DAFTAR PUSTAKA

1. Entertainment Software Association. Essential Facts about The Computer and Video Game Industry. 2013.
2. Gentile DA. Pathological Video-game Use among Youth Ages 8-18: A National Study. Psychological Science. 2009;20(5):594-602.
3. Prot S, McDonald KA, Anderson CA, et al. Video Games : Good, Bad, or Other? Pediatric Clinics of North America. 2012;59(3):647-658.
4. Elias H. First Person Shooter : The Subjective Cyberspace. Covilha: LabCom Books 2009.
5. Baniqued PL, Lee H, Voss MW, et al. Selling points: What cognitive abilities are tapped by casual video games? Acta Psychologica. 2013;142(1):74-86.
6. Heimann M, Tjus T, Strid K. Attention in Cognition and Early Learning. In Peterson P, Baker E, McGaw B, (Eds). International Encyclopedia of Education (Third Edition). Oxford: Elsevier 2010:165-171.
7. Fan J, McCandliss BD, Sommer T, et al. Testing the Efficiency and Independence of Attentional Networks. Journal of Cognitive Neuroscience. 2002;14(3):340-347.
8. Dye MWG, Green CS, Bavelier D. The Development of Attention Skills in Action Video Game Players. Neuropsychologia. 2009;47(8–9):1780-1789.
9. Bavelier D, Achtman RL, Mani M, et al. Neural Bases of Selective Attention in Action Video Game Players. Vision Research. 2012;61(0):132-143.
10. Kirriemuir J, McFarlane A. Literature Review in Games and Learning. 2004.
11. Fromme J. Computer Games as a Part of Children's Culture. The Interntional Journal of Computer Game Research : Game Studies. 2003.
12. Griffiths M. Computer Game Playing and Social Skills: a Pilot Study. Aloma. 2010;27:301-310.

13. Griffiths MD. Diagnosis and Management of Video Game Addiction. New Direction in Addiction Treatment and Prevention. 2008;12:27-41.
14. Rollings A, Adams E. Andrew Rollings and Ernest Adams on Game Design: New Riders 2003.
15. Arsenault D. Video Game Genre, Evolution and Innovation 2009.
16. Green CS, Bavelier D. Action Video Game Modifies Visual Selective Attention. Nature. 2003;423(6939):534-537.
17. Posner MI, Petersen SE. The Attention System of Human Brain. Annual Review of Neuroscience. 1990;13:25-42.
18. Coull JT. Modulation of Attention by Noradrenergic Alpha2-agents Varies According to Arousal Level. Drug news & perspectives. 2001;14(1):5-11.
19. Corbetta M, Shulman GL. Human Cortical Mechanisms of Visual Attention During Orienting and Search. Philosophical transactions of the Royal Society of London Series B, Biological sciences. 1998;353(1373):1353-1362.
20. Wilson KD, Woldorff MG, Mangun GR. Control Networks and Hemispheric Asymmetries in Parietal Cortex During Attentional Orienting in Different Spatial Reference Frames. NeuroImage. 2005;25(3):668-683.
21. Posner MI, Sheese BE, Odludaş Y, et al. Analyzing and Shaping Human Attentional Networks. Neural Networks. 2006;19(9):1422-1429.
22. Bush G, Luu P, Posner MI. Cognitive and Emotional Influences in Anterior Cingulate Cortex. Trends in cognitive sciences. 2000;4(6):215-222.
23. Hüttermann S, Bock O, Memmert D. The Breadth of Attention in Old Age. Ageing Research. 2012;4(10):67-70.
24. Levy F, Hobbes G. The Influences of Social Class and Sex on Sustained Attention (Vigilance) and Motor Inhibition in Children. Australian and New Zealand Journal of Psychiatry. 1979;13(3):231-234.
25. Teleb AA, Awamleh AAA. Gender Differences in Cognitive Abilites. Current Research in Psychology. 2012;3(1):33-39.

26. Pontifex MB, Saliba BJ, Raine LB, et al. Exercise Improves Behavioral, Neurocognitive, and Scholastic Performance in Children with Attention-Deficit/Hyperactivity Disorder. The Journal of pediatrics. 2013;162(3):543-551.
27. American Psychiatric Association. American Psychiatric Association: Diagnostic and Statistical Manual of Mental Disorder. Arlington, VA: American Pschiatric Publishing 2013.
28. Colzato LS, Van Leeuwen PJA, Van Den Wildenberg W, et al. DOOM'd to Switch: Superior Cognitive Flexibility in Players of First Person Shooter Games. Frontiers in Psychology. 2010;1.
29. Granic I, Lobel A, Engels RCME. The Benefits of Playing Video Games. American Psychologist. 2014;69(1).
30. Dye MWG, Bavelier D. Playing video games enhances visual attention in children. Journal of Vision. 2004;4(11):40.
31. Chan PA, Rabinowitz T. A Cross-Sectional Analysis of Video Games and Attention Deficit Hyperactivity Disorder Symptoms in Adolescents. Annals of General Psychiatry. 2006;5(16).
32. Franceschini S, Gori S, Ruffino M, et al. Action Video Games Make Dyslexic Children Read Better. Current Biology. 2013;23(6):462-466.

