

DAFTAR PUSTAKA

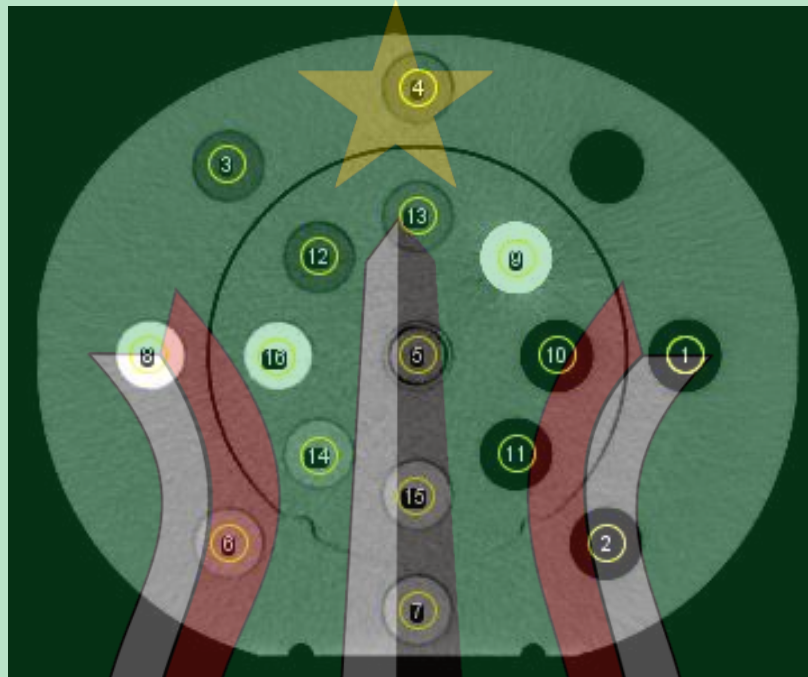
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LAMPIRAN

