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**FAKULTAS ILMU KEPERAWATAN  
PROGRAM STUDI MAGISTER ILMU KEPERAWATAN  
UNIVERSITAS HASANUDDIN MAKASSAR**  
Kemerdekaan Km 10 Makassar 90245 Fakultas Ilmu Keperawatan

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**Lampiran 1**

**PERMOHONAN MENJADI RESPONDEN**

Kepada

Calon Responden:

Saya yang bertanda tangan di bawah ini:

Nama : **Amri Rahman, S.Kep., Ns**

NIM : R012221018

Pekerjaan : Mahasiswa Program Studi Magister Ilmu Keperawatan  
Fakultas Keperawatan Universitas Hasanuddin

Bermaksud akan mengadakan penelitian dengan judul “**Efektivitas *Head Of Bed Elevation (HOBE)* terhadap kadar PaO<sub>2</sub> dan saturasi oksigen pada pasien ventilasi mekanik di RSUD Bumi Panua Kabupaten Pohuwato Gorontalo**”.

. Penelitian ini bertujuan untuk mengetahui efektivitas *Head Of Bed Elevation (HOBE)* terhadap peningkatan kadar PaO<sub>2</sub> dan saturasi oksigen pada pasien yang terpasang ventilasi mekanik di RSUD Bumi Panua Kabupaten Pohuwato Gorontalo.

Penelitian ini tidak akan menimbulkan akibat yang merugikan bagi anda sebagai responden maupun keluarga. Kerahasiaan semua informasi akan dijaga dan dipergunakan untuk kepentingan penelitian. Jika anda tidak bersedia menjadi responden, maka tidak ada ancaman bagi anda maupun keluarga. Jika anda bersedia menjadi responden, makasaya mohon kesediaan untuk menandatangani lembar persetujuan yang saya lampirkan dan menjawab pertanyaan-pertanyaan yang saya sertakan. Atas perhatian dan kesediaannya menjadi responden saya ucapkan terima kasih.

Makassar, september 2023

Hormat Saya

**Amri Rahman, S.Kep., Ns**



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**Lampiran 2**

**Persetujuan Menjadi Responden**

Saya yang bertandatangan di bawah ini :

No. Responden : .....

Umur : .....

Jenis kelamin : .....

Alamat :

.....

Setelah mendengar/ membaca penjelasan maksud dan tujuan penelitian ini, maka saya bersedia untuk berpartisipasi sebagai responden dalam penelitian yang dilakukan oleh saudari **Amri Rahman, S.Kep., Ns**, Mahasiswa Program Studi Magister Ilmu Keperawatan Fakultas Keperawatan UNHAS dengan Judul **“Efektivitas *Head Of Bed Elevation (HOBE)* terhadap kadar PaO<sub>2</sub> dan saturasi oksigen pada pasien ventilasi mekanik di RSUD Bumi Panua Kabupaten Pohuwato Gorontalo”**.

Saya mengerti bahwa saya akan terlibat dalam mengisi lembar kuesioner penelitian. Saya bersedia menjadi responden bukan karena adanya paksaan dari pihak lain, namun karena keinginan sendiri dan tanpa biaya yang akan ditanggungkan kepada saya sesuai dengan penjelasan yang sudah dijelaskan oleh peneliti.

Hasil yang diperoleh dari saya sebagai responden dapat dipublikasikan sebagai hasil dari penelitian dan akan diseminarkan pada ujian hasil dengan tidak akan mencantumkan nama, kecuali nomor informan.

	Inisial Nama	Tanda Tangan	Tgl/Bln/Thn
Responden	_____	_____	_____

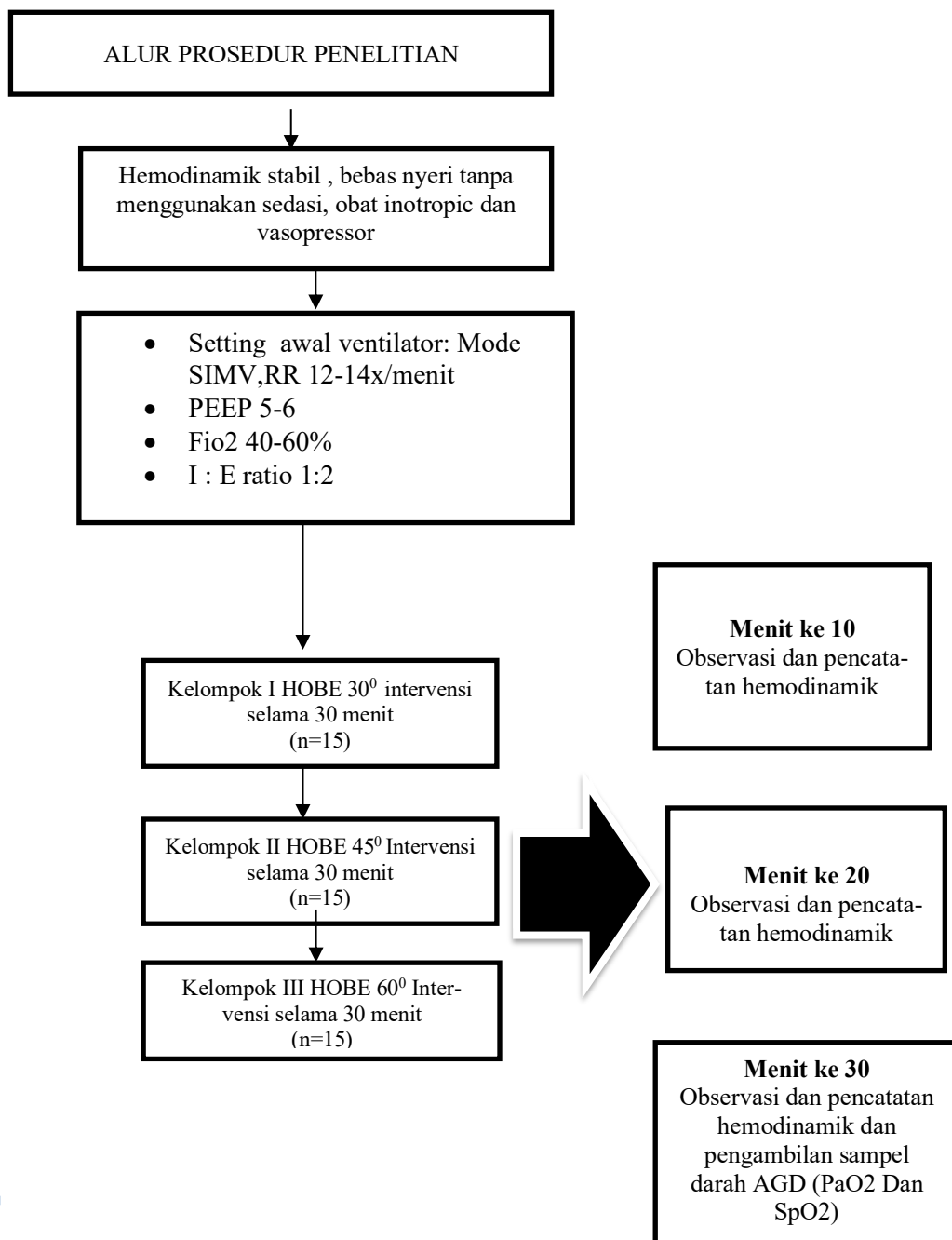
	Inisial Nama	Tanda Tangan	Tgl/Bln/Thn
Saksi	_____	_____	_____

**Penanggung Jawab Penelitian :**

**Amri Rahman, S.Kep., Ns**

<b>Standar Operasional Prosedur (SPO)</b>	
<b>HOBE</b>	
<b>Pengertian</b>	Posisi HOBE adalah cara memposisikan kepala seseorang lebih tinggi derajat dari tempat tidur.
<b>Tujuan</b>	Untuk meningkatkan status oksigenasi
<b>Alat dan bahan</b>	<ol style="list-style-type: none"> <li>1. Handscoen</li> <li>2. Handrub</li> <li>3. <i>Sotamak bed</i> dengan indikator elevasi</li> </ol>
<b>Persiapan Pasien</b>	<ol style="list-style-type: none"> <li>1. Cek catatan keperawatan dan catatan medis pasien (indikasi/instruksi,dokter,kontraindikasi hal lain yang diperlukan)</li> <li>2. Cuci tangan</li> </ol>
<b>Pra interaksi</b>	<ol style="list-style-type: none"> <li>1. Beri salam, panggil pasien dengan namanya dan memperkenalkan diri.</li> <li>2. Jelaskan tujuan, prosedur, hal yang perlu dilakukan pasien.</li> <li>3. Berikan kesempatan kepada keluarga bertanya sebelum kegiatan dilakukan</li> </ol>
<b>Prosedur kerja</b>	<ol style="list-style-type: none"> <li>1. Jaga privacy pasien.</li> <li>2. Cuci tangan dan gunakan sarung tangan</li> <li>3. Pasang pengaman pada tempat tidur pasien</li> <li>4. Memeriksa tanda – tanda vital awal pasien</li> <li>5. Atur posisi kepala pasien lebih sesuai derajat yang ditentukan dengan posisi tubuh sejajar dan kaki lurus atau tidak menekuk</li> <li>6. Memberikan posisi kepala flat dengan cara membaringkan pasien sejajar dengan tempat tidur kepala pada posisi sejajar dengan badan selama 30 menit</li> <li>7. Memeriksa tanda-tanda vital</li> </ol>

	8. Lakukan tindakan pemberian posisi kepala sesuai jadwal yang telah ditentukan.
<b>Terminasi</b>	<ol style="list-style-type: none"><li>1. Evaluasi perasaan pasien, simpulkan hasil kegiatan, berikan umpan balik positif</li><li>2. Cuci tangan</li><li>3. Catat pada lembar observasi</li></ol>



Lampiran 4

**LEMBAR OBSERVASI TINDAKAN INTERVENSI HOBE**

**NAMA / INISIAL :**

**Hari / tanggal :**

**TANGGAL LAHIR :**

**Tanggal Masuk :**

**JENIS KELAMIN :**

**NO REKAM MEDIK :**

**DIAGNOSA MEDIS :**

**KODE INTERVENSI HOBE : R1      R2      R3**

*(lingkari kode intervensi)*

<b>TANDA-TANDA VITAL</b>	<b>Pre test sebelum intervensi Hari/ tanggal : Pukul :</b>	<b>Observasi Hemodinamik 10 menit pertama intervensi</b>	<b>Observasi Hemodinamik 10 menit kedua intervensi</b>	<b>Observasi Hemodinamik 10 menit ke tiga intervensi</b>	<b>Post test intervensi</b>
<i>Blood Pressure (BP)</i>					
<i>Heart Rate (HR)</i>					
<i>Respiratory rate (RR)</i>					



Suhu badan						
SPO2						
Glasgow coma scale (GCS)						
Nyeri		Tidak dilakukan pemeriksaan	Tidak dilakukan Pemeriksaan			
<b>Hasil AGD</b>						
PH						
PCO2						
HCO3						
PaO2						
SaO2						
Hb						
<b>Jenis obat yang digunakan</b>						
<b>Mode Ventilator</b>						

<b>RR</b>					
<b>FIO2</b>					
<b>I : E ratio</b>					
<b>PEEP</b>					
<b>Tidal Volume</b>					