Lampiran 1. Kuesioner Penelitian

KUESIONER PENELITIAN
PENGARUH BERMAIN VIDEO GAME TIPE FIRST PERSON SHOOTER TERHADAP ATENSI YANG DIUKUR DENGAN ATTENTION NETWORK 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 2

LEMBAR PENGESAHAN KUESIONER KTI

PENGARUH BERMAIN *VIDEO GAME* TIPE *FIRST PERSON SHOOTER* TERHADAP ATENSI YANG DIUKUR DENGAN *ATTENTION NETWORK TEST*

Telah disetujui

Semarang, 3 Maret 2014

dr. Gana Adyaksa, Msi.Med

dr. Budi Laksono

dr. Darmawati Ayu Indraswari

Lampiran 3. Informed Consent

JUDUL PENELITIAN : Pengaruh Bermain *Video game* Tipe *First Person Shooter* terhadap Atensi yang Diukur dengan *Atention Network Test*

INSTANSI PELAKSANA : Fakultas Kedokteran Universitas Diponegoro

PENELITI : Abraham Murya Arifian

Persetujuan Setelah Penjelasan

(INFORMED CONSENT)

Yang terhormat Saudara :

Peneliti tersebut di atas adalah Mahasiswa Fakultas Kedokteran Universitas Diponegoro yang bermaksud ingin melibatkan Saudara untuk menjadi responden dalam penelitian ini dengan tujuan mengetahui pengaruh bermain *video game* tipe *first person shooter* terhadap atensi yang diukur dengan *attention network test.*

Peneliti akan meminta Saudara untuk mengisi kuesioner untuk mengetahui jenis *video game* yang dimainkan, jangka waktu lama bermain *video game* tiap minggu dan beberapa status fisik. Kemudian akan dilakukan pengacakan subjek penelitian dan akan dibagi menjadi empat kelompok. Peneliti akan melakukan tes untuk mengetahui atensi pada tiap kelompok sebelum dan sesudah bermain *video game* menggunakan perangkat lunak yang bernama *Attention Network Test*. Peneliti menjamin kerahasiaan identitas dan informasi yang diberikan. Informasi tersebut hanya digunakan untuk kepentingan penelitian. Saudara berhak menolak dan keluar dari penelitian sesuai dengan keinginan.

Terima kasih atas kerjasama Saudara.

Setelah mendengar dan memahami penjelasan penelitian, dengan ini saya menyatakan

SETUJU / TIDAK SETUJU

Untuk ikut sebagai responden / subjek penelitian.

Semarang,……..... 2014

Saksi	:		
Nama Terang	:	Nama Terang	:
Alamat	:	Alamat	:

Lampiran 4. Surat Izin Penelitian

KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UNIVERSITAS DIPONEGORO
FAKULTAS KEDOKTERAN
Jl. Prof. H. Soedarto, SH – Tembalang – Semarang
Telepon 024-76928010, Fax. 024-76928011, Email : dean_fmdu@undip.ac.id

Nomor : 1530 /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 : Abraham Murya Arifian
NIM : 22010110120130
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 terhadap Atensi yang Diukur dengan Attention Network Test