Lampiran 1 Pengukuran Nilai *CT Number*

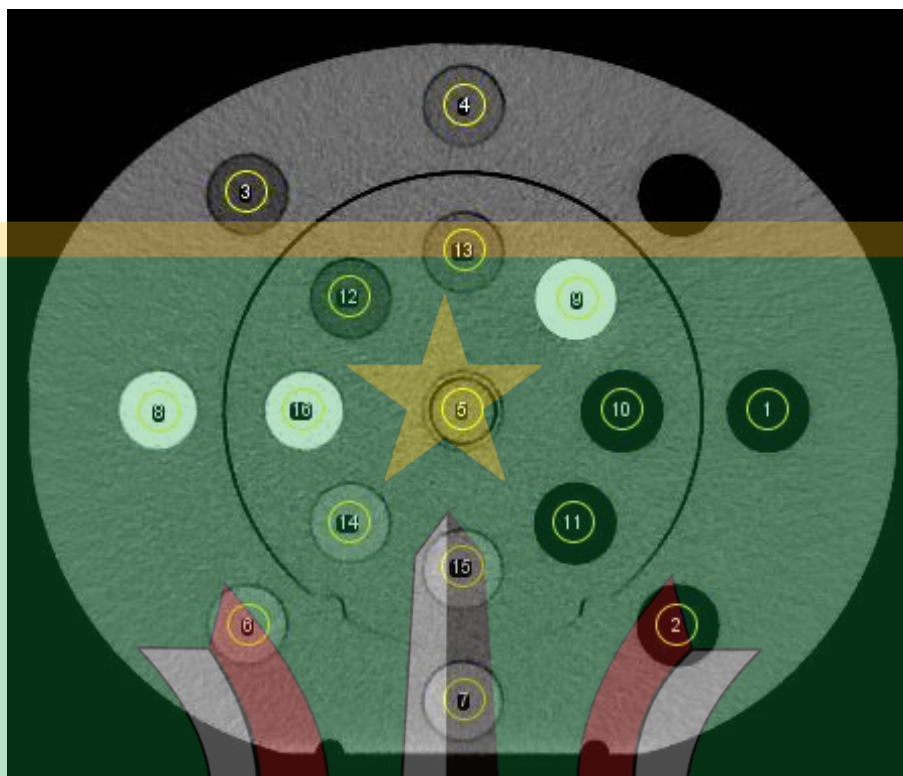
1. Metode *Helical Scanning*



Hasil Gambar *ImageJ Filter Smooth*

Hasil Pengukuran Nilai *CT number Filter Smooth*

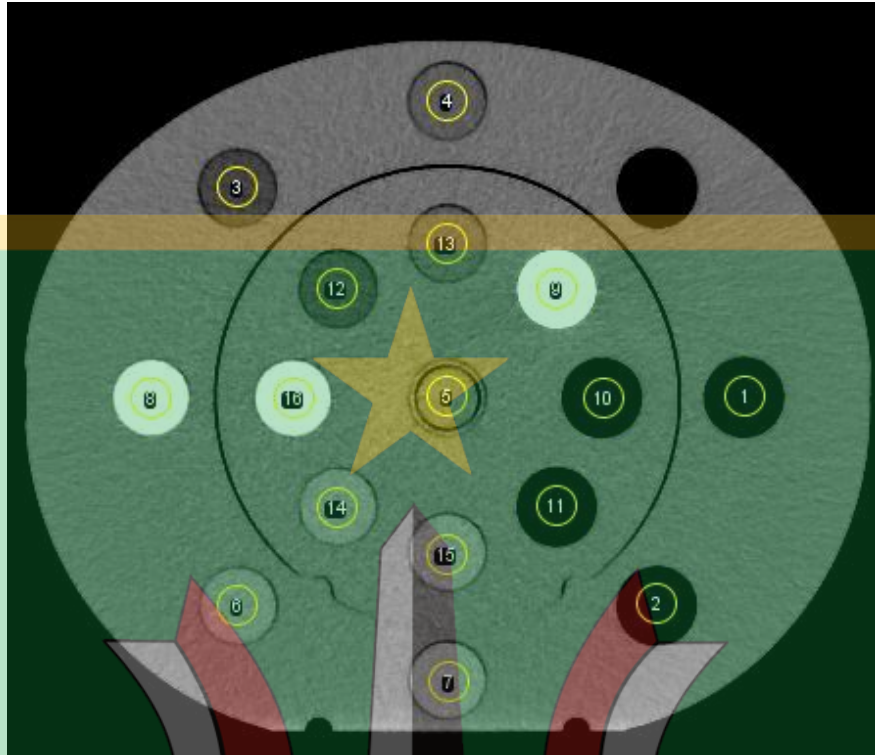
	Jaringan	Area	Mean	
			Bagian Luar	Bagian Dalam
1	Lung (inhale)	195.304	-803.212	-805.712
2	Lung (Exhale)	195.304	-487.510	-492.087
3	Adipose	195.304	-58.505	-56.832
4	Breast	195.304	-20.861	-19.130
5	Water	195.304	-	4.019
6	Muscle	195.304	55.255	53.505
7	Liver	195.304	66.976	61.500
8	Bone (200)	195.304	245.490	238.697
9	Bone (800)	195.304	-	920.690
10	Bone (1250)	195.304	-	1431.995



Hasil Gambar *ImageJ* Filter Sharp

Hasil Pengukuran Nilai *CT number* Filter Sharp

		Area	Mean	
			Bagian Luar	Bagian Dalam
1	Lung (inhale)	183.965	-805.022	-809.237
2	Lung (Exhale)	183.965	-489.677	-491.285
3	Adipose	183.965	-60.794	-59.813
4	Breast	183.965	-23.665	-22.462
5	Water	183.965	-	1.146
6	Muscle	183.965	55.000	53.133
7	Liver	183.965	64.351	60.130
8	Bone (200)	183.965	242.753	239.304
9	Bone (800)	183.965	-	912.570
10	Bone (1250)	183.965	-	1433.101