## LAMPIRAN MASTER TABEL PENELITIAN

No	Umur (Tahun)	Jenis Kelamin	Diagnosa medis	Jenis HOB (Derajat)	Pre_Sistol	Pre_Diastol	Pre_HR (v/min)	Pre_RR (v/min)	Pre_Suhu Badan	Pre_SPO2 %	Pre_GCS	Pre_Skalah Nyeri	Pre_PH	Pre_PCO2	Pre_HCO3	Pre_PaO2	Pre_SaO2 (mmol/L)	Pre_Hb (g/dl)	Pre_Made Ventilator	Pre_RR	Pre_FIO2 %	Pre_I:E Ratio	Pre_PEEP	Pre_Tidal Volume	Post_Sistol	Post_Diastol	Post_HR (v/min)	Post_RR (v/min)	Post_Suhu Badan	Post_SPO2 %	Post_GCS	Post_Skalah Nyeri	Post_PH	Post_PCO2	Post_HCO3	Post_PaO2	Post_SaO2 (mmol/L)	Post_RR	Post_FIO2 %	Post_I:E Ratio	Post_PEEP	Post_Tidal Volume
1	62	1	5	1	110	65	120	20	37.2	98	3	1	7.18	69.7	26	170	98	11.7	3	14	60	3	5	330	118	67	119	22	37.3	100	3	1	7.27	54.8	25.3	178	99	14	60	3	5	330
2	46	1	5	1	155	104	124	26	37.2	94	4	1	7.22	50	20.6	120	98	11.8	3	16	40	3	6	420	160	90	118	24	37.4	96	4	1	7.3	45.4	22.8	79	99	16	40	3	6	420
3	51	2	5	1	118	83	114	27	36.9	98	3	1	7.27	45	20	42.4	98	11.9	3	14	60	3	5	360	131	92	117	29	37.3	100	3	1	7.34	36.9	19.9	98	100	14	50	3	5	360
4	60	2	3	1	126	75	78	22	37.4	97	4	1	7.43	55	22	69	98	12.8	3	14	60	3	5	360	124	92	79	22	37.2	98	4	1	7.43	53.4	25	69	100	14	60	3	5	360
5	52	2	6	1	168	102	98	24	37.3	95	4	1	7.44	49	25	87	96	13.4	3	14	60	3	5	420	166	99	97	24	37.3	95	4	1	7.44	48	25	87	97	16	60	3	5	420
6	28	2	4	1	118	77	104	26	38.4	94	3	1	7.44	44.3	28	69	93	11.7	3	16	60	3	6	360	118	88	104	26	38.3	94	3	1	7.44	44	28	69	94	16	40	3	6	360
7	58	2	2	1	112	87	112	28	39.1	95	3	1	7.38	52.4	16	99.4	94	10.8	3	16	60	3	6	420	112	87	112	28	39	94	3	1	7.38	52.3	17	99	93	16	40	3	6	420
8	54	1	5	1	134	87	117	20	38.4	97	4	1	7.53	32	16	89	98	11.7	3	14	40	3	5	360	133	87	118	20	38.3	97	4	1	7.54	33	17	89	97	16	40	3	5	360
9	52	1	4	1	143	89	109	22	36.7	97	3	1	7.29	49	12.9	87.4	96	13.3	3	16	50	4	5	360	164	102	98	20	36.8	97	3	1	7.27	50	13	78	98	16	50	4	5	360
10	57	1	7	1	134	79	98	24	37.9	97	4	1	7.21	49	25.3	89	96	11.9	3	16	60	6	5	420	124	66	96	23	38.1	97	4	1	7.21	49	25.3	89	97	14	50	5	5	400
11	44	2	6	1	156	98	100	22	36.6	98	3	1	7.64	29	16	69	96	13.6	3	16	60	7	5	420	143	98	88	18	36.7	98	3	1	7.63	26	16.1	84	98	14	60	8	5	320
12	29	2	5	1	121	74	92	22	37.2	95	4	1	7.26	66	15.2	87.9	95	14.5	3	16	60	4	6	300	116	76	74	24	36.3	96	5	1	7.29	62	15.7	93.4	97	16	40	3	5	420
13	37	1	4	1	118	76	77	24	36.3	96	5	1	7.35	46.3	20.7	91	96	10.9	2	16	40	3	5	420	109	71	66	26	36.4	97	3	1	7.37	46.3	20.4	88	96	16	60	3	6	300
14	54	1	1	1	112	77	89	22	37.1	97	5	1	7.46	44	24	88.2	98	12.2	1	14	40	3	5	420	134	79	102	19	36	97	5	1	7.47	46	22.6	84.1	97	14	60	3	5	400
15	41	1	4	1	134	79	102	19	36	97	5	1	7.28	54.9	16.9	109	97	10.7	3	16	60	3	5	400	132	78	102	19	36	97	5	1	7.31	36.2	17	107	96	16	60	4	6	400
16	49	2	3	2	107	88	117	26	37.7	97	3	1	7.32	44.4	23.2	249	100	13.3	3	16	40	3	5	420	109	66	115	26	37.6	98	3	1	7.47	44.1	23.2	249	100	16	40	3	5	420
17	62	1	2	2	118	75	131	26	36.6	99	1	1	7.47	40.2	29.3	155	97	12.2	1	14	50	3	6	443	139	86	126	23	36.6	100	1	1	7.48	37.8	28.7	81	100	14	50	3	6	443
18	48	2	4	2	112	63	137	20	38	97	4	1	6.87	67.2	12.3	181	98	19.4	3	14	60	3	5	300	112	64	136	18	37.9	99	4	1	6.94	63.8	13.8	196	99	14	60	3	5	300
19	70	2	3	2	137	78	128	26	37.9	97	3	1	7.31	53.4	26.7	66	98	13.3	3	14	60	3	5	360	136	98	129	26	37.8	99	3	1	7.26	64	29	87	99	14	60	3	5	360
20	44	2	5	2	121	77	87	22	37.6	98	6	1	7.38	47	28	98	98	12.1	1	14	60	3	5	420	127	87	89	24	37.7	99	6	1	7.38	44	28	102	98	14	60	3	5	420
21	54	1	4	2	134	77	85	22	37.2	98	6	1	7.47	33	22	102	97	11.8	2	16	60	3	5	360	134	78	86	22	37.2	98	6	1	7.47	33	25	104	98	16	60	3	5	360
22	59	1	3	2	119	88	119	22	37.3	97	3	1	7.29	52	16	83	98	12.9	3	16	60	3	5	420	118	89	121	22	37.2	97	3	1	7.29	52	16	84.5	98	16	60	3	5	420
23	57	2	4	2	121	77	109	22	36.7	96	3	1	7.37	53	16	92	98	14.3	3	16	60	3	5	360	124	79	110	23	36.8	98	3	1	7.37	53	16	102	98	16	60	3	5	360
24	42	2	5	2	119	76	98	26	37.6	97	4	1	7.44	30	24	67	98	12.7	3	16	50	4	5	360	120	96	95	26	37.5	97	4	1	7.44	30	24	78	98	16	50	4	5	360
25	59	1	4	2	126	97	76	24	37.9	96	3	1	7.23	57	10	119	97	10.3	3	16	60	3	5	360	152	98	76	24	37.8	96	3	1	7.22	57	9	77	97	16	60	3	5	360
26	39	1	5	2	143	98	108	18	39.1	95	4	1	7.39	53.6	16.6	78	96	12.9	1	14	60	4	6	420	112	87	102	18	39.4	95	4	1	7.37	53.6	17.1	84	96	14	60	4	6	420
27	59	1	5	2	117	78	66	21	37.3	95	3	1	7.05	59	24	78	94	14.5	3	16	50	5	5	320	139	82	67	22	37.2	95	3	1	7.09	59	24	84	97	16	50	5	5	320
28	43	1	5	2	124	66	96	23	38.1	97	4	1	7.58	30	27	89	97	12.4	2	14	50	5	5	400	132	97	102	22	36.6	98	3	1	7.58	33	27	89	96	16	60	7	5	420
29	22	1	5	2	108	77	76	26	36	94	5	1	7.11	57	24.2	84.6	95	15.4	1	16	60	4	5	360	121	73	92	22	37.2	95	4	1	7.1	49	24.2	109	96	16	60	4	6	300
30	59	1	3	2	109	69	68	26	36.4	97	3	1	7.57	33	10	106.9	98	11	3	16	60	3	6	300	110	78	88	22	37.1	97	5	1	7.55	34.3	10	112.9	98	14	40	3	5	420
31	20	1	2	3	100	63	63	18	36.7	94	3	1	7.61	53.1	6.9	99	94	14.3	3	15	40%	3	5	360	117	69	73	20	36.6	97	3	1	7.6	51	6.4	105	97	15	40	3	5	360
32	19	1	2	3	114	52	125	30	37.9	97	4	1	7.05	74	21	71	85	10.5	1	16	40	1	5	420	107	49	122	30	37.8	98	4	1	7.05	77.4	21.4	44	58	16	40	1	5	420
33	40	2	7	3	158	79	126	20	37.5	93	4	1	7.56	40.7	36.8	91	98	10.8	1	20	60	1	6	330	118	79	120	20	37.6	94	4	1	7.48	50.6	38.1	49	86	20	60	1	6	330
34	64	2	3	3	112	96	123	20	37.2	97	2	1	7.31	39.7	23.4	180	100	15.3	3	20	60	2	6	360	115	95	118	23	37.3	98	2	1	7.3	47.5	23.8	127	99	20	60	2	6	360
35	61	2	5	3	159	103	102	26	36.9	96	3	1	7.34	34.2	29.9	299	100	10.5	2	14	50	4	5	270	142	97	110	24	36.9	98	3	1	7.27	37.1	17.2	230	100	14	50	4	5	270
36	59	1	3	3	86	59	95	19	37.3	95	2	1	7.15	56.2	20	163	99	10.5	3	20	60	3	5	340	104	67	86	22	37.4	100	2	1	6.93	90	19.2	56	66	20	60	3	5	340
37	42	1	5	3	104	62	85	31	38.2	89	3	1	7.3	67.3	29	73.1	92	11.7	3	16	60	3	5	420	116	87	90	31	38.3	94	3	1	7.3	67	22	112	93	14	60	3	5	420
38	22	1	5	3	120	75	101	22	36.9	95	5	1	7.55	53.2	24	76	96	12.9	1	16	60	3	5	420	124	98	103	25	36.9	97</												

No/Alat	Instal	Umur dan dalam	Jenis Kel	Diagnosa Medis	Jenis HOB	(Dalam derajat)	Pre_Sistol	Pre_Diastol	Pre_HR (b)	Pre_RR (b)	Pre_Suhu (b)	Pre_SPO2 (%)	Pre_GCS	Pre_Skala	Pre_PH	Pre_PCO2	Pre_HCO3	Pre_PaO2	Pre_SaO2	Pre_Hb (gr)	Pre_Mode Ventilator	Pre_RR	Pre_FIO2 (%)	Pre_Et Ra	Pre_PEEP	Pre_Tidal Vol	Post_Sistol	Post_Diastol	Post_HR (b)	Post_RR (b)	Post_Suhu	Post_SPO2	Post_GCS	Post_Skala	Post_PH	Post_PCO2	Post_HCO3	Post_PaO2	Post_SaO2	Post_RR	Post_FIO2 (%)	Post_Et Ra	Post_PEEP	Post_Tidal Volume
44	Ta.IK	54	Laki-laki	Gagal Nafas c.c Kardiovask Sirk + Hipokalemia	30	112	77	89	22	37,1	97	9c	BPS 3	7,46	44	24	84,2	98	12,2	SIMV-PS	14	40	1,2	5	420	134	79	102	19	36	97	9c	BPS 3	7,47	46	22,6	84,1	97	14	60	1,2	5	400	
6	Ta.RG	19	Laki-laki	Gagal Nafas c.c Atekt Kiri Injury + Sepsis	60	114	52	125	30	37,9	97	8X	BPS 3	7,05	74	21	71	85	10,5	SIMV-PS	16	40	1,1	5	420	107	49	122	30	37,8	98	8X	BPS 3	7,05	77,4	21,4	44	58	16	40	1,1	5	420	
31	Ny.DO	44	Perempuan	Gagal nafas c.c Kardiostosis metastolik DM Type II	60	109	67	78	19	37,2	98	8X	BPS 3	7,21	66,7	29	55	97	16	SIMV-Volume	16	40	1,1,5	6	360	112	69	78	19	37,3	98	8X	BPS 3	7,19	66,7	29	67	98	16	40	1,1,5	6	360	
5	Ta.AD	62	Laki-laki	Gagal Nafas c.c Atekt Kiri Injury	45	118	75	131	26	36,6	99	5X	BPS 3	7,47	40,2	29,3	155	97	12,2	SIMV-PS	14	50	1,2	6	443	139	86	126	23	36,6	100	5x	BPS 3	7,48	37,8	28,7	81	100	14	50	1,2	6	443	
35	Ny.IS	62	Perempuan	Gagal nafas c.c CKD Stage V + Hipobalutemieria	60	109	67	72	22	37,4	94	7X	BPS 3	7,28	48	24	107	94	14,9	SIMV-Volume	16	60	1,4	5	420	111	74	74	26	37,7	97	7X	BPS 3	7,25	46	24	112	97	16	60	1,4	5	420	
22	Ny.ES	58	Perempuan	Gagal nafas c.c CKD Stage V + Hipokalemia	30	112	87	112	28	39,1	95	7x	BPS 3	7,38	52,4	16	94,4	94	10,8	SIMV-Volume	16	60	1,2	6	420	112	87	112	28	39	94	7X	BPS 3	7,38	52,3	17	59	93	16	40	1,2	6	420	
10	Ta.HA	59	Laki-laki	Gagal Nafas c.c CVD stroke Hemoragik + DM	60	86	59	95	19	37,3	95	6X	BPS 3	7,15	56,2	20	163	99	10,5	SIMV-Volume	20	60	1,2	5	340	104	67	86	22	37,4	100	6X	BPS 3	6,93	90	19,2	56	66	20	60	1,2	5	340	
16	Ny.AS	60	Perempuan	Gagal Nafas c.c CVD stroke Hemoragik + DM Type II	30	126	75	78	22	37,4	97	8X	BPS 3	7,43	55	22	69	98	12,8	SIMV-Volume	14	60	1,2	5	360	124	92	79	22	37,2	98	8x	BPS 3	7,43	53,4	25	69	100	14	60	1,2	5	360	
43	Ta.RK	59	Laki-laki	Gagal Nafas c.c CVD stroke Hemoragik + vertigo vesib	45	109	69	68	26	36,4	97	7X	BPS 3	7,57	33	10	106,9	98	11	SIMV-Volume	16	60	1,2	6	300	110	78	88	22	37,1	97	9x	BPS 3	7,55	34,3	10	112,9	98	14	40	1,2	5	420	
42	Ta.RD	37	Laki-laki	Gagal Nafas c.c Encephalopati Uremik	30	118	76	77	24	36,3	96	9c	BPS 3	7,25	46,3	20,7	91	96	10,9	SIMV-PSV	16	40	1,2	5	420	109	71	66	26	36,4	97	7X	BPS 3	7,27	46,3	20,4	88	96	16	60	1,2	6	300	
28	Ta.HS	59	Laki-laki	Gagal Nafas c.c Kardiostosis metastolik	45	128	97	76	24	37,9	96	7X	BPS 3	7,23	57	10	119	97	10,3	SIMV-Volume	16	60	1,2	5	360	152	98	76	24	37,8	96	7X	BPS 3	7,22	57	9	77	97	16	60	1,2	5	360	
21	Ny.WU	29	Perempuan	TX-AI HIT	30	118	77	104	26	38,4	94	7x	BPS 3	7,44	44,3	28	69	93	11,7	SIMV-Volume	16	60	1,2	6	360	118	88	104	26	38,3	94	7x	BPS 3	7,44	44	28	69	94	16	40	1,2	6	360	
30	Ta.HU	39	Laki-laki	Gagal Nafas c.c Perforasi Gaster + sepsis	45	143	98	108	18	36,9	96	8X	BPS 3	7,34	34,2	16,6	78	96	12,9	SIMV-PS	14	60	1,3	6	420	112	87	102	18	39,4	95	8X	BPS 3	7,37	33,6	17,1	84	96	14	60	1,3	6	420	
14	Ta.IB	42	Laki-laki	Gagal nafas c.c Perforasi Gaster + sepsis	60	104	62	85	31	38,2	89	7X	BPS 3	7,3	67,3	29	73,1	92	11,7	SIMV-Volume	16	60	1,2	5	420	116	87	90	31	38,3	94	7X	BPS 3	7,3	67	22	112	93	14	60	1,2	5	420	
18	Ny.MM	44	Perempuan	Gagal Nafas c.c Post Apendektomi perforasi	45	121	77	87	22	37,6	98	10c	BPS 3	7,38	47	28	98	98	12,1	SIMV-PS	14	60	1,2	5	420	127	87	89	24	37,7	99	10c	BPS 3	7,38	44	28	102	98	14	60	1,2	5	420	
39	Ny.PK	28	Perempuan	Gagal Nafas c.c Post Apendektomi perforasi	60	145	98	89	18	36,7	98	7X	BPS 3	7,05	67,6	20,1	79	97	14,5	SIMV-Volume	14	60	1,8	5	320	111	77	76	26	36	100	9c	BPS 3	7,09	60,1	20,2	79	97	16	60	1,3	5	360	
32	Ta.UK	59	Laki-laki	Gagal Nafas c.c Post Op Laparotomi Eksplorasi	45	117	78	66	21	37,3	95	7X	BPS 3	7,05	59	24	78	94	14,5	SIMV-Volume	16	50	1,4	5	320	139	82	67	22	37,2	95	7X	BPS 3	7,09	59	24	84	97	16	50	1,4	5	320	
37	Ta.FN	43	Laki-laki	Gagal Nafas c.c Post Op Laparotomi Eksplorasi	45	124	66	96	23	38,1	97	8X	BPS 3	7,58	30	27	89	97	12,4	SIMV-PSV	14	50	1,4	5	400	152	97	102	22	36,8	98	7X	BPS 3	7,58	33	27	89	96	16	60	1,7	5	420	
40	Ta.NR	22	Laki-laki	Gagal Nafas c.c Post Op Laparotomi Eksplorasi	45	108	77	76	26	36	94	9c	BPS 3	7,11	57	24,2	84,6	95	15,4	SIMV-PS	16	60	1,3	5	360	121	73	92	22	37,2	95	8X	BPS 3	7,11	49	24,2	100	96	16	60	1,3	6	300	
9	Ny.KM	61	Perempuan	Gagal Nafas c.c Post Op Laparotomi Eksplorasi	60	159	103	102	22	36,9	96	7X	BPS 3	7,34	24,2	29,9	299	100	10,5	SIMV-PSV	14	50	1,3	5	270	142	97	110	24	36,9	98	7X	BPS 3	7,27	37,1	17,2	120	100	14	50	1,3	5	270	
15	Ta.RR	22	Laki-laki	Gagal Nafas c.c Post Op Laparotomi Eksplorasi	60	120	75	101	22	36,9	95	9c	BPS 3	7,55	52,2	24	76	96	12,9	SIMV-PS	16	60	1,2	5	420	124	98	103	25	36,9	97	8X	BPS 3	7,58	50,8	24,4	79	96	16	60	1,2	5	420	
17	Ny.SA	52	Perempuan	Gagal nafas c.c Post Op Sectio cesaria Eklimpsia bent	30	168	102	98	24	37,3	95	8c	BPS 3	7,44	49	25	87	96	13,4	SIMV-Volume	14	60	1,2	5	420	166	99	97	24	37,3	95	8c	BPS 3	7,44	48	25	87	97	16	60	1,2	5	420	
29	Ny.MV	27	Perempuan	Gagal nafas c.c Post Op Sectio cesaria Eklimpsia bent	60	158	102	87	22	37,7	97	8X	BPS 3	7,32	47	28	89	96	11	SIMV-PS	14	60	1,2	6	360	143	98	88	22	37,8	97	8X	BPS 3	7,34	47	31	96	97	14	60	1,2	6	360	
19	Ta.JB	54	Laki-laki	Gagal Nafas c.c Post Op Tymektomi Total	45	134	77	85	22	37,2	98	10c	BPS 3	7,47	33	22	102	97	11,8	SIMV-PSV	16	60	1,2	5	360	134	78	86	22	37,2	98	10c	BPS 3	7,47	33	25	104	98	16	60	1,2	5	360	
25	Ny.YH	57	Perempuan	Gagal Nafas c.c Post Op Tymektomi Total	45	121	77	109	22	36,7	96	7x	BPS 3	7,37	53	16	92	98	14,3	SIMV-Volume	16	60	1,2	5	360	124	79	110	23	36,8	98	7X	BPS 3	7,37	53	16	102	98	16	60	1,2	5	360	
11	Ny.JM	57	Laki-laki	Gagal Nafas c.c Post Op wide cecisi Hemigastrotomi Dextra	30	134	79	98	24	37,9	97	8X	BPS 3	7,21	49	25,3	89	96	11,9	SIMV-Volume	16	60	1,5	5	420	124	66	96	23	38,1	97	8X	BPS 3	7,21	49	25,3	89	97	14	50	1,4	5	400	
38	Ny.YP	44	Perempuan	Gagal nafas c.c Preeklampsia Hipertensi Grade II	30	156	98	100	22	36,6	98	7X	BPS 3	7,64	29	16	69	96	13,6	SIMV-Volume	16	60	1,7	5	420	143	98	18	36,7	98	7X	BPS 3	7,63	26	36,1	84	98	14	60	1,8	5	320		
34	Ny.AK	62	Perempuan	Gagal nafas c.c Preeklampsia Hipertensi Grade II	60	154	99	100	28	36,6	96	8X	BPS 3	7,43	32	29	92	97	10,7	SIMV-Volume	14	60	1,2	5	340	119	74	102	29	37,2	99	8X	BPS 3	7,42	34	32	99	100	14	60	1,2	5	340	
23	Ta.ES	59	Laki-laki	Gagal nafas c.c Stroke Hemoragik	45	119	88	119	22	37,3	97	7X	BPS 3	7,29	52	16	83	98	12,9	SIMV-Volume	16	60	1,2	5	420	118	89	121	22	37,2	99	7X	BPS 3	7,29	52	16	84,5	98	16	60	1,2	5	420	
12	Ny.AL	70	Perempuan	Gagal nafas c.c Stroke Hemoragik + AKI	45	137	78	128	26	37,9	97	7x	BPS 3	7,31	53,4	28,7	66	98	13,3	SIMV-Volume	14	60	1,2	5	360	136	98	129	26	37,8	99	7x	BPS 3	7,26	64	29	87	89	14	60	1,2	5	360	
26	Ta.RU	55	Laki-laki	Gagal N																																								