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

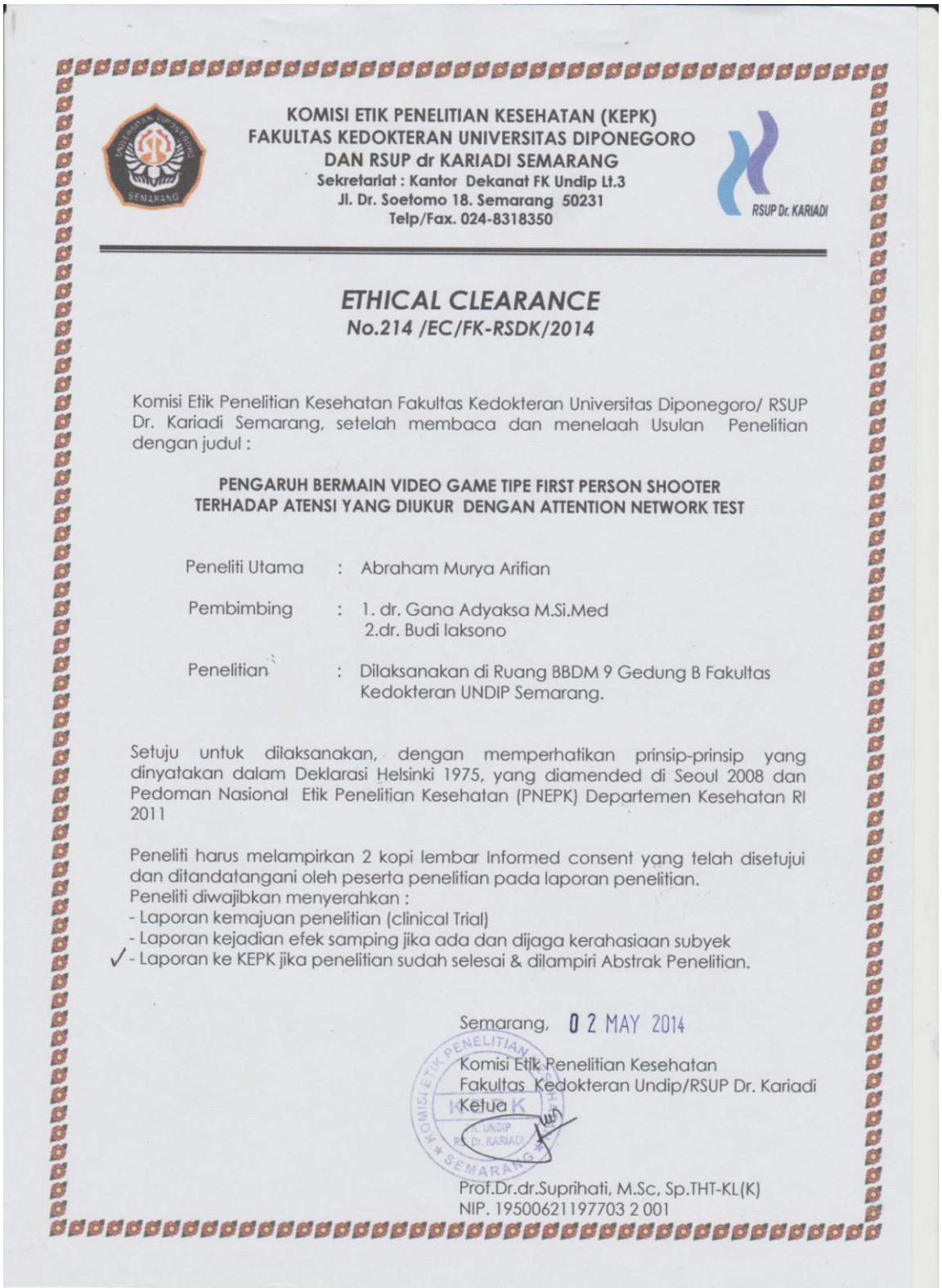
Atas perhatian dan kerjasamanya diucapkan terima kasih.

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 5. Ethical clearance



KOMISI ETIK PENELITIAN KESEHATAN (KEPK)
FAKULTAS KEDOKTERAN UNIVERSITAS DIPONEGORO
DAN RSUP dr KARIADI SEMARANG
Sekretariat : Kantor Dekanat FK Undip Lt.3
Jl. Dr. Soetomo 18. Semarang 50231
Telp/Fax. 024-8318350

RSUP Dr. KARIADI

ETHICAL CLEARANCE
No.214 /EC/FK-RSDK/2014

Komisi Etik Penelitian Kesehatan Fakultas Kedokteran Universitas Diponegoro/ RSUP Dr. Kariadi Semarang, setelah membaca dan menelaah Usulan Penelitian dengan judul :

PENGARUH BERMAIN VIDEO GAME TIPE FIRST PERSON SHOOTER TERHADAP ATENSI YANG DIUKUR DENGAN ATTENTION NETWORK TEST

Peneliti Utama : Abraham Murya Arifian

Pembimbing : 1. dr. Gana Adyaksa M.Si.Med
2.dr. Budi laksono

Penelitian : Dilaksanakan di Ruang BBDM 9 Gedung B Fakultas Kedokteran UNDIP Semarang.

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

Peneliti harus melampirkan 2 kopi lembar Informed consent yang telah disetujui dan ditandatangani oleh peserta penelitian pada laporan penelitian.
Peneliti diwajibkan menyerahkan :
- Laporan kemajuan penelitian (clinical Trial)
- Laporan kejadian efek samping jika ada dan dijaga kerahasiaan subyek
✓ - Laporan ke KEPK jika penelitian sudah selesai & dilampiri Abstrak Penelitian.