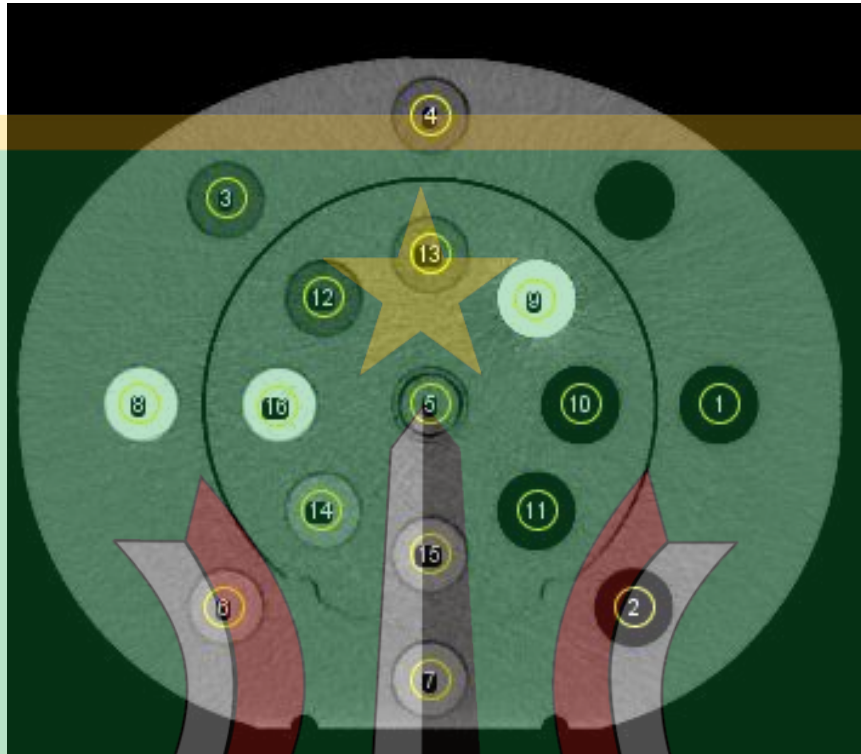


Hasil Gambar *ImageJ* Filter *Standard*

Hasil Pengukuran Nilai *CT number* Filter *Standard*

			Mean	
Jaringan		Area	Bagian Luar	Bagian Dalam
1	Lung (inhale)	183.002	-804.054	-811.152
2	Lung (Exhale)	183.002	-488.623	-492.351
3	Adipose	183.002	-57.241	-55.896
4	Breast	183.002	-19.443	-18.785
5	Water	183.002	-	4.823
6	Muscle	183.002	59.987	57.329
7	Liver	183.002	68.241	65.478
8	Bone (200)	183.002	259.174	261.453
9	Bone (800)	183.002	-	958.722
10	Bone (1250)	183.002	-	1446.155