## LAMPIRAN OUTPUT OLAH DATA

### Crosstabs

#### Jenis Kelamin \* Jenis HOBE (Derajat) Crosstabulation

		Jenis HOBE (Derajat)			Total	
		HOBE 30 derajat	HOBE 45 derajat	HOBE 60 derajat		
Jenis Kelamin	Laki-laki	Count	8	9	6	23
		% within Jenis HOBE (Derajat)	53.3%	60.0%	40.0%	51.1%
	Perempuan	Count	7	6	9	22
		% within Jenis HOBE (Derajat)	46.7%	40.0%	60.0%	48.9%
Total	Count	15	15	15	45	
	% within Jenis HOBE (Derajat)	100.0%	100.0%	100.0%	100.0%	

#### Diagnosa medis \* Jenis HOBE (Derajat) Crosstabulation

		Jenis HOBE (Derajat)			Total	
		HOBE 30 derajat	HOBE 45 derajat	HOBE 60 derajat		
Diagnosa medis	Kardio	Count	1	0	1	2
		% within Jenis HOBE (Derajat)	6.7%	0.0%	6.7%	4.4%
	Nefro	Count	1	1	3	5
		% within Jenis HOBE (Derajat)	6.7%	6.7%	20.0%	11.1%
	Neurologis (medical)	Count	1	4	2	7
		% within Jenis HOBE (Derajat)	6.7%	26.7%	13.3%	15.6%
	Metabolik (medical)	Count	4	4	2	10
		% within Jenis HOBE (Derajat)	26.7%	26.7%	13.3%	22.2%
	Post pg digestive	Count	5	6	4	15
		% within Jenis HOBE (Derajat)	33.3%	40.0%	26.7%	33.3%
	Post op obstetrik	Count	2	0	2	4
		% within Jenis HOBE (Derajat)	13.3%	0.0%	13.3%	8.9%
	Post op bedah	Count	1	0	1	2
		% within Jenis HOBE (Derajat)	6.7%	0.0%	6.7%	4.4%
Total	Count	15	15	15	45	
	% within Jenis HOBE (Derajat)	100.0%	100.0%	100.0%	100.0%	

#### Pre GCS \* Jenis HOBE (Derajat) Crosstabulation

		Jenis HOBE (Derajat)			Total
		HOBE 30 derajat	HOBE 45 derajat	HOBE 60 derajat	
5X	Count	0	1	0	1

Pre GCS	% within Jenis HOBE (Derajat)		0.0%	6.7%	0.0%	2.2%
	6X	Count	0	0	2	2
		% within Jenis HOBE (Derajat)		0.0%	0.0%	13.3%
	7X	Count	6	7	5	18
		% within Jenis HOBE (Derajat)		40.0%	46.7%	33.3%
	8X	Count	6	4	7	17
		% within Jenis HOBE (Derajat)		40.0%	26.7%	46.7%
	9X	Count	3	1	1	5
		% within Jenis HOBE (Derajat)		20.0%	6.7%	6.7%
10X	Count	0	2	0	2	
	% within Jenis HOBE (Derajat)		0.0%	13.3%	0.0%	4.4%
Total	Count	15	15	15	45	
	% within Jenis HOBE (Derajat)		100.0%	100.0%	100.0%	100.0%

**Pre Skala Nyeri \* Jenis HOBE (Derajat) Crosstabulation**

		Jenis HOBE (Derajat)			Total	
		HOBE 30 derajat	HOBE 45 derajat	HOBE 60 derajat		
Pre Skala Nyeri	BPS 3	Count	15	15	15	45
	% within Jenis HOBE (Derajat)		100.0%	100.0%	100.0%	100.0%
Total	Count		15	15	15	45
	% within Jenis HOBE (Derajat)		100.0%	100.0%	100.0%	100.0%

**Pre\_Mode Ventilator \* Jenis HOBE (Derajat) Crosstabulation**

		Jenis HOBE (Derajat)			Total	
		HOBE 30 derajat	HOBE 45 derajat	HOBE 60 derajat		
Pre_Mode Ventilator	SIMV-PS	Count	1	4	4	9
		% within Jenis HOBE (Derajat)		6.7%	26.7%	26.7%
	SIMV-PSV	Count	1	2	1	4
		% within Jenis HOBE (Derajat)		6.7%	13.3%	6.7%
	SIMV-Volume	Count	13	9	10	32
		% within Jenis HOBE (Derajat)		86.7%	60.0%	66.7%
Total	Count		15	15	15	45
	% within Jenis HOBE (Derajat)		100.0%	100.0%	100.0%	100.0%

**Pre\_I:E Ratio \* Jenis HOBE (Derajat) Crosstabulation**

		Jenis HOBE (Derajat)			Total
		HOBE 30 derajat	HOBE 45 derajat	HOBE 60 derajat	
1:1	Count	0	0	2	2

Pre I:E Ratio	% within Jenis HOBE (Derajat)	0.0%	0.0%	13.3%	4.4%
	1:1.5 Count	0	0	2	2
1:2	% within Jenis HOBE (Derajat)	0.0%	0.0%	13.3%	4.4%
	Count	11	10	8	29
1:3	% within Jenis HOBE (Derajat)	73.3%	66.7%	53.3%	64.4%
	Count	2	3	1	6
1:4	% within Jenis HOBE (Derajat)	13.3%	20.0%	6.7%	13.3%
	Count	0	2	1	3
1:5	% within Jenis HOBE (Derajat)	0.0%	13.3%	6.7%	6.7%
	Count	1	0	0	1
1:7	% within Jenis HOBE (Derajat)	6.7%	0.0%	0.0%	2.2%
	Count	1	0	0	1
1:8	% within Jenis HOBE (Derajat)	6.7%	0.0%	0.0%	2.2%
	Count	0	0	1	1
Total	% within Jenis HOBE (Derajat)	0.0%	0.0%	6.7%	2.2%
	Count	15	15	15	45
Total	% within Jenis HOBE (Derajat)	100.0%	100.0%	100.0%	100.0%
	Count	15	15	15	45

**Post GCS \* Jenis HOBE (Derajat) Crosstabulation**

		Jenis HOBE (Derajat)			Total
		HOBE 30 derajat	HOBE 45 derajat	HOBE 60 derajat	
Post GCS	5X Count	0	1	0	1
	% within Jenis HOBE (Derajat)	0.0%	6.7%	0.0%	2.2%
6X	Count	0	0	2	2
	% within Jenis HOBE (Derajat)	0.0%	0.0%	13.3%	4.4%
7X	Count	7	7	4	18
	% within Jenis HOBE (Derajat)	46.7%	46.7%	26.7%	40.0%
8X	Count	5	4	8	17
	% within Jenis HOBE (Derajat)	33.3%	26.7%	53.3%	37.8%
9X	Count	3	1	1	5
	% within Jenis HOBE (Derajat)	20.0%	6.7%	6.7%	11.1%
10X	Count	0	2	0	2
	% within Jenis HOBE (Derajat)	0.0%	13.3%	0.0%	4.4%
Total	Count	15	15	15	45
	% within Jenis HOBE (Derajat)	100.0%	100.0%	100.0%	100.0%

**Post Skala Nyeri \* Jenis HOBE (Derajat) Crosstabulation**

Jenis HOBE (Derajat) | Total

			HOBE 30 derajat	HOBE 45 derajat	HOBE 60 derajat	
Post Skala Nyeri	BPS 3	Count	15	15	15	45
		% within Jenis HOBE (Derajat)	100.0%	100.0%	100.0%	100.0%
Total		Count	15	15	15	45
		% within Jenis HOBE (Derajat)	100.0%	100.0%	100.0%	100.0%

**Post\_I:E Ratio \* Jenis HOBE (Derajat) Crosstabulation**

		Jenis HOBE (Derajat)			Total	
		HOBE 30 derajat	HOBE 45 derajat	HOBE 60 derajat		
Post I:E Ratio	1:1	Count	0	0	2	2
		% within Jenis HOBE (Derajat)	0.0%	0.0%	13.3%	4.4%
	1:1.5	Count	0	0	2	2
		% within Jenis HOBE (Derajat)	0.0%	0.0%	13.3%	4.4%
	1:2	Count	11	10	8	29
		% within Jenis HOBE (Derajat)	73.3%	66.7%	53.3%	64.4%
	1:3	Count	2	3	2	7
		% within Jenis HOBE (Derajat)	13.3%	20.0%	13.3%	15.6%
	1:4	Count	1	1	1	3
		% within Jenis HOBE (Derajat)	6.7%	6.7%	6.7%	6.7%
	1:7	Count	0	1	0	1
		% within Jenis HOBE (Derajat)	0.0%	6.7%	0.0%	2.2%
	1:8	Count	1	0	0	1
		% within Jenis HOBE (Derajat)	6.7%	0.0%	0.0%	2.2%
Total	Count	15	15	15	45	
	% within Jenis HOBE (Derajat)	100.0%	100.0%	100.0%	100.0%	

**Kat\_Pre\_SPO2 \* Jenis HOBE (Derajat) Crosstabulation**

		Jenis HOBE (Derajat)			Total	
		HOBE 30 derajat	HOBE 45 derajat	HOBE 60 derajat		
Kat_Pre_SPO2	Hipoksia Ringan: $\geq 91-94$	Count	2	1	3	6
		% within Jenis HOBE (Derajat)	13.3%	6.7%	20.0%	13.3%
	Hipoksia Sedang: $\geq 85-90\%$	Count	0	0	1	1
		% within Jenis HOBE (Derajat)	0.0%	0.0%	6.7%	2.2%
	Normal: $\geq 95\%$	Count	13	14	11	38
		% within Jenis HOBE (Derajat)	86.7%	93.3%	73.3%	84.4%
Total	Count	15	15	15	45	
	% within Jenis HOBE (Derajat)	100.0%	100.0%	100.0%	100.0%	



**Kat\_Pre\_PaO2 \* Jenis HOBE (Derajat) Crosstabulation**

		Jenis HOBE (Derajat)			Total	
		HOBE 30 derajat	HOBE 45 derajat	HOBE 60 derajat		
Kat_Pre_PaO2	Hipoksemia: < 80 mmhg	Count	5	4	6	15
		% within Jenis HOBE (Derajat)	33.3%	26.7%	40.0%	33.3%
	Normoksemia ≥ 80 - 100 mmHg	Count	7	5	5	17
		% within Jenis HOBE (Derajat)	46.7%	33.3%	33.3%	37.8%
	Hiperoksemia >100 mmHg	Count	3	6	4	13
		% within Jenis HOBE (Derajat)	20.0%	40.0%	26.7%	28.9%
Total	Count	15	15	15	45	
	% within Jenis HOBE (Derajat)	100.0%	100.0%	100.0%	100.0%	

**Kat\_Post\_PaO2 \* Jenis HOBE (Derajat) Crosstabulation**

		Jenis HOBE (Derajat)			Total	
		HOBE 30 derajat	HOBE 45 derajat	HOBE 60 derajat		
Kat_Post_PaO2	Hipoksemia: < 80 mmhg	Count	5	2	7	14
		% within Jenis HOBE (Derajat)	33.3%	13.3%	46.7%	31.1%
	Normoksemia ≥ 80 - 100 mmHg	Count	8	6	2	16
		% within Jenis HOBE (Derajat)	53.3%	40.0%	13.3%	35.6%
	Hiperoksemia >100 mmHg	Count	2	7	6	15
		% within Jenis HOBE (Derajat)	13.3%	46.7%	40.0%	33.3%
Total	Count	15	15	15	45	
	% within Jenis HOBE (Derajat)	100.0%	100.0%	100.0%	100.0%	