Semarang, 02 MAY 2014

Komisi Etik Penelitian Kesehatan
Fakultas Kedokteran Undip/RSUP Dr. Kariadi
Ketua

Prof.Dr.dr.Suprihati, M.Sc, Sp.THT-KL(K)
NIP. 19500621197703 2 001

Lampiran 6. Lampiran Statistik

Descriptives

			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

			Statistic	Std. Error
Kontrol Pre Alert	Mean		37.7778	4.35181
	95% Confidence Interval for Mean	Lower Bound	27.7425	
		Upper Bound	47.8131	
	5% Trimmed Mean		37.4198	
	Median		36.0000	
	Variance		170.444	
	Std. Deviation		13.05544	
	Minimum		19.00	
	Maximum		63.00	
	Range		44.00	
	Interquartile Range		17.00	
	Skewness		.796	.717
	Kurtosis		.790	1.400
Kontrol Pre Orient	Mean		38.6667	6.73919
	95% Confidence Interval for Mean	Lower Bound	23.1261	
		Upper Bound	54.2073	
	5% Trimmed Mean		37.6296	
	Median		36.0000	
	Variance		408.750	
	Std. Deviation		20.21757	
	Minimum		18.00	
	Maximum		78.00	
	Range		60.00	
	Interquartile Range		30.00	
	Skewness		1.136	.717
	Kurtosis		.470	1.400
Kontrol Pre Conflict	Mean		113.7778	14.15958
	95% Confidence Interval for Mean	Lower Bound	81.1257	
		Upper Bound	146.4298	
	5% Trimmed Mean		114.1975	
	Median		114.0000	
	Variance		1804.444	
	Std. Deviation		42.47875	

	Minimum		52.00	
	Maximum		168.00	
	Range		116.00	
	Interquartile Range		83.50	
	Skewness		.058	.717
	Kurtosis		-1.536	1.400
Kontrol Post Alert	Mean		26.2222	5.28829
	95% Confidence Interval for Mean	Lower Bound	14.0274	
		Upper Bound	38.4170	
	5% Trimmed Mean		26.5802	
	Median		31.0000	
	Variance		251.694	
	Std. Deviation		15.86488	
	Minimum		.00	
	Maximum		46.00	
	Range		46.00	
	Interquartile Range		28.50	
	Skewness		-.362	.717
	Kurtosis		-1.075	1.400
Kontrol Post Orient	Mean		32.8889	5.77217
	95% Confidence Interval for Mean	Lower Bound	19.5783	
		Upper Bound	46.1995	
	5% Trimmed Mean		32.0432	
	Median		26.0000	
	Variance		299.861	
	Std. Deviation		17.31650	
	Minimum		16.00	
	Maximum		65.00	
	Range		49.00	
	Interquartile Range		21.50	
	Skewness		1.390	.717
	Kurtosis		.552	1.400
Kontrol Post Conflict	Mean		114.8889	13.67321
	95% Confidence Interval for Mean	Lower Bound	83.3584	
		Upper Bound	146.4194	
	5% Trimmed Mean		113.7654	
	Median		114.0000	

	Variance		1682.611	
	Std. Deviation		41.01964	
	Minimum		65.00	
	Maximum		185.00	
	Range		120.00	
	Interquartile Range		70.50	
	Skewness		.413	.717
	Kurtosis		-.722	1.400
P1 Pre Alert	Mean		29.3333	4.55217
	95% Confidence Interval for Mean	Lower Bound	18.8360	
		Upper Bound	39.8306	
	5% Trimmed Mean		29.2037	
	Median		29.0000	
	Variance		186.500	
	Std. Deviation		13.65650	
	Minimum		12.00	
	Maximum		49.00	
	Range		37.00	
	Interquartile Range		27.00	
	Skewness		-.051	.717
	Kurtosis		-1.494	1.400
P1 Pre Orient	Mean		32.1111	6.80981
	95% Confidence Interval for Mean	Lower Bound	16.4077	
		Upper Bound	47.8146	
	5% Trimmed Mean		32.2346	
	Median		36.0000	
	Variance		417.361	
	Std. Deviation		20.42942	
	Minimum		.00	
	Maximum		62.00	
	Range		62.00	
	Interquartile Range		33.50	
	Skewness		-.390	.717
	Kurtosis		-.542	1.400
P1 Pre Conflict	Mean		112.0000	9.77241
	95% Confidence Interval for Mean	Lower Bound	89.4648	
		Upper Bound	134.5352	