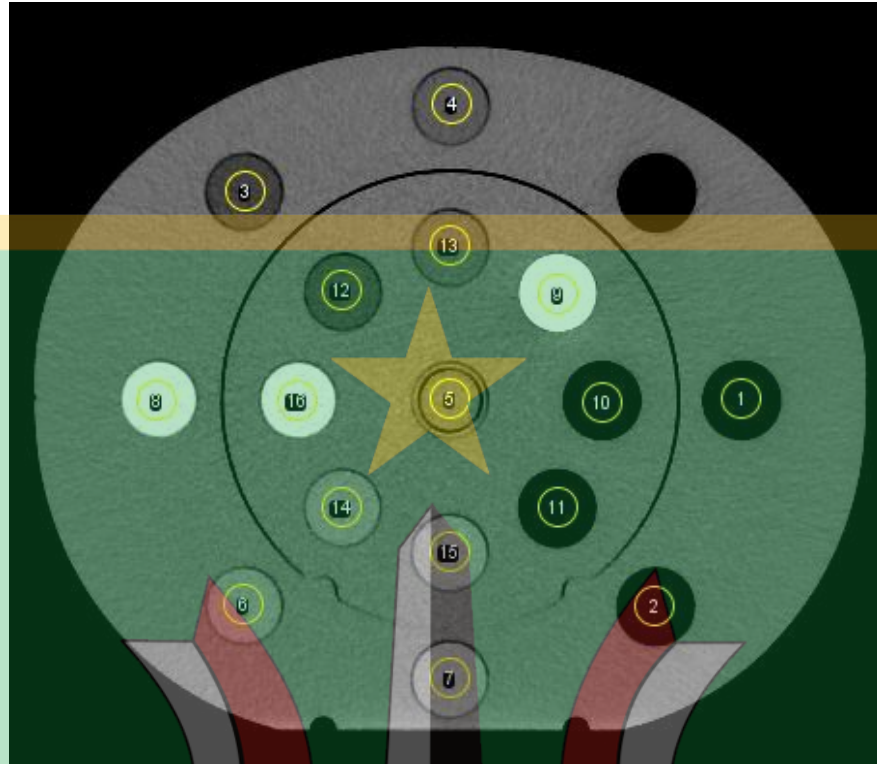
2. Metode Axial Scanning



Hasil Gambar *ImageJ* Filter Smooth

Hasil Pengukuran Nilai *CT number* Filter Smooth

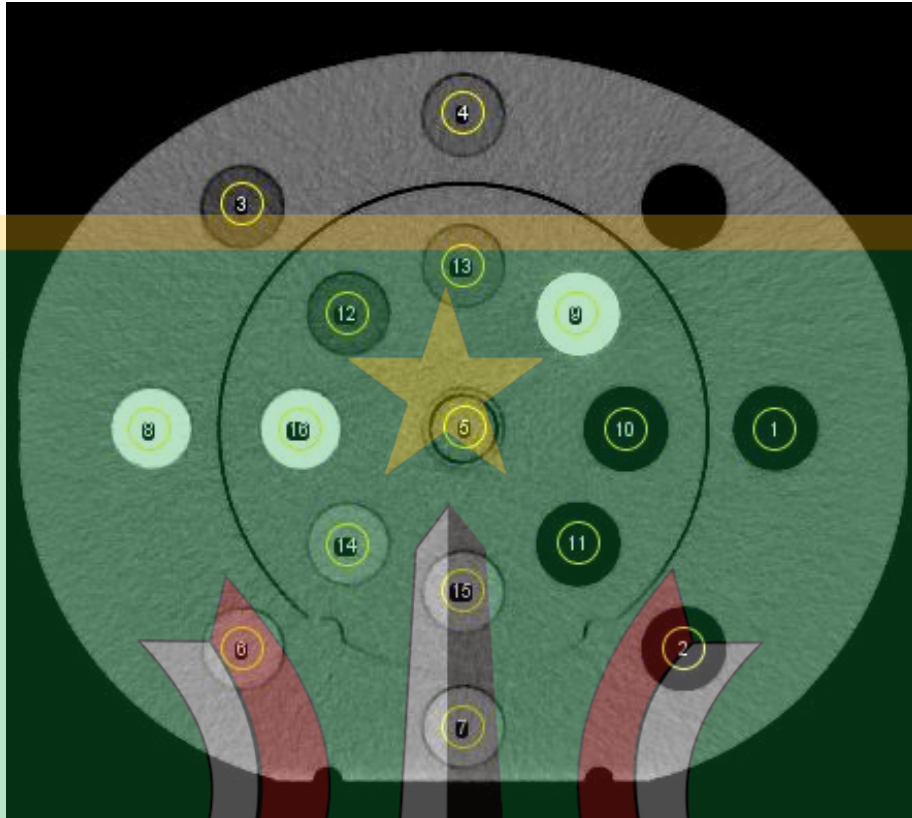
Jaringan		Area	Mean	
			Bagian Luar	Bagian Dalam
1	Lung (inhale)	195.304	-803.226	-805.812
2	Lung (Exhale)	195.304	-488.692	-490.812
3	Adipose	195.304	-58.505	-56.822
4	Breast	195.304	-20.221	-19.899
5	Water	195.304	-	1.514
6	Muscle	195.304	54.947	53.510
7	Liver	195.304	66.558	61.986
8	Bone (200)	195.304	244.788	239.096
9	Bone (800)	195.304	-	913.750
10	Bone (1250)	195.304	-	1431.856



Hasil Gambar *ImageJ* Filter *Sharp*

Hasil Pengukuran Nilai *CT number* Filter *Sharp*

Jaringan		Area	Mean	
			Bagian Luar	Bagian Dalam
1	Lung (inhale)	183.956	-805.095	-809.541
2	Lung (Exhale)	183.956	-491.111	-492.778
3	Adipose	183.956	-60.418	-59.975
4	Breast	183.956	-21.924	-21.487
5	Water	183.956	-	-0.351
6	Muscle	183.956	55.199	51.839
7	Liver	183.956	65.636	59.215
8	Bone (200)	183.956	243.608	237.981
9	Bone (800)	183.956	-	913.212
10	Bone (1250)	183.956	-	1427.365



