4	4	0,8054	0,9190	Valid
P1 40%	4	4	5	4	4	0,8054	0,9190	Valid
P1 60%	3	4	5	4	4	0,8054	0,6450	Tidak Valid
P2 10%	5	4	5	4	3	0,8054	0,7640	Tidak Valid
P2 20%	5	4	5	4	3	0,8054	0,7640	Tidak Valid
P2 40%	4	4	5	4	3	0,8054	0,9680	Valid
P2 60%	3	4	5	4	3	0,8054	0,8730	Valid

Uji Validitas *Median Filter*

Pertanyaan	Responden					R Tabel	R Hitung	Keterangan
	1	2	3	4	5			
P1 10%	5	4	5	4	4	0,8054	0,4840	Tidak Valid
P1 20%	5	5	5	4	4	0,8054	0,8360	Valid
P1 40%	4	5	5	4	4	0,8054	0,9240	Valid
P1 60%	3	5	5	3	4	0,8054	0,8440	Valid
P2 10%	5	4	5	4	4	0,8054	0,4840	Tidak Valid
P2 20%	5	5	5	4	4	0,8054	0,8360	Valid
P2 40%	4	5	5	4	4	0,8054	0,9240	Valid
P2 60%	3	5	5	3	4	0,8054	0,8440	Valid

Uji Validitas *Bilateral Filter*

Pertanyaan	Responden					R Tabel	R Hitung	Keterangan
	1	2	3	4	5			
P1 10%	5	5	5	3	4	0,8054	0,9220	Valid
P1 20%	5	5	5	3	4	0,8054	0,9220	Valid
P1 40%	4	5	5	3	4	0,8054	0,9520	Valid
P1 60%	3	5	5	3	4	0,8054	0,7690	Tidak Valid
P2 10%	5	5	5	3	4	0,8054	0,9220	Valid
P2 20%	5	5	5	3	3	0,8054	0,9190	Valid
P2 40%	4	5	5	3	2	0,8054	0,8900	Valid
P2 60%	3	5	5	3	3	0,8054	0,8680	Valid

LAMPIRAN 4

(Uji Reliabilitas)

Reliability Statistics
Average Filter

Cronbach's Alpha	N of Items
.930	8

Reliability Statistics
Gaussian Filter

Cronbach's Alpha	N of Items
.923	8

Reliability Statistics
Median Filter

Cronbach's Alpha	N of Items
.890	8

Reliability Statistics
Bilateral Filter

Cronbach's Alpha	N of Items
.960	8

LAMPIRAN 5

(*CTDIvol* dan *DLP* yang diterima oleh Subjek Penelitian)

Dose Reduction 10%

Helical	I132.000-S98.000	26.31	662.20	Head 16
Helical	I77.235-S107.765	26.77	553.26	Head 16
Axial	I89.228-S15.773	54.78	602.59	Head 16
Helical	I68.730-S91.270	29.51	536.21	Head 16
Helical	I78.710-S121.290	27.18	602.57	Head 16

Dose Reduction 20%

Helical	I71.645-S108.355	26.97	544.04	Head 16
Helical	I71.120-S123.880	25.10	543.90	Head 16
Helical	I113.875-S131.125	23.61	629.65	Head 16
Helical	I92.245-S92.755	26.83	554.48	Head 16
Helical	I95.105-S94.895	26.66	564.46	Head 16