	5% Trimmed Mean		111.8333	
	Median		115.0000	
	Variance		859.500	
	Std. Deviation		29.31723	
	Minimum		69.00	
	Maximum		158.00	
	Range		89.00	
	Interquartile Range		50.00	
	Skewness		.021	.717
	Kurtosis		-.959	1.400
P1 Post Alert	Mean		35.8889	3.99807
	95% Confidence Interval for Mean	Lower Bound	26.6693	
		Upper Bound	45.1085	
	5% Trimmed Mean		35.7099	
	Median		33.0000	
	Variance		143.861	
	Std. Deviation		11.99421	
	Minimum		21.00	
	Maximum		54.00	
	Range		33.00	
	Interquartile Range		21.50	
	Skewness		.425	.717
	Kurtosis		-1.274	1.400
P1 Post Orient	Mean		34.1111	4.65905
	95% Confidence Interval for Mean	Lower Bound	23.3673	
		Upper Bound	44.8549	
	5% Trimmed Mean		34.1235	
	Median		31.0000	
	Variance		195.361	
	Std. Deviation		13.97716	
	Minimum		11.00	
	Maximum		57.00	
	Range		46.00	
	Interquartile Range		21.00	
	Skewness		.070	.717
	Kurtosis		-.151	1.400
P1 Post Conflict	Mean		109.4444	10.53448

	95% Confidence Interval for Mean	Lower Bound	85.1519	
		Upper Bound	133.7370	
	5% Trimmed Mean		109.7716	
	Median		107.0000	
	Variance		998.778	
	Std. Deviation		31.60345	
	Minimum		61.00	
	Maximum		152.00	
	Range		91.00	
	Interquartile Range		58.50	
	Skewness		.021	.717
	Kurtosis		-1.298	1.400
P2 Pre Alert	Mean		29.8889	6.39324
	95% Confidence Interval for Mean	Lower Bound	15.1461	
		Upper Bound	44.6317	
	5% Trimmed Mean		29.2654	
	Median		30.0000	
	Variance		367.861	
	Std. Deviation		19.17971	
	Minimum		7.00	
	Maximum		64.00	
	Range		57.00	
	Interquartile Range		32.00	
	Skewness		.568	.717
	Kurtosis		-.476	1.400
P2 Pre Orient	Mean		33.8889	4.31871
	95% Confidence Interval for Mean	Lower Bound	23.9299	
		Upper Bound	43.8478	
	5% Trimmed Mean		33.8765	
	Median		37.0000	
	Variance		167.861	
	Std. Deviation		12.95612	
	Minimum		13.00	
	Maximum		55.00	
	Range		42.00	
	Interquartile Range		19.50	
	Skewness		-.209	.717

	Kurtosis		-.153	1.400
P2 Pre Conflict	Mean		107.0000	6.96220
	95% Confidence Interval for Mean	Lower Bound	90.9451	
		Upper Bound	123.0549	
	5% Trimmed Mean		106.6667	
	Median		106.0000	
	Variance		436.250	
	Std. Deviation		20.88660	
	Minimum		78.00	
	Maximum		142.00	
	Range		64.00	
	Interquartile Range		35.50	
	Skewness		.111	.717
	Kurtosis		-.666	1.400
P2 Post Alert	Mean		30.2222	8.94858
	95% Confidence Interval for Mean	Lower Bound	9.5867	
		Upper Bound	50.8577	
	5% Trimmed Mean		29.0802	
	Median		26.0000	
	Variance		720.694	
	Std. Deviation		26.84575	
	Minimum		.00	
	Maximum		81.00	
	Range		81.00	
	Interquartile Range		46.00	
	Skewness		.752	.717
	Kurtosis		.001	1.400
P2 Post Orient	Mean		37.1111	7.93453
	95% Confidence Interval for Mean	Lower Bound	18.8140	
		Upper Bound	55.4082	
	5% Trimmed Mean		36.4568	
	Median		32.0000	
	Variance		566.611	
	Std. Deviation		23.80359	
	Minimum		11.00	
	Maximum		75.00	
	Range		64.00	

	Interquartile Range		44.00	
	Skewness		.790	.717
	Kurtosis		-.772	1.400
P2 Post Conflict	Mean		88.8889	4.10096
	95% Confidence Interval for Mean	Lower Bound	79.4321	
		Upper Bound	98.3457	
	5% Trimmed Mean		88.7099	
	Median		86.0000	
	Variance		151.361	
	Std. Deviation		12.30289	
	Minimum		70.00	
	Maximum		111.00	
	Range		41.00	
	Interquartile Range		14.50	
	Skewness		.659	.717
	Kurtosis		.543	1.400
P3PreAlert	Mean		42.5556	11.73801
	95% Confidence Interval for Mean	Lower Bound	15.4877	
		Upper Bound	69.6235	
	5% Trimmed Mean		40.1728	
	Median		38.0000	
	Variance		1240.028	
	Std. Deviation		35.21403	
	Minimum		8.00	
	Maximum		120.00	
	Range		112.00	
	Interquartile Range		48.00	
	Skewness		1.317	.717
	Kurtosis		2.380	1.400
P3PreOrient	Mean		32.2222	5.84470
	95% Confidence Interval for Mean	Lower Bound	18.7443	
		Upper Bound	45.7001	
	5% Trimmed Mean		31.9136	
	Median		31.0000	
	Variance		307.444	
	Std. Deviation		17.53409	
	Minimum		2.00	