Hasil Gambar *ImageJ* Filter *Standard*

Hasil Pengukuran Nilai *CT number* Filter *Standard*

Jaringan		Area	Mean	
			Bagian Luar	Bagian Dalam
1	Lung (inhale)	183.002	-803.725	-811.532
2	Lung (Exhale)	183.002	-488.307	-493.826
3	Adipose	183.002	-57.652	-57.655
4	Breast	183.002	-19.820	-18.918
5	Water	183.002	-	2.918
6	Muscle	183.002	57.604	55.829
7	Liver	183.002	69.133	65.203
8	Bone (200)	183.002	260.747	260.975
9	Bone (800)	183.002	-	959.358
10	Bone (1250)	183.002	-	1446.424

Lampiran 2 Uji Statistik

1. Uji Normalitas

a. Metode *Helical Scanning*

- Jaringan bagian Luar

Tests of Normality							
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Filter	Statistic	df	Sig.	Statistic	df	Sig.
CT Number	Filter Smooth	.305	7	.047	.865	7	.168
	Filter Sharp	.305	7	.048	.865	7	.167
	Filter Standard	.303	7	.052	.870	7	.184

a. Lilliefors Significance Correction

- Jaringan Bagian Dalam

Tests of Normality							
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Filter	Statistic	df	Sig.	Statistic	df	Sig.
CT Number	Filter Smooth	.245	10	.091	.904	10	.244
	Filter Sharp	.245	10	.092	.905	10	.251
	Filter Standard	.247	10	.086	.906	10	.254

a. Lilliefors Significance Correction

b. Metode *Axial Scanning*

- Jaringan Bagian Luar

		Tests of Normality ^a					
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Filter	Statistic	df	Sig.	Statistic	df	Sig.
CT Number	Filter Smooth	.306	7	.047	.864	7	.165
	Filter Sharp	.305	7	.048	.864	7	.166
	Filter Standard	.302	7	.052	.871	7	.190

a. Lilliefors Significance Correction

- Jaringan Bagian Dalam

Tests of Normality							
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Filter	Statistic	df	Sig.	Statistic	df	Sig.
CT Number	Filter Smooth	.244	10	.093	.905	10	.247
	Filter Sharp	.244	10	.092	.905	10	.250
	Filter Standard	.246	10	.087	.906	10	.253

a. Lilliefors Significance Correction

2. Uji Paired Samples Test

a. Metode *Helical Scanning*

Paired Samples Test									
				Paired Differences		95% Confidence Interval of the Difference			
				Mean	Std. Deviation	Std. Error Mean	Lower	Upper	
Pair 1	Smooth Bagian Dalam	-	Smooth Bagian Luar	2.527429	3.353428	1.267477	-.573975	5.628832	1.994 6 .093
Pair 2	Sharp Bagian Dalam	-	Sharp Bagian Luar	1.882286	2.278837	.861319	-.225287	3.989859	2.185 6 .072
Pair 3	Standard Bagian Dalam	-	Standard Bagian luar	1.70929	3.31569	1.25321	-1.35722	4.77579	1.364 6 .222

b. Metode *Axial Scanning*

Paired Samples Test									
				Paired Differences		95% Confidence Interval of the Difference			
				Mean	Std. Deviation	Std. Error Mean	Lower	Upper	
Pair 1	Smooth Bagian Dalam	-	Smooth Bagian Luar	2.057429	2.577269	.974116	-.326148	4.441005	2.112 6 .079
Pair 2	Sharp Bagian Dalam	-	Sharp Bagian Luar	2.948714	2.776406	1.049383	.380967	5.516462	2.810 6 .031
Pair 3	Standard Bagian Dalam	-	Standard Bagian luar	2.55771	3.29334	1.24476	-.48811	5.60354	2.055 6 .086

3. Uji Independent Test

a. Metode *Helical Scanning*

- Jaringan Bagian Luar

Group Statistics

Filter		N	Mean	Std. Deviation	Std. Error Mean
CT Number	Filter Smooth	7	-143.19529	367.637399	138.953876
	Filter Sharp	7	-145.29343	367.519554	138.909335

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means					
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference Lower Upper
CT Number	Equal variances assumed	.000	1.000	.011	12	.992	2.098143	196.478963	-425.992742 430.189028
	Equal variances not assumed			.011	12.000	.992	2.098143	196.478963	-425.992747 430.189033

T-Test

Group Statistics

Filter		N	Mean	Std. Deviation	Std. Error Mean
CT Number	Filter Sharp	7	-145.29343	367.519554	138.909335
	Filter Standard	7	-140.27986	371.166450	140.287732