Dose Reduction 40%

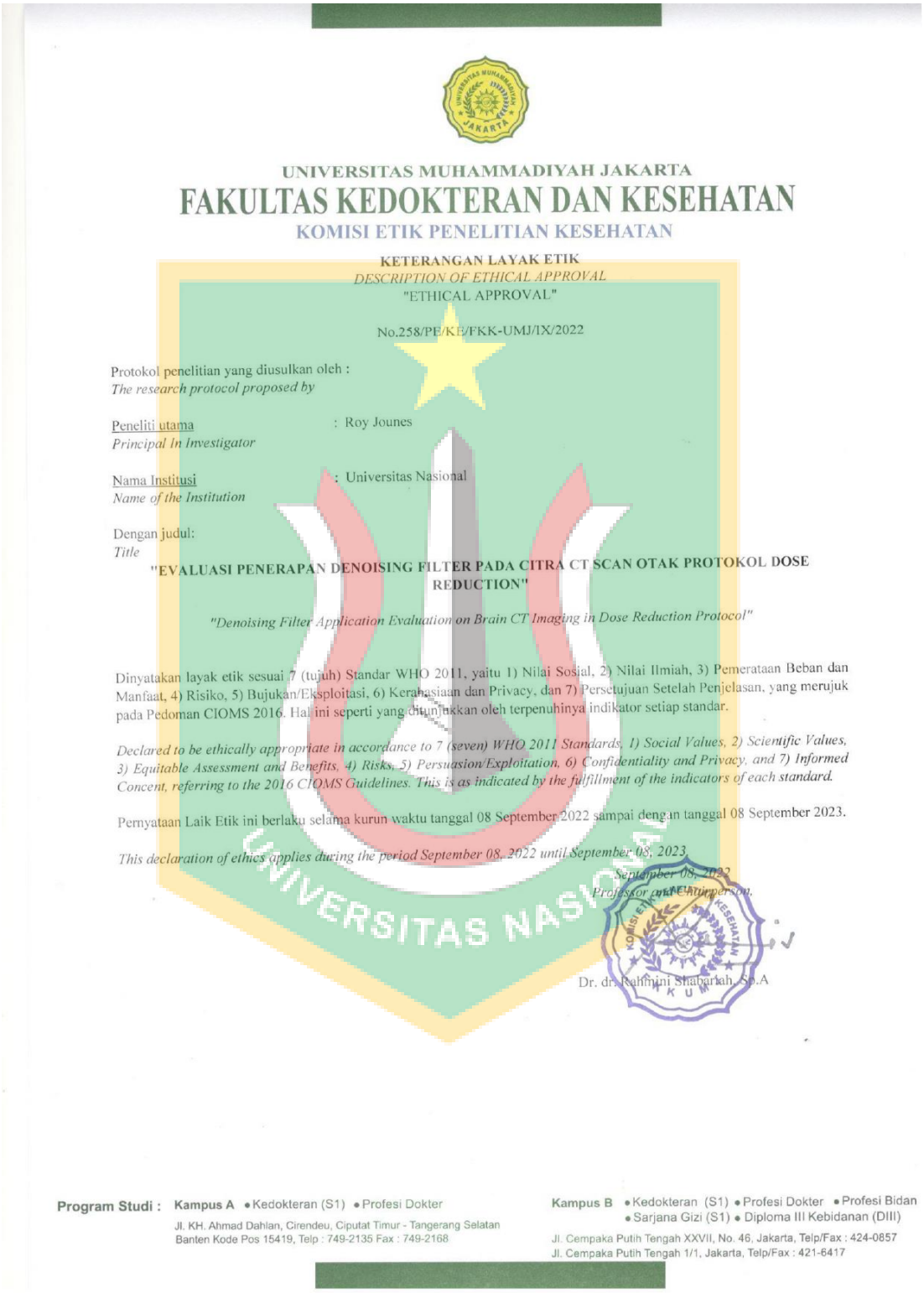
Helical	I65.000-S95.000	15.49	281.51	Head 16
Helical	I72.685-S107.315	17.71	357.14	Head 16
Helical	I70.095-S109.905	17.71	357.14	Head 16
Helical	I78.035-S96.965	17.71	348.29	Head 16
Helical	I68.730-S91.270	17.71	321.73	Head 16

Dose Reduction 60%

Helical	I65.000-S95.000	11.07	201.08	Head 16
Helical	I70.095-S109.905	11.80	238.09	Head 16
Helical	I72.685-S107.315	11.80	238.09	Head 16
Helical	I78.035-S96.965	11.80	232.19	Head 16
Helical	I68.730-S91.270	11.80	214.48	Head 16

LAMPIRAN 6

(Ethical Clearance)



UNIVERSITAS MUHAMMADIYAH JAKARTA

FAKULTAS KEDOKTERAN DAN KESEHATAN

KOMISI ETIK PENELITIAN KESEHATAN

KETERANGAN LAYAK ETIK

DESCRIPTION OF ETHICAL APPROVAL

"ETHICAL APPROVAL"

No.258/PE/KE/FKK-UMJ/IX/2022

Protokol penelitian yang diusulkan oleh :
The research protocol proposed by

Peneliti utama : Roy Jounes
Principal In Investigator

Nama Institusi : Universitas Nasional
Name of the Institution

Dengan judul:
Title

"EVALUASI PENERAPAN DENOISING FILTER PADA CITRA CT SCAN OTAK PROTOKOL DOSE REDUCTION"

"Denoising Filter Application Evaluation on Brain CT Imaging in Dose Reduction Protocol"

Dinyatakan layak etik sesuai 7 (tujuh) Standar WHO 2011, yaitu 1) Nilai Sosial, 2) Nilai Ilmiah, 3) Pemerataan Beban dan Manfaat, 4) Risiko, 5) Bujukan/Eksploitasi, 6) Kerahasiaan dan Privacy, dan 7) Persetujuan Setelah Penjelasan, yang merujuk pada Pedoman CIOMS 2016. Hal ini seperti yang ditunjukkan oleh terpenuhinya indikator setiap standar.

Declared to be ethically appropriate in accordance to 7 (seven) WHO 2011 Standards, 1) Social Values, 2) Scientific Values, 3) Equitable Assessment and Benefits, 4) Risks, 5) Persuasion/Exploitation, 6) Confidentiality and Privacy, and 7) Informed Concent, referring to the 2016 CIOMS Guidelines. This is as indicated by the fulfillment of the indicators of each standard.

Pernyataan Laik Etik ini berlaku selama kurun waktu tanggal 08 September 2022 sampai dengan tanggal 08 September 2023.

This declaration of ethics applies during the period September 08, 2022 until September 08, 2023.

September 08, 2022
Professor and Chairperson,

Dr. dr. Rahmini Shabarkah, Sp.A

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