	Maximum		68.00	
	Range		66.00	
	Interquartile Range		15.00	
	Skewness		.550	.717
	Kurtosis		2.500	1.400
P3 Pre Conflict	Mean		126.2222	10.90461
	95% Confidence Interval for Mean	Lower Bound	101.0761	
		Upper Bound	151.3683	
	5% Trimmed Mean		124.8025	
	Median		118.0000	
	Variance		1070.194	
	Std. Deviation		32.71383	
	Minimum		84.00	
	Maximum		194.00	
	Range		110.00	
	Interquartile Range		41.50	
	Skewness		1.063	.717
	Kurtosis		1.435	1.400
P3 Post Alert	Mean		43.2222	7.66808
	95% Confidence Interval for Mean	Lower Bound	25.5396	
		Upper Bound	60.9048	
	5% Trimmed Mean		42.0247	
	Median		35.0000	
	Variance		529.194	
	Std. Deviation		23.00423	
	Minimum		23.00	
	Maximum		85.00	
	Range		62.00	
	Interquartile Range		40.00	
	Skewness		.980	.717
	Kurtosis		-.628	1.400
P3 Post Orient	Mean		29.6667	5.77591
	95% Confidence Interval for Mean	Lower Bound	16.3474	
		Upper Bound	42.9859	
	5% Trimmed Mean		29.0741	
	Median		29.0000	
	Variance		300.250	

	Std. Deviation		17.32772	
	Minimum		10.00	
	Maximum		60.00	
	Range		50.00	
	Interquartile Range		30.00	
	Skewness		.470	.717
	Kurtosis		-.868	1.400
P3 Post Conflict	Mean		120.4444	15.20335
	95% Confidence Interval for Mean	Lower Bound	85.3854	
		Upper Bound	155.5034	
	5% Trimmed Mean		116.4938	
	Median		104.0000	
	Variance		2080.278	
	Std. Deviation		45.61006	
	Minimum		86.00	
	Maximum		226.00	
	Range		140.00	
	Interquartile Range		48.50	
	Skewness		1.872	.717
	Kurtosis		3.475	1.400

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Kontrol Pre Alert	.221	9	.200*	.943	9	.612
Kontrol Pre Orient	.232	9	.178	.878	9	.150
Kontrol Pre Conflict	.200	9	.200*	.915	9	.352
Kontrol Post Alert	.174	9	.200*	.947	9	.662
Kontrol Post Orient	.367	9	.001	.757	9	.006
Kontrol Post Conflict	.125	9	.200*	.951	9	.699
P1 Pre Alert	.150	9	.200*	.928	9	.465
P1 Pre Orient	.142	9	.200*	.953	9	.720
P1 Pre Conflict	.146	9	.200*	.972	9	.909
P1 Post Alert	.189	9	.200*	.925	9	.431
P1 Post Orient	.144	9	.200*	.986	9	.987
P1 Post Conflict	.182	9	.200*	.939	9	.568
P2 Pre Alert	.141	9	.200*	.950	9	.686
P2 Pre Orient	.150	9	.200*	.969	9	.890
P2 Pre Conflict	.112	9	.200*	.966	9	.856
P2 Post Alert	.170	9	.200*	.934	9	.522
P2 Post Orient	.202	9	.200*	.879	9	.154
P2 Post Conflict	.274	9	.050	.908	9	.304
P3 Pre Alert	.199	9	.200*	.861	9	.099
P3 Pre Orient	.192	9	.200*	.921	9	.404
P3 Pre Conflict	.266	9	.066	.914	9	.349
P3 Post Alert	.290	9	.028	.818	9	.033
P3 Post Orient	.194	9	.200*	.927	9	.457
P3 PostConflict	.290	9	.028	.767	9	.008

