


## DAFTAR PUSTAKA

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## LAMPIRAN

### Lampiran 1. *Ethical Clearance*

	<p><b>KOMISI ETIK PENELITIAN KESEHATAN (KEPK) FAKULTAS KEDOKTERAN UNIVERSITAS DIPONEGORO DAN RSUP dr KARIADI SEMARANG</b> Sekretariat : Kantor Dekanat FK Undip Lt.3 Jl. Dr. Soetomo 18. Semarang 50231 Telp/Fax. 024-8318350</p>	
<h3>ETHICAL CLEARANCE</h3> <p>No.262 /EC/FK-RSDK/2014</p>		
<p>Komisi Etik Penelitian Kesehatan Fakultas Kedokteran Universitas Diponegoro- RSUP Dr. Kariadi Semarang, setelah membaca dan menelaah Usulan Penelitian dengan judul :</p>		
<p><b>PENGARUH BERMAIN VIDEO GAME TIPE FIRST PERSON SHOOTER TERHADAP WAKTU REAKSI YANG DIUKUR DENGAN RULER DROP TEST</b></p>		
<p>Peneliti Utama :</p>	<p>Irfan Satya Aji</p>	
<p>Pembimbing :</p>	<p>1. dr. Gana Adyaksa, M.Si.Med 2. dr. Budi Laksono</p>	
<p>Penelitian :</p>	<p>Dilaksanakan di ruang BBDM 9 Gedung B Fakultas Kedokteran UNDIP Semarang</p>	
<p>Setuju untuk dilaksanakan, dengan memperhatikan prinsip-prinsip yang dinyatakan dalam Deklarasi Helsinki 1975, yang diamended di Seoul 2008 dan Pedoman Nasional Etik Penelitian Kesehatan (PNEPK) Departemen Kesehatan RI 2011</p>		
<p>Peneliti harus melampirkan 2 kopi lembar Informed consent yang telah disetujui dan ditandatangani oleh peserta penelitian pada laporan penelitian. Peneliti diwajibkan menyerahkan :</p> <ul style="list-style-type: none"> <li>- Laporan kemajuan penelitian (clinical Trial)</li> <li>- Laporan kejadian efek samping jika ada</li> <li>- Laporan ke KEPK jika penelitian sudah selesai &amp; dilampiri Abstrak Penelitian.</li> </ul>		
<p>Semarang, 12 MAY 2014</p>		
<p>Komisi Etik Penelitian Kesehatan Fakultas Kedokteran Undip-RSUP Dr. Kariadi Ketua</p>		
		
<p>Prof.Dr.dr.Suprihati, M.Sc, Sp.THT-KL(K) NIP. 19500621197703 2 001</p>		

## Lampiran 2. Surat Izin Penelitian

	<b>KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN</b> <b>UNIVERSITAS DIPONEGORO</b> <b>FAKULTAS KEDOKTERAN</b> Jl. Prof. H. Soedarto, SH – Tembalang – Semarang Telepon 024-76928010, Fax. 024-76928011, Email : dean_fmdu@undip.ac.id
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Nomor : 1531 /UN7.3.4/D1/PP/2014  
Lampiran : 1 bendel  
Perihal : Permohonan ijin penelitian

20 MAR 2014

Yth. Dekan Fakultas Kedokteran  
Universitas Diponegoro  
Semarang

Dengan hormat,

Bersama ini kami hadapkan mahasiswa Program Studi Pendidikan Dokter Fakultas Kedokteran Universitas Diponegoro Semarang:

Nama : Irfan Satya Aji  
NIM : 22010110130158  
Semester : VIII (delapan)

Mohon diijinkan melakukan penelitian di Fakultas Kedokteran Undip Semarang, dalam rangka penyusunan Karya Tulis Ilmiah mahasiswa. Terlampir proposal mahasiswa yang bersangkutan.

Judul/ Topik : Pengaruh Bermain Video Game Tipe First Person Shooter dengan Waktu Reaksi yang Diukur dengan Ruler Drop Test

Pembimbing : dr. Gana Adyaksa, M.Si.Med/ dr. Budi Laksono

Atas perhatian dan kerjasamanya diucapkan terima kasih.

Pembantu Dekan I,  
  
dr. Herman Kristanto, MS, Sp. OG(K)  
NIP. 196305051989031003



Tembusan :

1. Pembantu Dekan III
2. Ketua Tim Karya Tulis Ilmiah
3. Pembimbing
4. Mahasiswa Yang Bersangkutan

Lampiran 3. *Informed Consent*

JUDUL PENELITIAN : Pengaruh Bermain *Video Game* Tipe *First Person Shooter* terhadap Waktu Reaksi yang Diukur Dengan *Ruler Drop Test*

INSTANSI PELAKSANA : Fakultas Kedokteran Universitas Diponegoro

PENELITI : Irfan Satya Aji

**Persetujuan Setelah Penjelasan**  
***(INFORMED CONSENT)***

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Yth Saudara :

Saya : Irfan Satya Aji, adalah Mahasiswa Fakultas Kedokteran Universitas Diponegoro yang bermaksud ingin melibatkan Saudara untuk menjadi subjek dalam penelitian ini dengan tujuan mengetahui pengaruh bermain *video game* tipe *first person shooter* terhadap waktu reaksi.