**Kat\_Post\_SPO2 \* Jenis HOBE (Derajat) Crosstabulation**

		Jenis HOBE (Derajat)			Total	
		HOBE 30 derajat	HOBE 45 derajat	HOBE 60 derajat		
Kat_Post_SPO2	Hipoksia Ringan: ≥ 91-94	Count	2	0	2	4
		% within Jenis HOBE (Derajat)	13.3%	0.0%	13.3%	8.9%
	Normal: ≥ 95%	Count	13	15	13	41
		% within Jenis HOBE (Derajat)	86.7%	100.0%	86.7%	91.1%
Total	Count	15	15	15	45	
	% within Jenis HOBE (Derajat)	100.0%	100.0%	100.0%	100.0%	

**Descriptives**

	Descriptive Statistics			
	N	Minimum	Maximum	Mean

Umur (Tahun)	45	19	70	47.18	13.781
Pre_Sistol	45	86	168	124.87	18.674
Pre_Diastol	45	52	104	79.78	13.142
Pre_HR (x/menit)	45	63	137	99.27	18.880
Pre RR(x/menit)	45	18	31	23.00	3.282
Pre Suhu Badan	45	36.0	39.1	37.358	.7085
Pre SPO2 %	45	89	99	96.13	1.779
Pre PH	45	6.9	7.6	7.338	.1652
Pre_PCO2	45	29.0	74.0	49.447	11.6175
Pre_HCO3	45	6.9	36.8	21.587	6.3184
Pre_PaO2	45	42.4	299.0	102.153	49.9849
Pre_SaO2(mmol/L)	45	85	100	96.56	2.501
Pre_HB (gr/dl)	45	10.3	19.4	12.671	1.8119
Pre RR	45	14	20	15.53	1.531
Pre FIO2 %	45	0	60	54.23	11.134
Pre PEEP	45	5	6	5.27	.447
Pre_Tidal Volume	45	270	443	373.62	44.629
Valid N (listwise)	45				

### Descriptives

	N	Descriptive Statistics			
		Minimum	Maximum	Mean	Std. Deviation
Post_Sistol	45	104	166	125.56	15.957
Post_Diastol	45	49	102	82.89	12.138
Post_HR (x/menit)	45	66	136	98.80	17.873
Post RR(x/menit)	45	18	31	23.27	3.201
Post Suhu Badan	45	36.0	39.4	37.349	.7266
Post SPO2 %	45	94	100	97.29	1.701
Post_PH	45	6.9	7.6	7.341	.1658
Post_PCO2	45	26.0	90.0	49.647	12.4873
Post_HCO3	45	6.4	38.1	21.551	6.3455
Post_PaO2	45	44.0	249.0	98.531	40.9836
Post_SaO2(mmol/L)	45	58	100	95.44	7.812
Post_RR	45	14	20	15.58	1.574
Post_FIO2 %	45	40	60	53.56	8.569
Post_PEEP	45	5	6	5.27	.447
Post_Tidal Volume	45	270	443	373.18	44.255
Valid N (listwise)	45				

### Descriptives

		Descriptive Statistics				
Jenis HOBE (Derajat)		N	Minimum	Maximum	Mean	Std. Deviation
HOBE 30 derajat	Umur (Tahun)	15	28	62	48.33	10.635
	Pre_Sistol	15	110	168	130.60	17.995
	Pre_Diastol	15	65	104	83.47	11.064
	Pre_HR (x/menit)	15	77	124	102.27	14.230
	Pre RR(x/menit)	15	19	28	23.20	2.678
	Pre Suhu Badan	15	36.0	39.1	37.313	.8365
	Pre SPO2 %	15	94	98	96.33	1.397
	Pre_PH	15	7.2	7.6	7.359	.1308

	Pre_PCO2	15	29.0	69.7	49.040	10.5567
	Pre_HCO3	15	12.9	28.0	20.307	4.6567
	Pre_PaO2	15	42.4	170.0	88.220	29.5144
	Pre_SaO2(mmol/L)	15	93	98	96.47	1.598
	Pre_HB (gr/dl)	15	10.7	14.5	12.193	1.1100
	Pre_RR	15	14	16	15.20	1.014
	Pre_FIO2 %	15	40	60	54.00	9.103
	Pre_PEEP	15	5	6	5.27	.458
	Pre_Tidal Volume	15	300	420	380.67	45.114
	Valid N (listwise)	15				
HOBE 45 derajat	Umur (Tahun)	15	22	70	51.07	11.877
	Pre_Sistol	15	107	143	121.00	10.576
	Pre_Diastol	15	63	98	77.60	10.091
	Pre_HR (x/menit)	15	66	137	100.07	23.383
	Pre_RR(x/menit)	15	18	26	23.33	2.610
	Pre_Suhu Badan	15	36.0	39.1	37.427	.7815
	Pre_SPO2 %	15	94	99	96.67	1.291
	Pre_PH	15	6.9	7.6	7.323	.1944
	Pre_PCO2	15	30.0	67.2	47.320	11.7078
	Pre_HCO3	15	10.0	29.3	20.760	6.7289
	Pre_PaO2	15	66.0	249.0	109.900	49.7548
	Pre_SaO2(mmol/L)	15	94	100	97.27	1.438
	Pre_HB (gr/dl)	15	10.3	19.4	13.233	2.1493
	Pre_RR	15	14	16	15.20	1.014
	Pre_FIO2 %	15	40	60	56.00	6.325
	Pre_PEEP	15	5	6	5.20	.414
	Pre_Tidal Volume	15	300	443	373.53	45.467
	Valid N (listwise)	15				
HOBE 60 derajat	Umur (Tahun)	15	19	64	42.13	17.258
	Pre_Sistol	15	86	159	123.00	24.603
	Pre_Diastol	15	52	103	78.27	17.219
	Pre_HR (x/menit)	15	63	126	95.47	18.581
	Pre_RR(x/menit)	15	18	31	22.47	4.406
	Pre_Suhu Badan	15	36.6	38.2	37.333	.5094
	Pre_SPO2 %	15	89	98	95.40	2.324
	Pre_PH	15	7.1	7.6	7.332	.1738
	Pre_PCO2	15	32.0	74.0	51.980	12.7969
	Pre_HCO3	15	6.9	36.8	23.693	7.1600
	Pre_PaO2	15	44.0	299.0	108.340	64.7491
	Pre_SaO2(mmol/L)	15	85	100	95.93	3.751
	Pre_HB (gr/dl)	15	10.5	16.0	12.587	1.9686
	Pre_RR	15	14	20	16.20	2.145
	Pre_FIO2 %	15	0	60	52.69	16.150
	Pre_PEEP	15	5	6	5.33	.488
	Pre_Tidal Volume	15	270	420	366.67	45.303
	Valid N (listwise)	15				

## Descriptives

Descriptive Statistics					
Jenis HOBE (Derajat)	N	Minimum	Maximum	Mean	Std. Deviation
Post_Sistol	15	109	166	132.27	18.507

HOBE 30 derajat	Post_Diastol	15	66	102	84.80	11.465
	Post_HR (x/menit)	15	66	119	99.33	16.702
	Post_RR(x/menit)	15	18	29	22.93	3.369
	Post Suhu Badan	15	36.0	39.0	37.227	.8972
	Post SPO2 %	15	94	100	96.87	1.767
	Post_PH	15	7.2	7.6	7.379	.1134
	Post_PCO2	15	26.0	62.0	46.887	9.2790
	Post_HCO3	15	13.0	28.0	20.673	4.5344
	Post_PaO2	15	59.0	178.0	90.100	27.1270
	Post_SaO2(mmol/L)	15	93	100	97.20	1.971
	Post_RR	15	14	16	15.20	1.014
	Post_FIO2 %	15	40	60	51.33	9.155
	Post_PEEP	15	5	6	5.33	.488
	Post_Tidal Volume	15	300	420	371.33	43.894
	Valid N (listwise)	15				
HOBE 45 derajat	Post_Sistol	15	109	152	127.00	14.407
	Post_Diastol	15	64	98	83.87	11.012
	Post_HR (x/menit)	15	67	136	102.27	20.222
	Post_RR(x/menit)	15	18	26	22.67	2.440
	Post Suhu Badan	15	36.6	39.4	37.440	.6854
	Post SPO2 %	15	95	100	97.53	1.642
	Post_PH	15	6.9	7.6	7.334	.1835
	Post_PCO2	15	30.0	64.0	47.173	11.5502
	Post_HCO3	15	9.0	29.0	21.000	6.7582
	Post_PaO2	15	77.0	249.0	109.293	48.4098
	Post_SaO2(mmol/L)	15	89	100	97.20	2.597
	Post_RR	15	14	16	15.20	1.014
	Post_FIO2 %	15	40	60	55.33	7.432
	Post_PEEP	15	5	6	5.20	.414
	Post_Tidal Volume	15	300	443	378.87	47.772
Valid N (listwise)	15					
HOBE 60 derajat	Post_Sistol	15	104	143	117.40	11.331
	Post_Diastol	15	49	98	80.00	14.015
	Post_HR (x/menit)	15	73	122	94.80	16.904
	Post_RR(x/menit)	15	19	31	24.20	3.668
	Post Suhu Badan	15	36.0	38.3	37.380	.5990
	Post SPO2 %	15	94	100	97.47	1.727
	Post_PH	15	6.9	7.6	7.309	.1926
	Post_PCO2	15	34.0	90.0	54.880	15.0502
	Post_HCO3	15	6.4	38.1	22.980	7.5482
	Post_PaO2	15	44.0	230.0	96.200	44.6481
	Post_SaO2(mmol/L)	15	58	100	91.93	12.702
	Post_RR	15	14	20	16.33	2.193
	Post_FIO2 %	15	40	60	54.00	9.103
	Post_PEEP	15	5	6	5.27	.458
	Post_Tidal Volume	15	270	420	369.33	43.502
Valid N (listwise)	15					

## Explore

### Test of Homogeneity of Variance<sup>a,b,c</sup>

		Levene Statistic	df1	df2	Sig.
Umur (Tahun)	Based on Mean	3.849	2	42	.059

	Based on Median	3.459	2	42	.051
	Based on Median and with adjusted df	3.459	2	41.993	.051
	Based on trimmed mean	3.863	2	42	.059
Jenis Kelamin	Based on Mean	.218	2	42	.805
	Based on Median	.085	2	42	.918
	Based on Median and with adjusted df	.085	2	41.988	.918
	Based on trimmed mean	.218	2	42	.805
Diagnosa medis	Based on Mean	2.418	2	42	.101
	Based on Median	1.952	2	42	.155
	Based on Median and with adjusted df	1.952	2	32.959	.158
	Based on trimmed mean	2.342	2	42	.109
Pre_Sistol	Based on Mean	7.591	2	42	<b>.002</b>
	Based on Median	2.651	2	42	.082
	Based on Median and with adjusted df	2.651	2	27.577	.088
	Based on trimmed mean	7.567	2	42	.002
Pre_Diastol	Based on Mean	4.055	2	42	<b>.025</b>
	Based on Median	3.110	2	42	.055
	Based on Median and with adjusted df	3.110	2	39.831	.056
	Based on trimmed mean	4.135	2	42	.023
Pre_HR (x/menit)	Based on Mean	2.632	2	42	<b>.084</b>
	Based on Median	2.464	2	42	.097
	Based on Median and with adjusted df	2.464	2	38.940	.098
	Based on trimmed mean	2.617	2	42	.085
Pre RR(x/menit)	Based on Mean	2.885	2	42	<b>.067</b>
	Based on Median	1.781	2	42	.181
	Based on Median and with adjusted df	1.781	2	32.760	.184
	Based on trimmed mean	2.397	2	42	.103
Pre Suhu Badan	Based on Mean	.890	2	42	<b>.418</b>
	Based on Median	.636	2	42	.534
	Based on Median and with adjusted df	.636	2	33.685	.536
	Based on trimmed mean	.847	2	42	.436
Pre SPO2 %	Based on Mean	1.885	2	42	.164
	Based on Median	1.560	2	42	.222
	Based on Median and with adjusted df	1.560	2	33.919	.225
	Based on trimmed mean	1.773	2	42	.182
Pre GCS	Based on Mean	1.499	2	42	<b>.235</b>
	Based on Median	.703	2	42	.501
	Based on Median and with adjusted df	.703	2	30.757	.503
	Based on trimmed mean	1.495	2	42	.236
Pre_PH	Based on Mean	.489	2	42	<b>.617</b>
	Based on Median	.382	2	42	.685
	Based on Median and with adjusted df	.382	2	34.204	.685
	Based on trimmed mean	.476	2	42	.624
Pre_PCO2	Based on Mean	.913	2	42	<b>.409</b>
	Based on Median	.668	2	42	.518

	Based on Median and with adjusted df	.668	2	41.753	.518
	Based on trimmed mean	.924	2	42	.405
Pre_HCO3	Based on Mean	1.310	2	42	<b>.281</b>
	Based on Median	.773	2	42	.468
	Based on Median and with adjusted df	.773	2	35.042	.470
	Based on trimmed mean	1.259	2	42	.295
Pre_PaO2	Based on Mean	1.934	2	42	<b>.157</b>
	Based on Median	.786	2	42	.462
	Based on Median and with adjusted df	.786	2	31.467	.464
	Based on trimmed mean	1.249	2	42	.297
Pre_SaO2(mmol/L)	Based on Mean	2.995	2	42	<b>.061</b>
	Based on Median	2.116	2	42	.133
	Based on Median and with adjusted df	2.116	2	22.309	.144
	Based on trimmed mean	2.639	2	42	.083
Pre_HB (gr/dl)	Based on Mean	2.047	2	42	<b>.142</b>
	Based on Median	1.926	2	42	.158
	Based on Median and with adjusted df	1.926	2	29.308	.164
	Based on trimmed mean	1.934	2	42	.157
Pre_Mode Ventilator	Based on Mean	6.817	2	42	.003
	Based on Median	1.468	2	42	<b>.242</b>
	Based on Median and with adjusted df	1.468	2	37.043	.243
	Based on trimmed mean	7.075	2	42	.002
Pre_RR	Based on Mean	2.132	2	42	<b>.131</b>
	Based on Median	1.174	2	42	.319
	Based on Median and with adjusted df	1.174	2	34.519	.321
	Based on trimmed mean	1.629	2	42	.208
Pre_FIO2 %	Based on Mean	2.018	2	42	<b>.146</b>
	Based on Median	.325	2	42	.724
	Based on Median and with adjusted df	.325	2	26.943	.725
	Based on trimmed mean	1.133	2	42	.332
Pre_I:E Ratio	Based on Mean	.687	2	42	.509
	Based on Median	.647	2	42	<b>.529</b>
	Based on Median and with adjusted df	.647	2	35.408	.530
	Based on trimmed mean	.446	2	42	.643
Pre_PEEP	Based on Mean	1.311	2	42	<b>.280</b>
	Based on Median	.323	2	42	.726
	Based on Median and with adjusted df	.323	2	41.277	.726
	Based on trimmed mean	1.311	2	42	.280
Pre_Tidal Volume	Based on Mean	.096	2	42	<b>.909</b>
	Based on Median	.092	2	42	.912
	Based on Median and with adjusted df	.092	2	41.954	.912
	Based on trimmed mean	.055	2	42	.947

a. Pre Skala Nyeri is constant when Jenis HOBE (Derajat) = HOBE 30 derajat. It has been omitted.

b. Pre Skala Nyeri is constant when Jenis HOBE (Derajat) = HOBE 45 derajat. It has been omitted.

c. Pre Skala Nyeri is constant when Jenis HOBE (Derajat) = HOBE 60 derajat. It has been omitted.