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference		Lower	Upper
CT Number	Equal variances assumed	.000	.983	-.025	12	.980	-5.013571	197.424545		-435.164702	425.137560
	Equal variances not assumed			-.025	11.999	.980	-5.013571	197.424545		-435.169354	425.142211

T-Test

Group Statistics

Filter		N	Mean	Std. Deviation	Std. Error Mean
CT Number	Filter Smooth	7	-143.19529	367.637399	138.953876
	Filter Standard	7	-140.27986	371.166450	140.287732

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference		Lower	Upper
CT Number	Equal variances assumed	.000	.984	-.015	12	.988	-2.915429	197.455887		-433.134848	427.303991
	Equal variances not assumed			-.015	11.999	.988	-2.915429	197.455887		-433.139203	427.308346

- Jaringan Bagian Dalam

T-Test

Group Statistics

	Filter	N	Mean	Std. Deviation	Std. Error Mean
CT Number	Filter Smooth	10	133.66450	639.285408	202.159796
	Filter Sharp	10	131.65870	639.204054	202.134070

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference		Lower	Upper
CT Number	Equal variances assumed	.000	1.000	.007	18	.994	2.005800	285.878935		-598.603556	602.615156
	Equal variances not assumed			.007	18.000	.994	2.005800	285.878935		-598.603556	602.615156

T-Test

Group Statistics

	Filter	N	Mean	Std. Deviation	Std. Error Mean
CT Number	Filter Sharp	10	131.65870	639.204054	202.134070
	Filter Standard	10	141.57760	648.920404	205.206650

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference		Lower	Upper
CT Number	Equal variances assumed	.003	.959	-.034	18	.973	-9.918900	288.041579		-615.071802	595.234002
	Equal variances not assumed			-.034	17.996	.973	-9.918900	288.041579		-615.081674	595.243874

T-Test

Group Statistics

	Filter	N	Mean	Std. Deviation	Std. Error Mean
CT Number	Filter Smooth	10	133.66450	639.285408	202.159796
	Filter Standard	10	141.57760	648.920404	205.206650

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means					95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
CT Number	Equal variances assumed	.003	.959	-.027	18	.978	-7.913100	288.059633	-613.103932	597.277732
	Equal variances not assumed			-.027	17.996	.978	-7.913100	288.059633	-613.113638	597.287438

- b. Metode Axial Scanning
- Jaringan Bagian Luar

T-Test

Group Statistics

	Filter	N	Mean	Std. Deviation	Std. Error Mean
CT Number	Filter Smooth	7	-143.47871	367.670803	138.966501
	Filter Sharp	7	-144.87214	368.167371	139.154186

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference		Lower	Upper
CT Number	Equal variances assumed	.000	.997	.007	12	.994	1.393429	196.661069		-427.094232	429.881089
	Equal variances not assumed			.007	12.000	.994	1.393429	196.661069		-427.094318	429.881175

T-Test

Group Statistics

	Filter	N	Mean	Std. Deviation	Std. Error Mean
CT Number	Filter Sharp	7	-144.87214	368.167371	139.154186
	Filter Standard	7	-140.28857	371.136676	140.276478

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference		Lower	Upper
CT Number	Equal variances assumed	.000	.990	-.023	12	.982	-4.583571	197.588911		-435.092827	425.925684
	Equal variances not assumed			-.023	11.999	.982	-4.583571	197.588911		-435.095907	425.928765

T-Test

Group Statistics

	Filter	N	Mean	Std. Deviation	Std. Error Mean
CT Number	Filter Smooth	7	-143.47871	367.670803	138.966501
	Filter Standard	7	-140.28857	371.136676	140.276478

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
CT Number	Equal variances assumed	.000	.986	-.016	12	.987	-3.190143	197.456777	-433.411502	427.031217
	Equal variances not assumed			-.016	11.999	.987	-3.190143	197.456777	-433.415702	427.035417

- Jaringan Bagian Dalam

► T-Test

Group Statistics

	Filter	N	Mean	Std. Deviation	Std. Error Mean
CT Number	Filter Smooth	10	132.83670	638.263587	201.836668
	Filter Sharp	10	130.54800	638.224399	201.824276