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

a. Lilliefors Significance Correction

T-Test

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	Kontrol Pre Alert – Kontrol Post Alert	11.55556	15.15842	5.05281	-.09624	23.20735	2.287	8	.052
Pair 2	Kontrol Pre Conflict – Kontrol Post Conflict	-1.11111	18.00309	6.00103	-14.94951	12.72729	-.185	8	.858
Pair 3	P1 Pre Alert - P1 Post Alert	-6.55556	12.25878	4.08626	-15.97849	2.86738	-1.604	8	.147
Pair 4	P1 Pre Orient - P1 Post Orient	-2.00000	17.83956	5.94652	-15.71270	11.71270	-.336	8	.745
Pair 5	P1 Pre Conflict - P1 Post Conflict	2.55556	16.92713	5.64238	-10.45579	15.56690	.453	8	.663
Pair 6	P2 Pre Alert - P2 Post Alert	-.33333	20.54872	6.84957	-16.12848	15.46181	-.049	8	.962
Pair 7	P2 Pre Orient - P2 Post Orient	-3.22222	28.72620	9.57540	-25.30313	18.85869	-.337	8	.745
Pair 8	P2 Pre Conflict - P2 Post Conflict	18.11111	16.32823	5.44274	5.56012	30.66210	3.328	8	.010
Pair 9	P3 Pre Orient - P3 Post Orient	2.55556	15.94609	5.31536	-9.70169	14.81281	.481	8	.644

Test Statistics[a]

	Kontrol Post Orient – Kontrol Pre Orient	P3 Post Alert - P3 Pre Alert	P3 Post Conflict - P3 Pre Conflict
Z	-1.304[b]	-.415[c]	-1.245[b]
Asymp. Sig. (2-tailed)	.192	.678	.213

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

c. Based on negative ranks.

Explore

Descriptives

	Kelompok			Statistic	Std. Error
Selisih Alert	Kontrol	Mean		11.5556	5.05281
		95% Confidence Interval for Mean	Lower Bound	-.0962	
			Upper Bound	23.2074	
		5% Trimmed Mean		11.7284	
		Median		17.0000	
		Variance		229.778	
		Std. Deviation		15.15842	
		Minimum		-12.00	
		Maximum		32.00	
		Range		44.00	
		Interquartile Range		26.50	
		Skewness		-.543	.717
		Kurtosis		-1.076	1.400
	Perlakuan 1	Mean		-6.5556	4.08626
		95% Confidence Interval for Mean	Lower Bound	-15.9785	
			Upper Bound	2.8674	
		5% Trimmed Mean		-6.8395	
		Median		-11.0000	
		Variance		150.278	
		Std. Deviation		12.25878	
		Minimum		-21.00	
		Maximum		13.00	
		Range		34.00	
		Interquartile Range		21.00	
		Skewness		.758	.717
		Kurtosis		-.661	1.400
	Perlakuan 2	Mean		-.3333	6.84957
		95% Confidence Interval for Mean	Lower Bound	-16.1285	
			Upper Bound	15.4618	
		5% Trimmed Mean		.2407	
		Median		5.0000	
		Variance		422.250	

		Std. Deviation		20.54872	
		Minimum		-37.00	
		Maximum		26.00	
		Range		63.00	
		Interquartile Range		28.50	
		Skewness		-.952	.717
		Kurtosis		.153	1.400
	Perlakuan 3	Mean		-.6667	12.91640
		95% Confidence Interval for Mean	Lower Bound	-30.4519	
			Upper Bound	29.1186	
		5% Trimmed Mean		-2.4074	
		Median		-10.0000	
		Variance		1501.500	
		Std. Deviation		38.74919	
		Minimum		-54.00	
		Maximum		84.00	
		Range		138.00	
		Interquartile Range		40.00	
		Skewness		1.202	.717
		Kurtosis		2.624	1.400
Selisih Orient	Kontrol	Mean		5.7778	7.37070
		95% Confidence Interval for Mean	Lower Bound	-11.2191	
			Upper Bound	22.7746	
		5% Trimmed Mean		6.0309	
		Median		9.0000	
		Variance		488.944	
		Std. Deviation		22.11209	
		Minimum		-37.00	
		Maximum		44.00	
		Range		81.00	
		Interquartile Range		24.00	
		Skewness		-.363	.717
		Kurtosis		1.676	1.400
	Perlakuan 1	Mean		-2.0000	5.94652
		95% Confidence Interval for Mean	Lower Bound	-15.7127	
			Upper Bound	11.7127	

		5% Trimmed Mean		-.6667	
		Median		5.0000	
		Variance		318.250	
		Std. Deviation		17.83956	
		Minimum		-44.00	
		Maximum		16.00	
		Range		60.00	
		Interquartile Range		17.50	
		Skewness		-1.844	.717
		Kurtosis		4.068	1.400
	Perlakuan 2	Mean		-3.2222	9.57540
		95% Confidence Interval for Mean	Lower Bound	-25.3031	
			Upper Bound	18.8587	
		5% Trimmed Mean		-2.0247	
		Median		1.0000	
		Variance		825.194	
		Std. Deviation		28.72620	
		Minimum		-55.00	
		Maximum		27.00	
		Range		82.00	
		Interquartile Range		50.00	
		Skewness		-.733	.717
		Kurtosis		-.332	1.400
	Perlakuan 3	Mean		2.5556	5.31536
		95% Confidence Interval for Mean	Lower Bound	-9.7017	
			Upper Bound	14.8128	
		5% Trimmed Mean		2.8395	
		Median		.0000	
		Variance		254.278	
		Std. Deviation		15.94609	
		Minimum		-24.00	
		Maximum		24.00	
		Range		48.00	
		Interquartile Range		26.50	
		Skewness		-.345	.717
		Kurtosis		-.690	1.400
Selisih	Kontrol	Mean		-1.1111	6.00103