**Explore**

**Descriptives**

Jenis HOBE (Derajat)				Statistic	Std. Error	
Pre SPO2 %	HOBE 30 derajat	Mean		96.33	.361	
		95% Confidence Interval for Mean	Lower Bound	95.56		
			Upper Bound	97.11		
		5% Trimmed Mean		96.37		
		Median		97.00		
		Variance		1.952		
		Std. Deviation		1.397		
		Minimum		94		
		Maximum		98		
		Range		4		
		Interquartile Range		2		
		Skewness		-.510	.580	
		Kurtosis		-1.085	1.121	
		HOBE 45 derajat	Mean		96.67	.333
			95% Confidence Interval for Mean	Lower Bound	95.95	
	Upper Bound			97.38		
	5% Trimmed Mean			96.69		
	Median			97.00		
	Variance			1.667		
	Std. Deviation			1.291		
	Minimum			94		
	Maximum			99		
	Range			5		
	Interquartile Range			1		
	Skewness			-.426	.580	
	Kurtosis			.284	1.121	
	HOBE 60 derajat		Mean		95.40	.600
			95% Confidence Interval for Mean	Lower Bound	94.11	
		Upper Bound		96.69		
		5% Trimmed Mean		95.61		
Median			96.00			
Variance			5.400			
Std. Deviation			2.324			
Minimum			89			
Maximum			98			
Range			9			
Interquartile Range			3			
Skewness			-1.509	.580		
Kurtosis			3.152	1.121		
Pre_PaO2		HOBE 30 derajat	Mean		88.220	7.6206
			95% Confidence Interval for Mean	Lower Bound	71.875	
	Upper Bound			104.565		
	5% Trimmed Mean			86.222		
	Median			87.400		
	Variance			871.100		
	Std. Deviation			29.5144		
	Minimum			42.4		
	Maximum			170.0		

		Range	127.6	
		Interquartile Range	22.0	
		Skewness	1.431	.580
		Kurtosis	3.681	1.121
	HOBE 45 derajat	Mean	109.900	12.8466
		95% Confidence Interval for Mean	Lower Bound Upper Bound	82.347 137.453
		5% Trimmed Mean	104.611	
		Median	92.000	
		Variance	2475.544	
		Std. Deviation	49.7548	
		Minimum	66.0	
		Maximum	249.0	
		Range	183.0	
		Interquartile Range	41.0	
		Skewness	1.915	.580
		Kurtosis	3.663	1.121
	HOBE 60 derajat	Mean	108.340	16.7182
		95% Confidence Interval for Mean	Lower Bound Upper Bound	72.483 144.197
		5% Trimmed Mean	101.322	
		Median	91.000	
		Variance	4192.448	
		Std. Deviation	64.7491	
		Minimum	44.0	
		Maximum	299.0	
		Range	255.0	
		Interquartile Range	33.9	
		Skewness	2.139	.580
		Kurtosis	5.019	1.121
Post SPO2 %	HOBE 30 derajat	Mean	96.87	.456
		95% Confidence Interval for Mean	Lower Bound Upper Bound	95.89 97.85
		5% Trimmed Mean	96.85	
		Median	97.00	
		Variance	3.124	
		Std. Deviation	1.767	
		Minimum	94	
		Maximum	100	
		Range	6	
		Interquartile Range	2	
		Skewness	.142	.580
		Kurtosis	.109	1.121
	HOBE 45 derajat	Mean	97.53	.424
		95% Confidence Interval for Mean	Lower Bound Upper Bound	96.62 98.44
		5% Trimmed Mean	97.54	
		Median	98.00	
		Variance	2.695	
		Std. Deviation	1.642	
		Minimum	95	
		Maximum	100	
		Range	5	



		Interquartile Range		3	
		Skewness		-.459	.580
		Kurtosis		-.971	1.121
	HOBE 60 derajat	Mean		97.47	.446
		95% Confidence Interval for Mean	Lower Bound	96.51	
			Upper Bound	98.42	
		5% Trimmed Mean		97.52	
		Median		98.00	
		Variance		2.981	
		Std. Deviation		1.727	
		Minimum		94	
		Maximum		100	
		Range		6	
		Interquartile Range		1	
		Skewness		-.752	.580
		Kurtosis		.898	1.121
Post_PaO2	HOBE 30 derajat	Mean		90.100	7.0042
		95% Confidence Interval for Mean	Lower Bound	75.078	
			Upper Bound	105.122	
		5% Trimmed Mean		86.944	
		Median		87.000	
		Variance		735.873	
		Std. Deviation		27.1270	
		Minimum		59.0	
		Maximum		178.0	
		Range		119.0	
		Interquartile Range		15.4	
		Skewness		2.609	.580
		Kurtosis		8.641	1.121
	HOBE 45 derajat	Mean		109.293	12.4994
		95% Confidence Interval for Mean	Lower Bound	82.485	
			Upper Bound	136.102	
		5% Trimmed Mean		103.326	
		Median		89.000	
		Variance		2343.512	
		Std. Deviation		48.4098	
		Minimum		77.0	
		Maximum		249.0	
		Range		172.0	
		Interquartile Range		25.0	
		Skewness		2.342	.580
		Kurtosis		5.070	1.121
	HOBE 60 derajat	Mean		96.200	11.5281
		95% Confidence Interval for Mean	Lower Bound	71.475	
			Upper Bound	120.925	
		5% Trimmed Mean		91.667	
		Median		96.000	
		Variance		1993.457	
		Std. Deviation		44.6481	
		Minimum		44.0	
		Maximum		230.0	
		Range		186.0	
		Interquartile Range		45.0	

Skewness	1.929	.580
Kurtosis	5.565	1.121

		Tests of Normality					
		Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
Jenis HOBE (Derajat)		Statistic	df	Sig.	Statistic	df	Sig.
Pre SPO2 %	HOBE 30 derajat	.283	15	.002	.866	15	.030
	HOBE 45 derajat	.269	15	.005	.922	15	.206
	HOBE 60 derajat	.165	15	.200*	.866	15	.029
Pre_PaO2	HOBE 30 derajat	.262	15	.007	.870	15	.034
	HOBE 45 derajat	.257	15	.009	.776	15	.002
	HOBE 60 derajat	.308	15	<.001	.752	15	<.001
Post SPO2 %	HOBE 30 derajat	.203	15	.096	.917	15	.175
	HOBE 45 derajat	.212	15	.069	.897	15	.085
	HOBE 60 derajat	.260	15	.007	.871	15	.035
Post_PaO2	HOBE 30 derajat	.252	15	.011	.717	15	<.001
	HOBE 45 derajat	.337	15	<.001	.642	15	<.001
	HOBE 60 derajat	.228	15	.034	.819	15	.007

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

a. Lilliefors Significance Correction

		Test of Homogeneity of Variance				
		Levene Statistic	df1	df2	Sig.	
Pre SPO2 %	Based on Mean	1.885	2	42	.164	
	Based on Median	1.560	2	42	.222	
	Based on Median and with adjusted df	1.560	2	33.919	.225	
	Based on trimmed mean	1.773	2	42	.182	
Pre_PaO2	Based on Mean	1.934	2	42	.157	
	Based on Median	.786	2	42	.462	
	Based on Median and with adjusted df	.786	2	31.467	.464	
	Based on trimmed mean	1.249	2	42	.297	
Post SPO2 %	Based on Mean	.062	2	42	.940	
	Based on Median	.015	2	42	.985	
	Based on Median and with adjusted df	.015	2	41.093	.985	
	Based on trimmed mean	.061	2	42	.941	
Post_PaO2	Based on Mean	1.112	2	42	.338	
	Based on Median	.762	2	42	.473	
	Based on Median and with adjusted df	.762	2	33.094	.475	
	Based on trimmed mean	.966	2	42	.389	

#### NPar Tests HOBE 30 derajat

	N	Descriptive Statistics			
		Mean	Std. Deviation	Minimum	Maximum
Pre SPO2 %	15	96.33	1.397	94	98
Pre PaO2	15	88.220	29.5144	42.4	170.0
Post SPO2 %	15	96.87	1.767	94	100
Post PaO2	15	90.100	27.1270	59.0	178.0

### Wilcoxon Signed Ranks Test

		Ranks		
		N	Mean Rank	Sum of Ranks
Post SPO2 % - Pre SPO2 %	Negative Ranks	1 <sup>a</sup>	2.50	2.50
	Positive Ranks	6 <sup>b</sup>	4.25	25.50
	Ties	8 <sup>c</sup>		
	Total	15		
Post_PaO2 - Pre_PaO2	Negative Ranks	6 <sup>d</sup>	4.33	26.00
	Positive Ranks	4 <sup>e</sup>	7.25	29.00
	Ties	5 <sup>f</sup>		
	Total	15		

a. Post SPO2 % < Pre SPO2 %

b. Post SPO2 % > Pre SPO2 %

c. Post SPO2 % = Pre SPO2 %

d. Post\_PaO2 < Pre\_PaO2

e. Post\_PaO2 > Pre\_PaO2

f. Post\_PaO2 = Pre\_PaO2

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

	Post SPO2 % - Pre SPO2 %	Post_PaO2 - Pre_PaO2
Z	-1.994 <sup>b</sup>	-.153 <sup>b</sup>
Asymp. Sig. (2-tailed)	.046	.878

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

### NPar Tests 45 derajat

	N	Descriptive Statistics			
		Mean	Std. Deviation	Minimum	Maximum
Pre_PaO2	15	109.900	49.7548	66.0	249.0
Post_PaO2	15	109.293	48.4098	77.0	249.0

### Wilcoxon Signed Ranks Test

		Ranks		
		N	Mean Rank	Sum of Ranks
Post_PaO2 - Pre_PaO2	Negative Ranks	2 <sup>a</sup>	12.50	25.00
	Positive Ranks	11 <sup>b</sup>	6.00	66.00
	Ties	2 <sup>c</sup>		
	Total	15		

a. Post\_PaO2 < Pre\_PaO2

b. Post\_PaO2 > Pre\_PaO2

c. Post\_PaO2 = Pre\_PaO2

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

	Post_PaO2 - Pre_PaO2
Z	-1.434 <sup>b</sup>
Asymp. Sig. (2-tailed)	.151

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

### T-Test 45 derajat

### Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Pre SPO2 %	96.67	15	1.291	.333
	Post SPO2 %	97.53	15	1.642	.424

### Paired Samples Correlations

		N	Correlation	Significance One-Sided p	Two-Sided p
Pair 1	Pre SPO2 % & Post SPO2 %	15	.865	<.001	<.001

### Paired Samples Test

		Paired Differences					Significance			
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	One-Sided p	Two-Sided p
					Lower	Upper				
Pair 1	Pre SPO2 % - Post SPO2 %	-.867	.834	.215	-1.328	-.405	-4.026	14	<.001	.001

### Paired Samples Effect Sizes

		Standardizer <sup>a</sup>	Point Estimate	95% Confidence Interval	
				Lower	Upper
Pair 1	Pre SPO2 % - Post SPO2 %	Cohen's d	.834	-1.039	-.394
		Hedges' correction	.882	-.983	-.372

a. The denominator used in estimating the effect sizes.

Cohen's d uses the sample standard deviation of the mean difference.

Hedges' correction uses the sample standard deviation of the mean difference, plus a correction factor.

### NPar Tests 60 derajat

#### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Pre SPO2 %	15	95.40	2.324	89	98
Pre PaO2	15	108.340	64.7491	44.0	299.0
Post SPO2 %	15	97.47	1.727	94	100
Post PaO2	15	96.200	44.6481	44.0	230.0

### Wilcoxon Signed Ranks Test

#### Ranks

		N	Mean Rank	Sum of Ranks
Post SPO2 % - Pre SPO2 %	Negative Ranks	0 <sup>a</sup>	.00	.00
	Positive Ranks	12 <sup>b</sup>	6.50	78.00
	Ties	3 <sup>c</sup>		
	Total	15		
Post PaO2 - Pre PaO2	Negative Ranks	5 <sup>d</sup>	11.60	58.00
	Positive Ranks	9 <sup>e</sup>	5.22	47.00
	Ties	1 <sup>f</sup>		
	Total	15		

- a. Post SPO2 % < Pre SPO2 %
- b. Post SPO2 % > Pre SPO2 %
- c. Post SPO2 % = Pre SPO2 %
- d. Post PaO2 < Pre PaO2
- e. Post PaO2 > Pre PaO2
- f. Post PaO2 = Pre PaO2

Test Statistics <sup>a</sup>		
	Post SPO2 % - Pre SPO2 %	Post PaO2 - Pre PaO2
Z	-3.082 <sup>b</sup>	-.345 <sup>c</sup>
Asymp. Sig. (2-tailed)	.002	.730

- a. Wilcoxon Signed Ranks Test
- b. Based on negative ranks.
- c. Based on positive ranks.

### NPar Tests

#### Kruskal-Wallis Test

		Ranks	
		Jenis HOBE (Derajat)	Mean Rank
		N	
Selisih_SPO2	HOBE 30 derajat	15	17.10
	HOBE 45 derajat	15	21.20
	HOBE 60 derajat	15	30.70
	Total	45	
Selisih_PaO2	HOBE 30 derajat	15	19.67
	HOBE 45 derajat	15	26.30
	HOBE 60 derajat	15	23.03
	Total	45	

Test Statistics <sup>a,b</sup>		
	Selisih SPO2	Selisih PaO2
Kruskal-Wallis H	9.199	1.926
df	2	2
Asymp. Sig.	.010	.382

- a. Kruskal Wallis Test
- b. Grouping Variable: Jenis HOBE (Derajat)

### NPar Tests

#### Mann-Whitney Test

		Ranks		
		Jenis HOBE (Derajat)	Mean Rank	Sum of Ranks
		N		
Selisih_SPO2	HOBE 30 derajat	15	13.90	208.50
	HOBE 45 derajat	15	17.10	256.50
	Total	30		
Selisih_PaO2	HOBE 30 derajat	15	12.77	191.50
	HOBE 45 derajat	15	18.23	273.50
	Total	30		

**Test Statistics<sup>a</sup>**

	Selisih SPO2	Selisih PaO2
Mann-Whitney U	88.500	71.500
Wilcoxon W	208.500	191.500
Z	-1.069	-1.712
Asymp. Sig. (2-tailed)	.285	.087
Exact Sig. [2*(1-tailed Sig.)]	.325 <sup>b</sup>	.089 <sup>b</sup>

a. Grouping Variable: Jenis HOBE (Derajat)

b. Not corrected for ties.

**NPar Tests**

**Mann-Whitney Test**

		Ranks		
Jenis HOBE (Derajat)		N	Mean Rank	Sum of Ranks
Selisih_SPO2	HOBE 30 derajat	15	11.20	168.00
	HOBE 60 derajat	15	19.80	297.00
	Total	30		
Selisih_PaO2	HOBE 30 derajat	15	14.90	223.50
	HOBE 60 derajat	15	16.10	241.50
	Total	30		

**Test Statistics<sup>a</sup>**

	Selisih SPO2	Selisih PaO2
Mann-Whitney U	48.000	103.500
Wilcoxon W	168.000	223.500
Z	-2.770	-.375
Asymp. Sig. (2-tailed)	.006	.708
Exact Sig. [2*(1-tailed Sig.)]	.007 <sup>b</sup>	.713 <sup>b</sup>

a. Grouping Variable: Jenis HOBE (Derajat)

b. Not corrected for ties.