Independent Samples Test

		Levene's Test for Equality of Variances							t-test for Equality of Means		95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference			Lower	Upper
CT Number	Equal variances assumed	.000	.999	.008	18	.994	2.288700	285.431391			-597.380401	601.957801
	Equal variances not assumed			.008	18.000	.994	2.288700	285.431391			-597.380401	601.957801

➔ **T-Test**

Group Statistics

	Filter	N	Mean	Std. Deviation	Std. Error Mean
CT Number	Filter Sharp	10	130.54800	638.224399	201.824276
	Filter Standard	10	140.87760	649.415143	205.363100

Independent Samples Test

		Levene's Test for Equality of Variances							t-test for Equality of Means		95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference			Lower	Upper
CT Number	Equal variances assumed	.003	.955	-.036	18	.972	-10.329600	287.935828			-615.260328	594.601128
	Equal variances not assumed			-.036	17.995	.972	-10.329600	287.935828			-615.273426	594.614226

➔ T-Test

active

Group Statistics

	Filter	N	Mean	Std. Deviation	Std. Error Mean
CT Number	Filter Smooth	10	132.83670	638.263587	201.836668
	Filter Standard	10	140.87760	649.415143	205.363100

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference		Lower	Upper
CT Number	Equal variances assumed	.003	.954	-.028	18	.978	-8.040900	287.944514		-612.989877	596.908077
	Equal variances not assumed			-.028	17.995	.978	-8.040900	287.944514		-613.002884	596.921084

c. Metode *Helical* dan *Axial Scanning*

- Jaringan **Bagian Luar**

T-Test

Group Statistics

Metode Akuisisi	N	Mean	Std. Deviation	Std. Error Mean
Helical Scanning	7	-143.19529	367.637399	138.953876
Axial Scanning	7	-143.47871	367.670803	138.966501

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means					95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
HU Smooth	Equal variances assumed	.000	.999	.001	12	.999	.283429	196.519384	-427.895526	428.462383
	Equal variances not assumed			.001	12.000	.999	.283429	196.519384	-427.895526	428.462383

➔ **T-Test**

Group Statistics

Metode Akuisisi	N	Mean	Std. Deviation	Std. Error Mean
HU Sharp Helical Scanning	7	-145.29343	367.519554	138.909335
Axial Scanning	7	-144.87214	368.167371	139.154186

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means					95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
HU Sharp	Equal variances assumed	.000	.995	-.002	12	.998	-.421286	196.620677	-428.820940	427.978369
	Equal variances not assumed			-.002	12.000	.998	-.421286	196.620677	-428.821087	427.978516

➔ **T-Test**

Group Statistics

Metode Akuisisi		N	Mean	Std. Deviation	Std. Error Mean
HU Standard	Helical Scanning	7	-140.27986	371.166450	140.287732
	Axial Scanning	7	-140.28857	371.136676	140.276478

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference		Lower	Upper
HU Standard	Equal variances assumed	.000	.999	.000	12	1.000	.008714	198.388856		-432.243469	432.260898
	Equal variances not assumed			.000	12.000	1.000	.008714	198.388856		-432.243470	432.260898

- Jaringan Bagian Dalam

→ T-Test

Group Statistics

Metode Akuisisi		N	Mean	Std. Deviation	Std. Error Mean
HU Smooth	Helical Scanning	10	133.66450	639.285408	202.159796
	Axial Scanning	10	132.83670	638.263587	201.836668

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means					95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
HU Smooth	Equal variances assumed	.000	.997	.003	18	.998	.827800	285.668731	-599.339933	600.995533
	Equal variances not assumed			.003	18.000	.998	.827800	285.668731	-599.340043	600.995643

➔ **T-Test**

Group Statistics

Metode Akuisisi		N	Mean	Std. Deviation	Std. Error Mean
HU Sharp	Helical Scanning	10	131.65870	639.204054	202.134070
	Axial Scanning	10	130.54800	638.224399	201.824276

Independent Samples Test

		Levene's Test for Equality of Variances					t-test for Equality of Means		95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
HU Sharp	Equal variances assumed	.000	.998	.004	18	.997	1.110700	285.641770	-599.000390	601.221790
	Equal variances not assumed			.004	18.000	.997	1.110700	285.641770	-599.000491	601.221891