Pada penelitian ini akan dilakukan wawancara, tes waktu reaksi menggunakan *ruler drop test* dan bermain *video game* dalam durasi tertentu, pelaksanaan penelitian tidak akan menimbulkan efek samping bagi subjek.

Seluruh biaya yang diperlukan dan berhubungan dengan penelitian menjadi tanggung jawab peneliti.

Identitas dan hasil pemeriksaan yang diperoleh akan dirahasiakan. Penderita berhak menolak untuk diikutsertakan dalam penelitian dengan alasan apapun, serta tidak ada konsekuensi apapun apabila tidak ikut serta dalam penelitian.

Terima kasih atas kerjasama Saudara.

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Setelah mendengar dan memahami penjelasan penelitian, dengan ini saya menyatakan

**SETUJU / TIDAK SETUJU**

Untuk ikut sebagai responden / sampel penelitian.

Semarang,..... 2014

Saksi :

Nama Terang :

Alamat :

Nama Terang :

Alamat :

## Lampiran 4. Kuesioner Penelitian



## KUESIONER PENELITIAN

PENGARUH BERMAIN VIDEO GAME TIPE FIRST PERSON SHOOTER  
TERHADAP WAKTU REAKSI YANG DIUKUR DENGAN RULER DROP  
TEST

No. Kuesioner :

Nama Responden :

Tanggal Wawancara :

**A. IDENTITAS RESPONDEN**

1. Nama :
2. Usia :
3. Jenis Kelamin :
4. Nomor Telepon :

**B. ANAMNESIS**

1. Apakah anda memiliki kelainan refraksi mata ?
  - a. Ya
  - b. Tidak
2. Jika iya, berapa? Sebutkan .....
3. Apakah kelainan refraksi anda dikoreksi dengan kaca mata atau lensa kontak?
  - a. Ya
  - b. Tidak
4. Apakah anda memiliki kelainan muskulo skeletal pada tangan?
  - a. Ya, sebutkan .....
  - b. Tidak
5. Apakah anda memiliki riwayat kejang?

- a. Ya
  - b. Tidak
6. Tangan manakah yang anda gunakan dominan sehari-hari? (Untuk menulis, mengetik, dll)
- a. Kanan
  - b. Kiri
7. Apakah anda dapat mengoperasikan komputer?
- a. Ya
  - b. Tidak
8. Apakah anda pernah bermain *video game*?
- a. Pernah
  - b. Tidak Pernah
9. *Video game* apa yang sering anda mainkan?  
Sebutkan.....
10. Berapa lama (jam) anda memainkan *video game* dalam satu minggu?  
Sebutkan.....



Lampiran 5. Lembar Pengesahan Kuesioner KTI

**LEMBAR PENGESAHAN KUESIONER KTI**

**PENGARUI BERMAIN *VIDEO GAME* TIPE *FIRST PERSON SHOOTER*  
TERHADAP WAKTU REAKSI YANG DIUKUR DENGAN *RULER DROP TEST***

Telah disetujui

Semarang, 28 Februari 2014

**Pembimbing 1**



dr. Gita Adyaksa, Msi.Med  
NIP. 198307202008121003

**Pembimbing 2**



dr. Budi Laksono  
NIP. 196510261997021002

**Penguji**



dr. Darmawati Ayu Indraswari  
NIP. 198608012010122004

## Lampiran 6, Hasil Analisis Statistik

**Karakteristik**

		<b>Descriptives</b>		
		Statistic	Std. Error	
Umur	Mean	21.2778	.14148	
	95% Confidence Interval for Mean	Lower Bound	20.9906	
		Upper Bound	21.5650	
	5% Trimmed Mean	21.2840		
	Median	21.0000		
	Variance	.721		
	Std. Deviation	.84890		
	Minimum	19.00		
	Maximum	23.00		
	Range	4.00		
	Interquartile Range	1.00		
	Skewness	-.286	.393	
	Kurtosis	.548	.768	
Durasi	Mean	4.7917	.29235	
	95% Confidence Interval for Mean	Lower Bound	4.1982	
		Upper Bound	5.3852	
	5% Trimmed Mean	4.8704		
	Median	5.5000		
	Variance	3.077		
	Std. Deviation	1.75408		
	Minimum	.50		
	Maximum	7.00		
	Range	6.50		
	Interquartile Range	3.00		
	Skewness	-.720	.393	
	Kurtosis	-.553	.768	