**NPar Tests**

**Mann-Whitney Test**

		Ranks		
Jenis HOBE (Derajat)		N	Mean Rank	Sum of Ranks
Selisih_SPO2	HOBE 45 derajat	15	12.10	181.50
	HOBE 60 derajat	15	18.90	283.50
	Total	30		
Selisih_PaO2	HOBE 45 derajat	15	16.07	241.00
	HOBE 60 derajat	15	14.93	224.00
	Total	30		

**Test Statistics<sup>a</sup>**

	Selisih SPO2	Selisih PaO2
Mann-Whitney U	61.500	104.000
Wilcoxon W	181.500	224.000
Z	-2.182	-.353
Asymp. Sig. (2-tailed)	.029	.724

Exact Sig. [2*(1-tailed Sig.)]	.033 <sup>b</sup>	.744 <sup>b</sup>
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a. Grouping Variable: Jenis HOBE (Derajat)

b. Not corrected for ties.

### Nonparametric Tests

Hypothesis Test Summary				
	Null Hypothesis	Test	Sig. <sup>a,b</sup>	Decision
1	The distribution of Selisih_SPO2 is the same across categories of Jenis HOBE (Derajat).	Kruskal-Wallis Test	.010	Reject the null hypothesis.
2	The distribution of Selisih_PaO2 is the same across categories of Jenis HOBE (Derajat).	Kruskal-Wallis Test	.382	Retain the null hypothesis.

a. The significance level is .050.

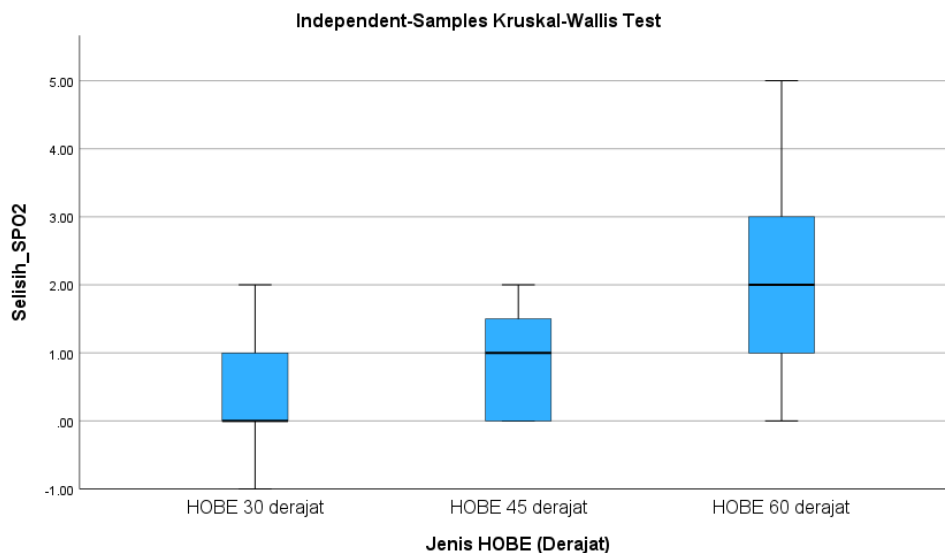
b. Asymptotic significance is displayed.

### Kruskal-Wallis Test

#### Selisih\_SPO2 across Jenis HOBE (Derajat)

Kruskal-Wallis Test Summary	
Total N	45
Test Statistic	9.199 <sup>a</sup>
Degree Of Freedom	2
Asymptotic Sig.(2-sided test)	.010

a. The test statistic is adjusted for ties.



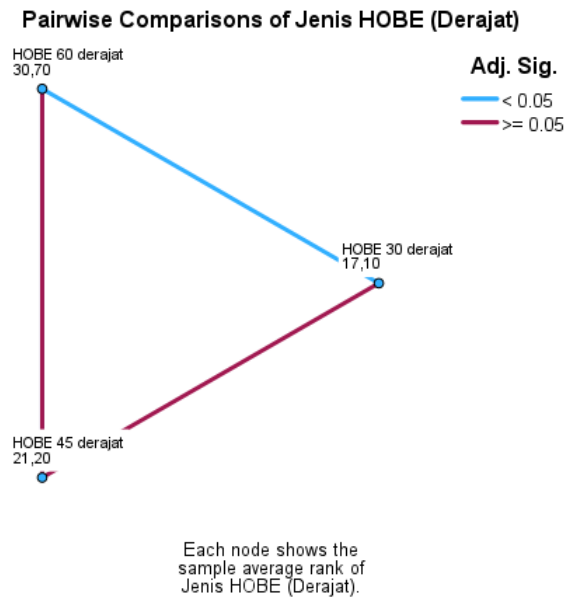
#### Pairwise Comparisons of Jenis HOBE (Derajat)

Sample 1-Sample 2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj. Sig. <sup>a</sup>
HOBE 30 derajat-HOBE 45 derajat	-4.100	4.600	-.891	.373	1.000

HOBE 30 derajat-HOBE 60 derajat	-13.600	4.600	-2.956	.003	.009
HOBE 45 derajat-HOBE 60 derajat	-9.500	4.600	-2.065	.039	.117

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same. Asymptotic significances (2-sided tests) are displayed. The significance level is .050.

a. Significance values have been adjusted by the Bonferroni correction for multiple tests.

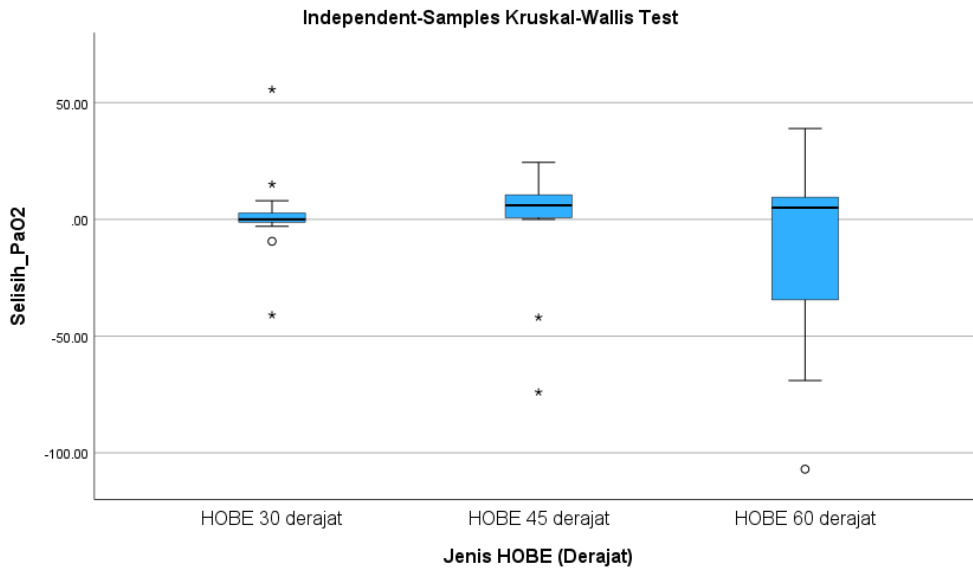


### Selisih\_PaO2 across Jenis HOBE (Derajat)

Total N	45
Test Statistic	1.926 <sup>a</sup>
Degree Of Freedom	2
Asymptotic Sig.(2-sided test)	.382

a. The test statistic is adjusted for ties.



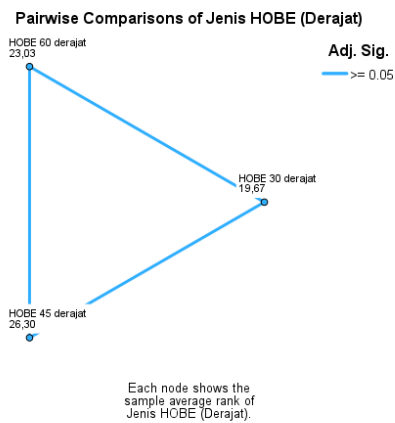


**Pairwise Comparisons of Jenis HOBE (Derajat)**

Sample 1-Sample 2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj. Sig. <sup>a</sup>
HOBE 30 derajat-HOBE 60 derajat	-3.367	4.780	-.704	.481	1.000
HOBE 30 derajat-HOBE 45 derajat	-6.633	4.780	-1.388	.165	.496
HOBE 60 derajat-HOBE 45 derajat	3.267	4.780	.683	.494	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same. Asymptotic significances (2-sided tests) are displayed. The significance level is .050.

a. Significance values have been adjusted by the Bonferroni correction for multiple tests.



### Nonparametric Tests

#### Hypothesis Test Summary

Null Hypothesis	Test	Sig. <sup>a,b</sup>	Decision
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1	The distribution of Selisih_SPO2 is the same across categories of Jenis HOBE (Derajat).	Mann-Whitney U Test	.325 <sup>c</sup>	Retain the null hypothesis.
2	The distribution of Selisih_PaO2 is the same across categories of Jenis HOBE (Derajat).	Mann-Whitney U Test	.089 <sup>c</sup>	Retain the null hypothesis.

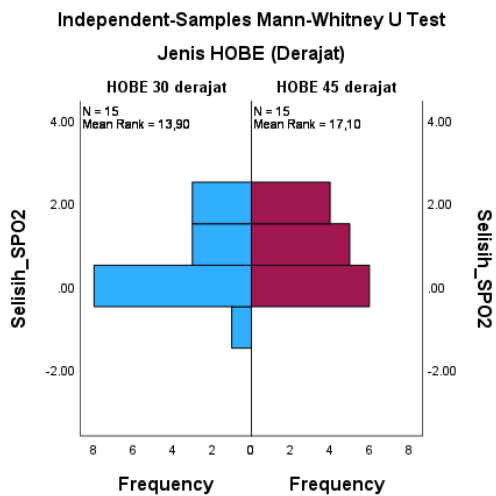
- The significance level is .050.
- Asymptotic significance is displayed.
- Exact significance is displayed for this test.

### Mann-Whitney U Test

#### Selisih\_SPO2 across Jenis HOBE (Derajat)

##### Mann-Whitney U Test Summary

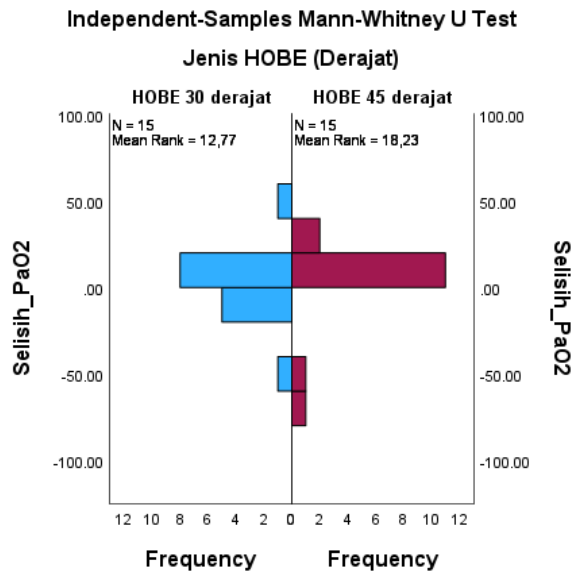
Total N	30
Mann-Whitney U	136.500
Wilcoxon W	256.500
Test Statistic	136.500
Standard Error	22.457
Standardized Test Statistic	1.069
Asymptotic Sig.(2-sided test)	.285
Exact Sig.(2-sided test)	.325



#### Selisih\_PaO2 across Jenis HOBE (Derajat)

##### Mann-Whitney U Test Summary

Total N	30
Mann-Whitney U	153.500
Wilcoxon W	273.500
Test Statistic	153.500
Standard Error	23.945
Standardized Test Statistic	1.712
Asymptotic Sig.(2-sided test)	.087



### Nonparametric Tests

		Hypothesis Test Summary		
	Null Hypothesis	Test	Sig. <sup>a,b</sup>	Decision
1	The distribution of Selisih_SPO2 is the same across categories of Jenis HOBE (Derajat).	Mann-Whitney U Test	.033 <sup>c</sup>	Reject the null hypothesis.
2	The distribution of Selisih_PaO2 is the same across categories of Jenis HOBE (Derajat).	Mann-Whitney U Test	.744 <sup>c</sup>	Retain the null hypothesis.

a. The significance level is .050.

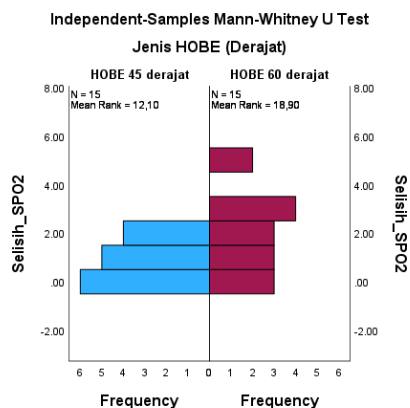
b. Asymptotic significance is displayed.

c. Exact significance is displayed for this test.

### Mann-Whitney U Test

#### Selisih\_SPO2 across Jenis HOBE (Derajat)

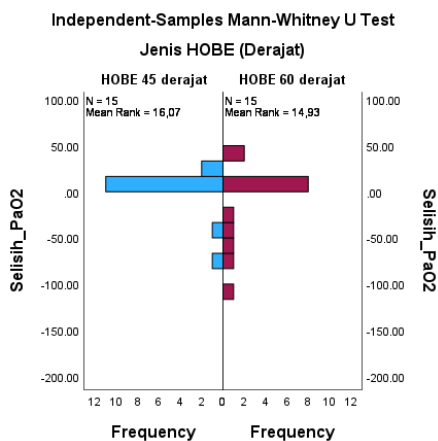
Mann-Whitney U Test Summary	
Total N	30
Mann-Whitney U	163.500
Wilcoxon W	283.500
Test Statistic	163.500
Standard Error	23.371
Standardized Test Statistic	2.182
Asymptotic Sig.(2-sided test)	.029
Exact Sig.(2-sided test)	.033



### Selisih\_PaO2 across Jenis HOBE (Derajat)

#### Mann-Whitney U Test Summary

Total N	30
Mann-Whitney U	104.000
Wilcoxon W	224.000
Test Statistic	104.000
Standard Error	24.063
Standardized Test Statistic	-.353
Asymptotic Sig.(2-sided test)	.724
Exact Sig.(2-sided test)	.744



### Nonparametric Tests

#### Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>	Decision
1	The distribution of Selisih_SPO2 is the same across categories of Jenis HOBE (Derajat).	Mann-Whitney U Test	.007 <sup>c</sup>	Reject the null hypothesis.
2	The distribution of Selisih_PaO2 is the same across categories of Jenis HOBE (Derajat).	Mann-Whitney U Test	.713 <sup>c</sup>	Retain the null hypothesis.

a. The significance level is .050.

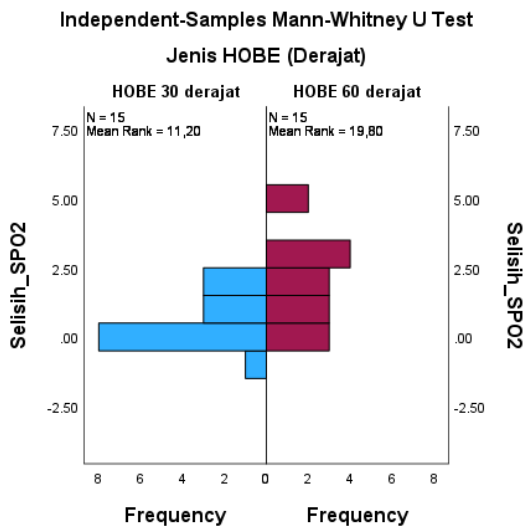
- b. Asymptotic significance is displayed.
- c. Exact significance is displayed for this test.