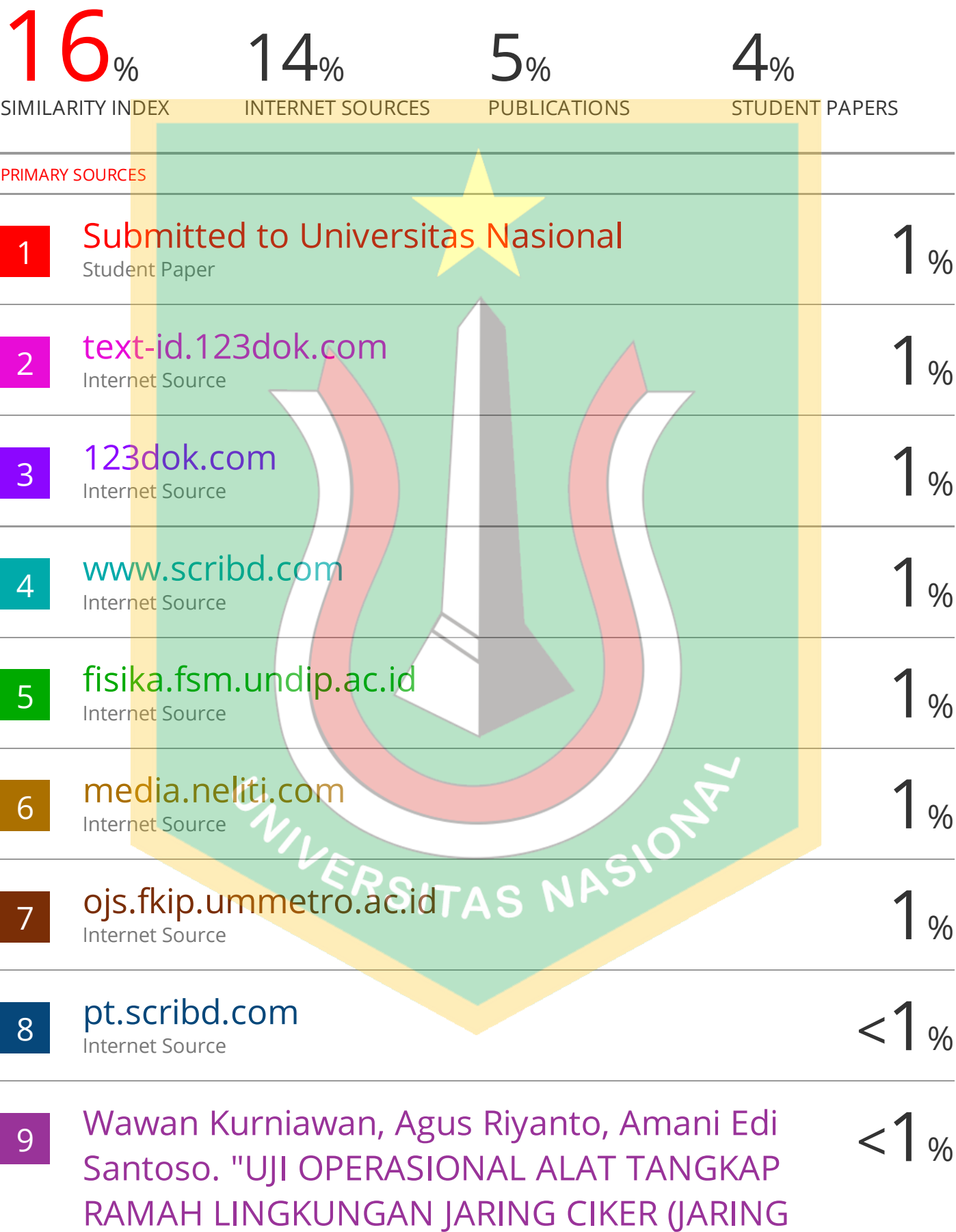
➔ **T-Test**

Group Statistics

Metode Akuisisi		N	Mean	Std. Deviation	Std. Error Mean
HU Standard	Helical Scanning	10	141.57760	648.920404	205.206650
	Axial Scanning	10	140.87760	649.415143	205.363100

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference		Lower	Upper
HU Standard	Equal variances assumed	.000	.998	.002	18	.998	.700000	290.316675		-609.232701	610.632701
	Equal variances not assumed			.002	18.000	.998	.700000	290.316675		-609.232727	610.632727



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