**EXPLORE****Descriptives<sup>a,b,c,d,e,f,g,h</sup>**

		Statistic	Std. Error	
Kontrol pre RT	Mean	166,2222	4,45277	
	95% Confidence Interval for Mean	Lower Bound	155,9541	
		Upper Bound	176,4903	
	5% Trimmed Mean	166,9136		
	Median	165,0000		
	Variance	178,444		
	Std. Deviation	13,35831		
	Minimum	138,00		
	Maximum	182,00		
	Range	44,00		
	Interquartile Range	17,00		
	Skewness	-1,116	,717	
	Kurtosis	1,681	1,400	
	Kontrol post RT	Mean	172,4444	8,84922
95% Confidence Interval for Mean		Lower Bound	152,0381	
		Upper Bound	192,8508	
5% Trimmed Mean		172,8272		
Median		169,0000		
Variance		704,778		
Std. Deviation		26,54765		
Minimum		126,00		
Maximum		212,00		
Range		86,00		
Interquartile Range		39,50		
Skewness		-,248	,717	
Kurtosis		-,108	1,400	
p1preRT		Mean	191,5556	4,37515
	95% Confidence Interval for Mean	Lower Bound	181,4664	
		Upper Bound	201,6447	
	5% Trimmed Mean	191,8395		
	Median	193,0000		
	Variance	172,278		
Std. Deviation	13,12546			

	Minimum		165,00	
	Maximum		213,00	
	Range		48,00	
	Interquartile Range		13,50	
	Skewness		-,612	,717
	Kurtosis		1,921	1,400
	Mean		174,2222	4,62114
	95% Confidence Interval for Mean	Lower Bound	163,5659	
		Upper Bound	184,8786	
	5% Trimmed Mean		174,4691	
	Median		171,0000	
	Variance		192,194	
p1postRT	Std. Deviation		13,86342	
	Minimum		152,00	
	Maximum		192,00	
	Range		40,00	
	Interquartile Range		24,50	
	Skewness		-,212	,717
	Kurtosis		-1,332	1,400
	Mean		202,4444	4,80483
	95% Confidence Interval for Mean	Lower Bound	191,3645	
		Upper Bound	213,5244	
	5% Trimmed Mean		203,0494	
	Median		207,0000	
	Variance		207,778	
p2preRT	Std. Deviation		14,41450	
	Minimum		174,00	
	Maximum		220,00	
	Range		46,00	
	Interquartile Range		20,50	
	Skewness		-,920	,717
	Kurtosis		,654	1,400
	Mean		171,5556	6,02797
	95% Confidence Interval for Mean	Lower Bound	157,6550	
p2postRT		Upper Bound	185,4561	
	5% Trimmed Mean		172,6728	
	Median		179,0000	

	Variance		327,028	
	Std. Deviation		18,08391	
	Minimum		137,00	
	Maximum		186,00	
	Range		49,00	
	Interquartile Range		28,00	
	Skewness		-1,328	,717
	Kurtosis		,365	1,400
	Mean		185,5556	5,41375
	95% Confidence Interval for Mean	Lower Bound	173,0714	
		Upper Bound	198,0397	
	5% Trimmed Mean		184,9506	
	Median		179,0000	
	Variance		263,778	
p3preRT	Std. Deviation		16,24124	
	Minimum		167,00	
	Maximum		215,00	
	Range		48,00	
	Interquartile Range		27,00	
	Skewness		,788	,717
	Kurtosis		-,445	1,400
	Mean		189,1111	6,49668
	95% Confidence Interval for Mean	Lower Bound	174,1298	
		Upper Bound	204,0925	
	5% Trimmed Mean		188,4012	
	Median		187,0000	
	Variance		379,861	
p3postRT	Std. Deviation		19,49003	
	Minimum		164,00	
	Maximum		227,00	
	Range		63,00	
	Interquartile Range		29,00	
	Skewness		,799	,717
	Kurtosis		,526	1,400

### Tests of Normality

		Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
RTpre	Kontrol	,241	9	,139	,909	9	,306
	P1	,171	9	,200*	,951	9	,696
	P2	,180	9	,200*	,935	9	,534
	P3	,212	9	,200*	,922	9	,406
RTpost	Kontrol	,218	9	,200*	,941	9	,592
	P1	,204	9	,200*	,933	9	,506
	P2	,326	9	,006	,780	9	,012
	P3	,169	9	,200*	,958	9	,772

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

### Uji T Berpasangan

#### Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	KontrolPre – KontrolPost	-6,22222	19,70265	6,56755	-21,36702	8,92258	-,947	8	,371
Pair 2	P1pre - P1post	17,33333	14,18626	4,72875	6,42881	28,23786	3,666	8	,006
Pair 3	P2pre - P2post	30,88889	13,06182	4,35394	20,84869	40,92909	7,094	8	,000