Conflict		95% Confidence Interval for Mean	Lower Bound	-14.9495	
			Upper Bound	12.7273	
		5% Trimmed Mean		-1.6235	
		Median		.0000	
		Variance		324.111	
		Std. Deviation		18.00309	
		Minimum		-24.00	
		Maximum		31.00	
		Range		55.00	
		Interquartile Range		29.00	
		Skewness		.372	.717
		Kurtosis		-.507	1.400
	Perlakuan1	Mean		2.5556	5.64238
		95% Confidence Interval for Mean	Lower Bound	-10.4558	
			Upper Bound	15.5669	
		5% Trimmed Mean		2.8951	
		Median		-1.0000	
		Variance		286.528	
		Std. Deviation		16.92713	
		Minimum		-26.00	
		Maximum		25.00	
		Range		51.00	
		Interquartile Range		27.50	
		Skewness		-.312	.717
		Kurtosis		-.650	1.400
	Perlakuan 2	Mean		18.1111	5.44274
		95% Confidence Interval for Mean	Lower Bound	5.5601	
			Upper Bound	30.6621	
		5% Trimmed Mean		18.4568	
		Median		15.0000	
		Variance		266.611	
		Std. Deviation		16.32823	
		Minimum		-8.00	
		Maximum		38.00	
		Range		46.00	

		Interquartile Range	30.50	
		Skewness	.052	.717
		Kurtosis	-1.018	1.400
	Perlakuan 3	Mean	5.7778	10.84202
		95% Confidence Interval for Mean — Lower Bound	-19.2240	
		95% Confidence Interval for Mean — Upper Bound	30.7795	
		5% Trimmed Mean	8.4198	
		Median	14.0000	
		Variance	1057.944	
		Std. Deviation	32.52606	
		Minimum	-72.00	
		Maximum	36.00	
		Range	108.00	
		Interquartile Range	31.50	
		Skewness	-1.965	.717
		Kurtosis	4.538	1.400

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	kelompok	Statistic	df	Sig.	Statistic	df	Sig.
Selisih Alert	Kontrol	.257	9	.090	.901	9	.257
	Perlakuan1	.197	9	.200*	.892	9	.211
	Perlakuan 2	.250	9	.110	.881	9	.162
	Perlakuan 3	.177	9	.200*	.915	9	.354
Selisih Orient	Kontrol	.207	9	.200*	.941	9	.590
	Perlakuan 1	.211	9	.200*	.824	9	.038
	Perlakuan 2	.162	9	.200*	.910	9	.313
	Perlakuan 3	.124	9	.200*	.963	9	.825
Selisih Conflict	Kontrol	.138	9	.200*	.951	9	.698
	Perlakuan 1	.149	9	.200*	.958	9	.774

Perlakuan 2	.210	9	.200*	.900	9	.250
Perlakuan 3	.218	9	.200*	.800	9	.020

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

a. Lilliefors Significance Correction

Oneway

Descriptives

Selisih Alert

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol	9	11.5556	15.15842	5.05281	-.0962	23.2074	-12.00	32.00
Perlakuan 1	9	-6.5556	12.25878	4.08626	-15.9785	2.8674	-21.00	13.00
Perlakuan 2	9	-.3333	20.54872	6.84957	-16.1285	15.4618	-37.00	26.00
Perlakuan 3	9	-.6667	38.74919	12.91640	-30.4519	29.1186	-54.00	84.00
Total	36	1.0000	23.89740	3.98290	-7.0857	9.0857	-54.00	84.00

ANOVA

Selisih Alert

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1557.556	3	519.185	.901	.451
Within Groups	18430.444	32	575.951		
Total	19988.000	35			

Lampiran 7. Dokumentasi

Lampiran 8. Biodata Mahasiswa

Identitas

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Riwayat Pendidikan Formal

1. SD : SD Negeri Ngesrep 02 Semarang	Lulus tahun : 2004
2. SMP: SMP Negeri 21 Semarang	Lulus tahun : 2007
3. SMA: SMA Negeri 3 Semarang	Lulus tahun : 2010
4. S1 : Fakultas Kedokteran Universitas Diponegoro	Masuk tahun: 2010