**Mann-Whitney U Test**

**Selisih\_SPO2 across Jenis HOBE (Derajat)**

**Mann-Whitney U Test Summary**

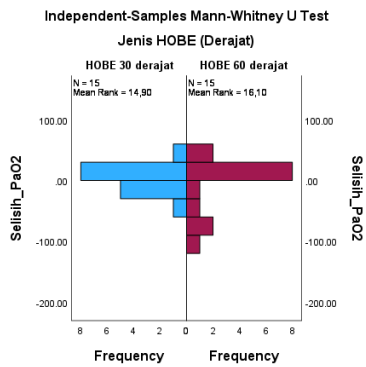
Total N	30
Mann-Whitney U	177.000
Wilcoxon W	297.000
Test Statistic	177.000
Standard Error	23.288
Standardized Test Statistic	2.770
Asymptotic Sig.(2-sided test)	.006
Exact Sig.(2-sided test)	.007



**Selisih\_PaO2 across Jenis HOBE (Derajat)**

**Mann-Whitney U Test Summary**

Total N	30
Mann-Whitney U	121.500
Wilcoxon W	241.500
Test Statistic	121.500
Standard Error	24.010
Standardized Test Statistic	.375
Asymptotic Sig.(2-sided test)	.708
Exact Sig.(2-sided test)	.713



## Nonparametric Correlations

### Correlations

		Pre SPO2 %	Pre PaO2	Post SPO2 %	Post PaO2	Selisih SPO2	Selisih PaO2
Spearman's rho	Pre SPO2 %	1.000	-.034	.695**	.049	-.243	.073
	Correlation Coefficient						
	Sig. (2-tailed)	.	.826	<,001	.748	.108	.636
	N	45	45	45	45	45	45
	Pre_PaO2	<b>-.034</b>	1.000	.231	.549**	.310*	-.425**
	Correlation Coefficient						
	Sig. (2-tailed)	<b>.826</b>	.	.127	<,001	.038	.004
	N	45	45	45	45	45	45
	Post SPO2 %	.695**	.231	1.000	.199	.453**	.066
	Correlation Coefficient						
	Sig. (2-tailed)	<,001	.127	.	.189	.002	.666
	N	45	45	45	45	45	45
Post_PaO2	.049	.549**	<b>.199</b>	1.000	.336*	.321*	
Correlation Coefficient							
Sig. (2-tailed)	.748	<,001	<b>.189</b>	.	.024	.031	
N	45	45	45	45	45	45	
Selisih_SPO2	-.243	.310*	.453**	.336*	1.000	.134	
Correlation Coefficient							
Sig. (2-tailed)	.108	.038	.002	.024	.	.380	
N	45	45	45	45	45	45	
Selisih_PaO2	.073	-.425**	.066	.321*	<b>.134</b>	1.000	
Correlation Coefficient							
Sig. (2-tailed)	.636	.004	.666	.031	<b>.380</b>	.	
N	45	45	45	45	45	45	

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

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

## Nonparametric Correlations

		Correlations							
Jenis HOBE (Derajat)			Pre SPO2 %	Pre_ PaO2	Post SPO2 %	Post_ PaO2	Selisih_ SPO2	Selisih_ PaO2	
HOBE 30 derajat	Spearman's rho	Pre SPO2 %	Correlation Coefficient	1.000	-.056	.924**	.470	.163	.513
			Sig. (2-tailed)	.	.843	<.001	.077	.562	.050
			N	15	15	15	15	15	15
	Pre_PaO2		Correlation Coefficient	<b>-.056</b>	1.000	.058	.512	.328	-.358
			Sig. (2-tailed)	<b>.843</b>	.	.838	.051	.233	.190
			N	15	15	15	15	15	15
	Post SPO2 %		Correlation Coefficient	.924**	.058	1.000	.466	.479	.454
			Sig. (2-tailed)	<.001	.838	.	.080	.071	.089
			N	15	15	15	15	15	15
	Post_PaO2		Correlation Coefficient	.470	.512	<b>.466</b>	1.000	.412	.390
			Sig. (2-tailed)	.077	.051	<b>.080</b>	.	.127	.151
			N	15	15	15	15	15	15
	Selisih_SPO2		Correlation Coefficient	.163	.328	.479	.412	1.000	.223
			Sig. (2-tailed)	.562	.233	.071	.127	.	.425
			N	15	15	15	15	15	15
Selisih_PaO2		Correlation Coefficient	.513	-.358	.454	.390	<b>.223</b>	1.000	
		Sig. (2-tailed)	.050	.190	.089	.151	<b>.425</b>	.	
		N	15	15	15	15	15	15	
HOBE 45 derajat	Spearman's rho	Pre SPO2 %	Correlation Coefficient	1.000	.378	.797**	.108	.146	-.421
			Sig. (2-tailed)	.	.165	<.001	.702	.605	.118
			N	15	15	15	15	15	15
	Pre_PaO2		Correlation Coefficient	<b>.378</b>	1.000	.304	.455	.057	-.496
			Sig. (2-tailed)	<b>.165</b>	.	.271	.089	.840	.060
			N	15	15	15	15	15	15
	Post SPO2 %		Correlation Coefficient	.797**	.304	1.000	.145	.683**	-.235
			Sig. (2-tailed)	<.001	.271	.	.607	.005	.399
			N	15	15	15	15	15	15
	Post_PaO2		Correlation Coefficient	.108	.455	<b>.145</b>	1.000	.328	.268
			Sig. (2-tailed)	.702	.089	<b>.607</b>	.	.232	.335
			N	15	15	15	15	15	15

Selisih_SPO2	Correlation Coefficient	.146	.057	.683**	.328	1.000	.210	
	Sig. (2-tailed)	.605	.840	.005	.232	.	.453	
	N	15	15	15	15	15	15	
Selisih_PaO2	Correlation Coefficient	-.421	-.496	-.235	.268	<b>.210</b>	1.000	
	Sig. (2-tailed)	.118	.060	.399	.335	<b>.453</b>	.	
	N	15	15	15	15	15	15	
HOBE 60 derajat Spearman's rho	Pre SPO2 %	Correlation Coefficient	1.000	-.305	.574*	-.227	-.664**	-.023
		Sig. (2-tailed)	.	.270	.025	.416	.007	.936
		N	15	15	15	15	15	15
Pre_PaO2	Correlation Coefficient	<b>-.305</b>	1.000	.262	.560*	.447	-.608*	
	Sig. (2-tailed)	<b>.270</b>	.	.346	.030	.095	.016	
	N	15	15	15	15	15	15	
Post SPO2 %	Correlation Coefficient	.574*	.262	1.000	-.105	.133	-.376	
	Sig. (2-tailed)	.025	.346	.	.709	.637	.168	
	N	15	15	15	15	15	15	
Post_PaO2	Correlation Coefficient	-.227	.560*	<b>-.105</b>	1.000	.332	.120	
	Sig. (2-tailed)	.416	.030	<b>.709</b>	.	.227	.669	
	N	15	15	15	15	15	15	
Selisih_SPO2	Correlation Coefficient	-	.447	.133	.332	1.000	-.051	
	Sig. (2-tailed)	.664**	.007	.095	.637	.227	.856	
	N	15	15	15	15	15	15	
Selisih_PaO2	Correlation Coefficient	-.023	-.608*	-.376	.120	<b>-.051</b>	1.000	
	Sig. (2-tailed)	.936	.016	.168	.669	<b>.856</b>	.	
	N	15	15	15	15	15	15	

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

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



Analisis Multivariat

Model Summary<sup>f</sup>

Jenis HOBE (Derajat)	Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
HOBE 30 derajat	1	.727 <sup>a</sup>	.528	.175	24.6467	2.044
	2	.726 <sup>b</sup>	.526	.263	23.2841	
	3	.714 <sup>c</sup>	.510	.314	22.4667	
	4	.704 <sup>d</sup>	.495	.358	21.7371	
	5	.683 <sup>e</sup>	.467	.378	21.4008	
HOBE 45 derajat	1	.841 <sup>g</sup>	.707	.488	34.6500	1.833
	2	.841 <sup>h</sup>	.707	.544	32.7080	
	3	.840 <sup>i</sup>	.705	.588	31.0853	
	4	.835 <sup>j</sup>	.698	.615	30.0311	
	5	.824 <sup>k</sup>	.679	.625	29.6400	
	6	.781 <sup>l</sup>	.610	.580	31.3625	
HOBE 60 derajat	1	.717 <sup>m</sup>	.515	.151	41.1498	1.490
	2	.717 <sup>n</sup>	.514	.244	38.8216	
	3	.714 <sup>o</sup>	.510	.314	36.9672	
	4	.698 <sup>p</sup>	.487	.347	36.0736	
	5	.642 <sup>q</sup>	.412	.314	36.9801	
	6	.587 <sup>r</sup>	.344	.294	37.5176	

**Coefficients<sup>a</sup>**

Jenis Model HOBE (Derajat)	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	95.0% Confidence Interval for B		
	B	Std. Error	Beta			Lower Bound	Upper Bound	
1	(Constant)	-419.409	526.775		-.796	.449	-1634.155	795.337
	Post_Diastol	-1.547	.732	-.654	-	.068	-3.234	.141
	Post_RR	7.211	10.562	.270	.683	.514	-17.145	31.566
	Post_PCO2	-.155	.859	-.053	-.180	.862	-2.136	1.827
	Post_SaO2(mmol/L)	5.696	4.575	.414	1.245	.248	-4.855	16.247
	Post_FIO2 %	.741	.841	.250	.881	.404	-1.199	2.682
	Post_PEEP	-10.013	18.498	-.180	-.541	.603	-52.670	32.644
	(Constant)	-412.722	496.410		-.831	.427	-1535.679	710.234
	Post_Diastol	-1.479	.593	-.625	-	.034	-2.821	-.137
	Post_RR	6.457	9.159	.241	.705	.499	-14.262	27.177
2	Post_SaO2(mmol/L)	5.605	4.296	.407	1.305	.224	-4.113	15.324
	Post_FIO2 %	.719	.786	.243	.914	.384	-1.060	2.498
	Post_PEEP	-9.688	17.392	-.174	-.557	.591	-49.031	29.656
	(Constant)	-517.313	443.397		-	.270	-1505.262	470.636
	Post_Diastol	-1.418	.562	-.599	-	.030	-2.671	-.165
3	Post_RR	4.414	8.098	.165	.545	.598	-13.630	22.458
	Post_SaO2(mmol/L)	6.431	3.891	.467	1.653	.129	-2.239	15.100
	Post_FIO2 %	.692	.757	.233	.914	.382	-.995	2.379
	(Constant)	-341.866	295.055		-	.271	-991.278	307.547
	Post_Diastol	-1.327	.520	-.561	-	.027	-2.472	-.183
4	Post_SaO2(mmol/L)	5.315	3.202	.386	1.660	.125	-1.732	12.363
	Post_FIO2 %	.543	.684	.183	.795	.444	-.961	2.048
	(Constant)	-397.818	282.100		-	.184	-1012.460	216.824
					1.410			

	Post_Diastol	-1.393	.505	-.589	-	.017	-2.494	-.292
					2.756			
	Post_SaO2(mmol/L)	6.235	2.939	.453	2.121	.055	-.169	12.639
	(Constant)	679.552	586.794		1.158	.280	-673.597	2032.702
	Post_Diastol	-3.315	1.111	-.754	-	.018	-5.878	-.752
					2.983			
	Post_RR	-1.433	9.944	-.030	-.144	.889	-24.362	21.497
1	Post_PCO2	.317	1.035	.076	.307	.767	-2.070	2.705
	Post_SaO2(mmol/L)	-.691	4.961	-.037	-.139	.893	-12.132	10.750
	Post_FIO2 %	-1.235	1.507	-.190	-.820	.436	-4.709	2.239
	Post_PEEP	-28.819	23.855	-.246	-	.262	-83.828	26.190
					1.208			
	(Constant)	605.017	227.934		2.654	.026	89.394	1120.639
	Post_Diastol	-3.230	.874	-.735	-	.005	-5.206	-1.253
					3.696			
2	Post_RR	-1.665	9.253	-.035	-.180	.861	-22.597	19.267
	Post_PCO2	.380	.880	.091	.432	.676	-1.609	2.370
	Post_FIO2 %	-1.216	1.416	-.187	-.858	.413	-4.419	1.988
	Post_PEEP	-28.892	22.512	-.247	-	.231	-79.819	22.034
					1.283			
	(Constant)	572.990	135.334		4.234	.002	271.446	874.533
HOBE	Post_Diastol	-3.219	.828	-.732	-	.003	-5.064	-1.373
45 dera-					3.886			
jat	3 Post_PCO2	.419	.811	.100	.516	.617	-1.388	2.226
	Post_FIO2 %	-1.259	1.326	-.193	-.949	.365	-4.214	1.697
	Post_PEEP	-27.667	20.393	-.237	-	.205	-73.106	17.772
					1.357			
	(Constant)	590.267	126.685		4.659	.001	311.435	869.099
	Post_Diastol	-3.333	.771	-.758	-	.001	-5.030	-1.635
					4.320			
4	Post_FIO2 %	-.950	1.143	-.146	-.830	.424	-3.466	1.567
	Post_PEEP	-28.643	19.617	-.245	-	.172	-71.820	14.533
					1.460			
	(Constant)	565.435	121.502		4.654	.001	300.705	830.165
	Post_Diastol	-3.535	.722	-.804	-	.000	-5.109	-1.962
5					4.896			
	Post_PEEP	-30.699	19.207	-.263	-	.136	-72.547	11.148
					1.598			
	(Constant)	397.306	64.347		6.174	.000	258.292	536.320
6	Post_Diastol	-3.434	.761	-.781	-	.001	-5.079	-1.790
					4.512			