### Wilcoxon

#### Test Statistics<sup>a</sup>

	p3postjadi - p3prejadi
Z	-,701 <sup>b</sup>
Asymp. Sig. (2-tailed)	,483

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

## EXPLORE

## Descriptives

	kelompokselisih	Statistic	Std. Error
	Mean	-6,2222	6,56755
	95% Confidence Interval for Mean	Lower Bound -21,3670 Upper Bound 8,9226	
	5% Trimmed Mean	-5,3580	
	Median	-4,0000	
	Variance	388,194	
1,00	Std. Deviation	19,70265	
	Minimum	-47,00	
	Maximum	19,00	
	Range	66,00	
	Interquartile Range	25,50	
	Skewness	-,958	,717
	Kurtosis	1,371	1,400
	Mean	17,3333	4,72875
selisihjadi	95% Confidence Interval for Mean	Lower Bound 6,4288 Upper Bound 28,2379	
	5% Trimmed Mean	16,8704	
	Median	20,0000	
	Variance	201,250	
2,00	Std. Deviation	14,18626	
	Minimum	-2,00	
	Maximum	45,00	
	Range	47,00	
	Interquartile Range	20,00	
	Skewness	,553	,717
	Kurtosis	,691	1,400
	Mean	30,8889	4,35394
3,00	95% Confidence Interval for Mean	Lower Bound 20,8487 Upper Bound 40,9291	

		5% Trimmed Mean	31,3765	
		Median	34,0000	
		Variance	170,611	
		Std. Deviation	13,06182	
		Minimum	2,00	
		Maximum	51,00	
		Range	49,00	
		Interquartile Range	9,50	
		Skewness	-1,130	,717
		Kurtosis	3,372	1,400
		Mean	-3,5556	5,24963
		95% Confidence Interval for Mean		
		Lower Bound	-15,6612	
		Upper Bound	8,5501	
		5% Trimmed Mean	-3,5062	
		Median	-6,0000	
		Variance	248,028	
4,00		Std. Deviation	15,74890	
		Minimum	-30,00	
		Maximum	22,00	
		Range	52,00	
		Interquartile Range	20,50	
		Skewness	,225	,717
		Kurtosis	,245	1,400

#### Tests of Normality

	kelompokselisih	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
selisihRT	Kontrol	,147	9	,200 <sup>*</sup>	,943	9	,609



P1	,171	9	,200*	,928	9	,460
P2	,243	9	,134	,875	9	,141
P3	,188	9	,200*	,943	9	,610

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

## One Way Anova

### Test of Homogeneity of Variances

selisihjadi

Levene Statistic	df1	df2	Sig.
,569	3	32	,639

### ANOVA

selisihjadi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8152,333	3	2717,444	10,718	,000
Within Groups	8113,556	32	253,549		
Total	16265,889	35			

## Post-hoc Tukey

### Multiple Comparisons

Dependent Variable: selisihjadi

Tukey HSD

(I) kelom poksel isih	(J) kelompok selisih	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
	2,00	-21,77778*	7,44931	,030	-41,9607	-1,5949
1,00	3,00	-37,11111*	7,44931	,000	-57,2940	-16,9282
	4,00	-2,66667	7,44931	,984	-22,8496	17,5162
	1,00	21,77778*	7,44931	,030	1,5949	41,9607
2,00	3,00	-15,33333	7,44931	,189	-35,5162	4,8496
	4,00	19,11111	7,44931	,069	-1,0718	39,2940
	1,00	37,11111*	7,44931	,000	16,9282	57,2940
3,00	2,00	15,33333	7,44931	,189	-4,8496	35,5162
	4,00	34,44444*	7,44931	,000	14,2616	54,6273
	1,00	2,66667	7,44931	,984	-17,5162	22,8496
4,00	2,00	-19,11111	7,44931	,069	-39,2940	1,0718
	3,00	-34,44444*	7,44931	,000	-54,6273	-14,2616

\*. The mean difference is significant at the 0.05 level.

### Lampiran 7. Dokumentasi



### Lampiran 8. Biodata Mahasiswa

**Identitas**

Nama : Irfan Satya Aji  
NIM : 22010110130158  
Tempat/tanggal lahir : Semarang, 9 Januari 1993  
Jenis kelamin : Laki-laki  
Alamat : Jl. Bougenville III D4/9 GTB BSB, Semarang  
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**Riwayat Pendidikan Formal**

1. SD : SD Isriati Semarang Lulus tahun : 2004
2. SMP: SMP Negeri 5 Semarang Lulus tahun : 2007
3. SMA: SMA Negeri 3 Semarang Lulus tahun : 2010
4. S1 : Fakultas Kedokteran Universitas Diponegoro Masuk tahun: 2010