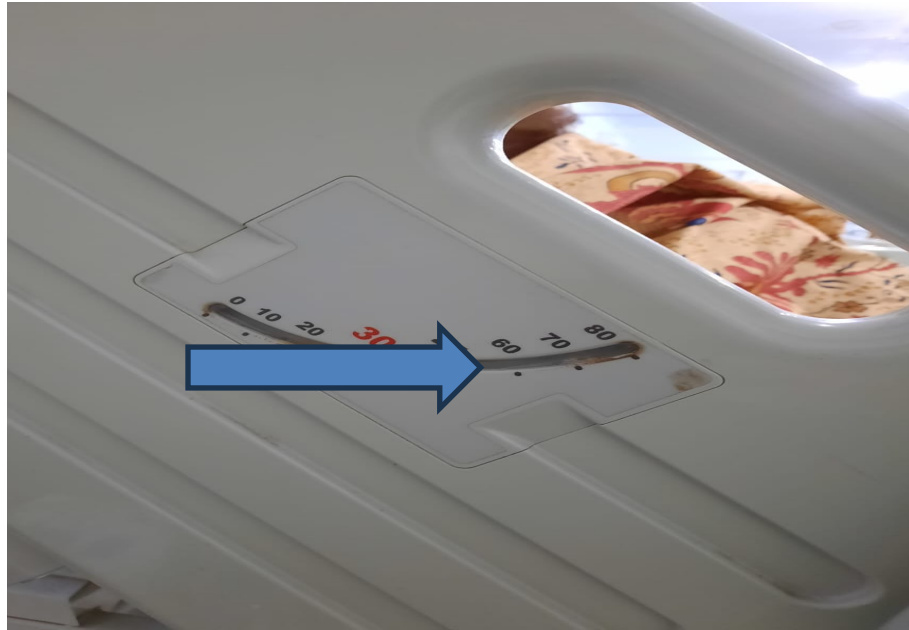
	(Constant)	256.384	228.268		1.123	.294	-270.002	782.770
	Post_Diastol	1.443	1.145	.453	1.259	.243	-1.199	4.084
	Post_RR	-1.653	6.341	-.081	-.261	.801	-16.275	12.970
1	Post_PCO2	-1.194	1.194	-.402	-	.346	-3.946	1.558
					1.000			
	Post_SaO2(mmol/L)	-.164	1.604	-.047	-.102	.921	-3.862	3.535
	Post_FIO2 %	-.690	1.437	-.141	-.480	.644	-4.004	2.624
	Post_PEEP	-24.829	27.449	-.255	-.905	.392	-88.127	38.469
	(Constant)	240.023	153.162		1.567	.152	-106.453	586.498
	Post_Diastol	1.394	.982	.438	1.419	.189	-.828	3.615
	Post_RR	-1.521	5.857	-.075	-.260	.801	-14.770	11.728
2	Post_PCO2	-1.116	.864	-.376	-	.229	-3.070	.839
					1.292			
	Post FIO2 %	-.678	1.351	-.138	-.502	.628	-3.733	2.378
	Post PEEP	-25.184	25.686	-.258	-.980	.352	-83.290	32.922
	(Constant)	236.953	145.411		1.630	.134	-87.042	560.948
HOBE	Post_Diastol	1.444	.917	.453	1.575	.146	-.598	3.487
60 dera-	Post_PCO2	-1.185	.783	-.399	-	.161	-2.930	.561
jat					1.512			
3	Post FIO2 %	-.815	1.183	-.166	-.689	.507	-3.452	1.821
	Post_PEEP	-27.958	22.245	-.287	-	.237	-77.523	21.606
					1.257			
	(Constant)	207.917	135.805		1.531	.154	-90.988	506.821
	Post Diastol	1.230	.841	.386	1.462	.172	-.622	3.082
4	Post_PCO2	-1.186	.764	-.400	-	.149	-2.868	.497
					1.551			
	Post_PEEP	-27.539	21.699	-.282	-	.231	-75.298	20.220
					1.269			
	(Constant)	85.374	97.897		.872	.400	-127.926	298.674
5	Post_Diastol	.987	.840	.310	1.175	.263	-.843	2.817
	Post_PCO2	-1.241	.782	-.418	-	.138	-2.946	.463
					1.587			
	(Constant)	191.737	37.825		5.069	.000	110.021	273.452
6	Post_PCO2	-1.741	.666	-.587	-	.021	-3.180	-.302
					2.613			

Dependent Variable: Post\_PaO2

## LAMPIRAN FOTO PENELITIAN



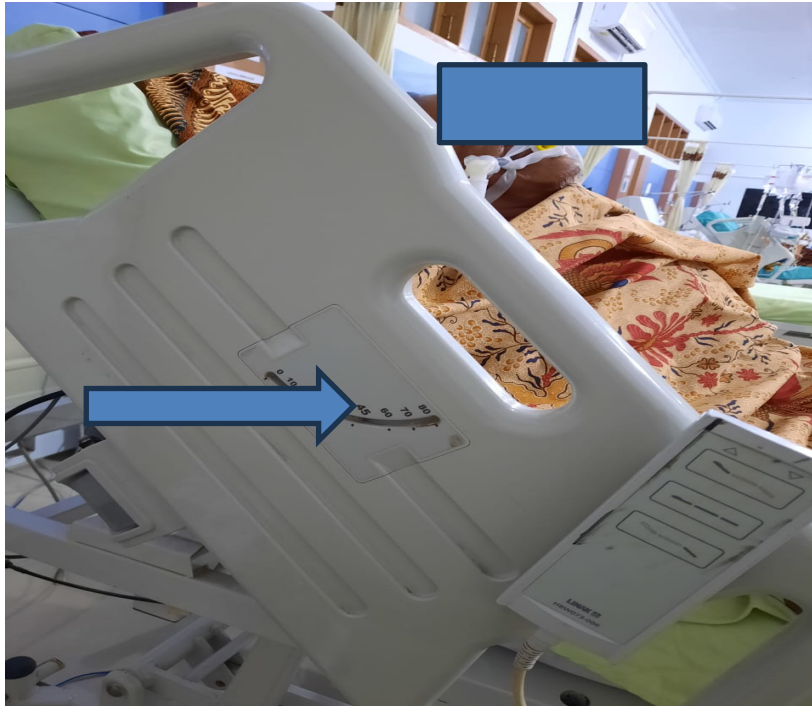
Posisi HOBE 60°



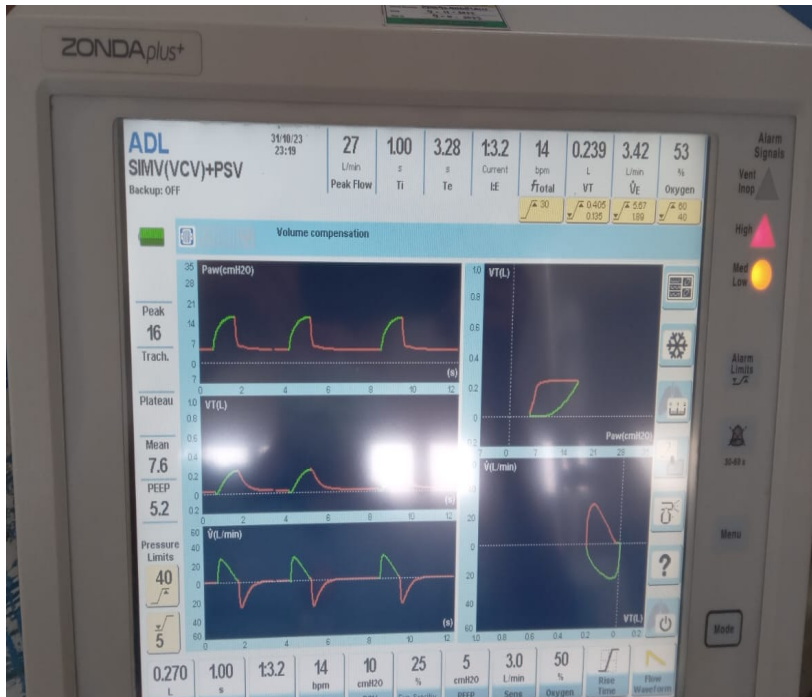
Penentuan Derajat HOBE menggunakan Sotamak Bed



Posisi HOBE 30°



**Pemberian Posisi HOBE 45°**



**Penggunaan ventilator dengan Mode SIMV,RR=15,FiO2=50%**




**Penggunaan Bed side monitor untuk memantau perkembangan kondisi hemodinamik**



108-06-2604/USIA: 19 REGISTER 09-61-93

735-000




PEMERINTAH KABUPATEN POHUWATO

**RUMAH SAKIT UMUM DAERAH BUMI PANUA**

**INSTALASI LABORATORIUM**

Jalan. Dr. Herizal Umar Desa Botubilotzhu Kecamatan Marisa



No Order : 2023101

Nama Pasien : Ny SELVA

Pasien Status : KIS


Golongan : RI

Dokter Pengirim : dr. RACHA

Ruang Pengirim : ICU

Diagnosa :

Nama Test	Hasil	Satuan	Nilai Normal	Keterangan
Analisa Gas Darah				
PCO2	45.4 *	mmHg	35 - 45	
PO2	79 *	mm Hg	80 - 105	
pH	7.309 *		7.35 - 7.45	
HCO3	22.8	mmol/L	22 - 29	
TCO2	24	mmol/L	19-24	
BE	-3	mmol/L	{-2} -3	
SO2	99	mmol/L	>95	



Penerimaan Sampel : 07/10/2023 21:59:18

Dokter Penanggung Jawab

- Laporan
- \* Nilai Abnormal
- \*\* Nilai Kritis

HTB: 12,6

HCT: 37

GDS: 109

K: 4,4

HA: 139

Hta: 1,2

**Sampel analisa gas darah untuk mengukur PaO2**



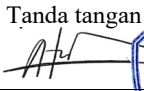

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN  
RISET, DAN TEKNOLOGI  
UNIVERSITAS HASANUDDIN  
FAKULTAS KESEHATAN MASYARAKAT  
Jln.Perintis Kemerdekaan Km.10 Makassar 90245, Telp.(0411) 585658,  
E-mail : [fkm.unhas@gmail.com](mailto:fkm.unhas@gmail.com), website: <https://fkm.unhas.ac.id/>

**REKOMENDASI PERSETUJUAN ETIK**

Nomor: 4722/UN4.14.1/TP.01.02/2023

Tanggal : 7 Agustus 2023

Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

No.Protokol	27723092149	No. Sponsor Protokol	
Peneliti Utama	<b>Amri Rahman</b>	Sponsor	Pribadi
Judul Peneliti	<b>Efektivitas <i>Head Of Bed Elevation (HOBE)</i> terhadap Peningkatan Kadar PaO<sub>2</sub> dan Saturasi Oksigen pada Pasien yang Terpasang Ventilasi Mekanik</b>		
No.Versi Protokol	1	Tanggal Versi	27 Juli 2023
No.Versi PSP	1	Tanggal Versi	27 Juli 2023
Tempat Penelitian	<b>RSUD Bumi panua Gorontalo</b>		
Judul Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard	Masa Berlaku <b>7 Agustus 2023 Sampai 7 Agustus 2024</b>	Frekuensi review lanjutan
Ketua Komisi Etik Penelitian	Nama : Prof.dr.Veni Hadju,M.Sc,Ph.D	Tanda tangan 	Tanggal 7 Agustus 2023
Sekretaris komisi Etik Penelitian	Nama : Dr. Wahiduddin, SKM.,M.Kes	Tanda tangan 	Tanggal 7 Agustus 2023

Kewajiban Peneliti Utama:

1. Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
2. Menyerahkan Laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan Laporan SUSAR dalam 72 Jam setelah Peneliti Utama menerima laporan
3. Menyerahkan Laporan Kemajuan (*progress report*) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
4. Menyerahkan laporan akhir setelah Penelitian berakhir
5. Melaporakn penyimpangan dari protocol yang disetujui (*protocol deviation/violation*)
6. Mematuhi semua peraturan yang ditentukan





KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI  
UNIVERSITAS HASANUDDIN  
FAKULTAS KEPERAWATAN  
Jalan Perintis Kemerdekaan Km.10 Makassar 90245  
Laman: keperawatan@unhas.ac.id

Nomor : 2305/UN4.18.1/PT.01.04/2023  
Lamp : -  
Hal : *Permohonan izin penelitian.-*

04 September 2023

Yth. Direktur RSUD Bumi Panua  
Kabupaten Pohuwato Gorontalo  
di Tempat

Dengan hormat kami sampaikan bahwa mahasiswa Program Studi Magister (S2) Fakultas Keperawatan Universitas Hasanuddin yang tersebut dibawah ini :

Nama : **Amri Rahman, S.Kep.,Ners.**  
Nomor Pokok : **R012221018**  
Program Pendidikan : Magister (S2)  
Program Studi : Keperawatan

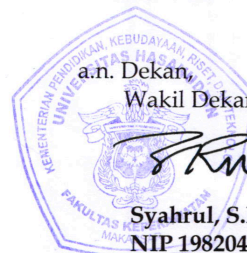
bermaksud melakukan penelitian dalam rangka persiapan penulisan tesis dengan judul "Efektivitas Head Of Bed Elevation (HOBE) Terhadap Peningkatan Kadar Pao2 Dan Saturasi Oksigen Pasien Yang Terpasang Ventilasi Mekanik".

Pembimbing : 1. **Dr.Kadek Ayu Erika, S.Kep.,Ns.,M.Kes.** (Ketua)  
2. **Dr.Yuliana Syam, S.Kep.,Ns.,M.Si.** (Anggota)

Waktu Penelitian : September 2023 sampai sampel terpenuhi

Sehubungan dengan hal tersebut kami mohon kebijaksanaan Bapak/Ibu kiranya berkenan memberi izin kepada yang bersangkutan.

Atas perkenan dan kerjasamanya disampaikan terima kasih.



a.n. Dekan,

Wakil Dekan Bidang Akademik dan Kemahasiswaan. *Y*

*Syahrul*  
**Syahrul, S.Kep.,Ns.,M.Kes.,Ph.D**  
NIP 198204192006041002

Tembusan:

1. Kabag. Tata Usaha
2. Mahasiswa yang bersangkutan
3. Arsip.





**PEMERINTAH KABUPATEN POHUWATO  
BADAN KESATUAN BANGSA DAN POLITIK**

Alamat : Jln. Nani Wartabone Kompleks Perkantoran Blok Plan Marisa Telp. (0443) 210621

**SURAT KETERANGAN PENELITIAN**

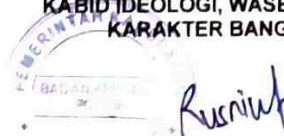
Nomor : 203/KBP/168/ IX /2023

- DASAR :
1. Peraturan Menteri Dalam Negeri Nomor 41 Tahun 2010 tentang Organisasi dan Tata Kerja Kementerian Dalam Negeri (Berita Negara Republik Indonesia Tahun 2010 Nomor 316), sebagaimana telah diubah dengan Peraturan Menteri Dalam Negeri Nomor 41 Tahun 2011 tentang Perubahan atas Peraturan Menteri Dalam Negeri Nomor 41 Tahun 2010 tentang Organisasi dan Tata Kerja Kementerian Dalam Negeri (Berita Negara Republik Indonesia Tahun 2011 Nomor 168)
  2. Peraturan Menteri Dalam Negeri Nomor 3 Tahun 2018 tentang Penerbitan Surat Keterangan Penelitian

MENIMBANG	: Surat dari UNIVERSITAS HASANUDDIN FAKULTAS KEPERAWATAN Nomor : 2795/UN4.18.1/PT.01.04/2023 Tanggal 14 September 2023 tentang Permohonan Rekomendasi Penelitian
NAMA	: AMRI RAHMAN
ALAMAT	: Desa Botubilotahu Kec. Marisa Kab. Pohuwato
PEKERJAAN	: PNS
JABATAN	: Peneliti
NOMOR TELEPON	: -
JUDUL PENELITIAN	: "EFEKTIVITAS HEAD OF BED ELEVATION (HOBE) TERHADAP PENINGKATAN KADAR PaO <sub>2</sub> DAN SATURASI OKSIGEN PADA PASIEN YANG TERPASANG VENTILASI MEKANIK"
BIDANG PENELITIAN	: Bidang Kesehatan
LOKASI PENELITIAN	: RSUD Bumi Panua Pohuwato
WAKTU PENELITIAN	: 15 September s/d 15 November 2023
STATUS	: Baru

Dikeluarkan di : Marisa  
Pada Tanggal : 15 September 2023

a.n **KEPALA BADAN  
KABID IDEOLOGI, WASBANG DAN  
KARAKTER BANGSA**

  
*Rusni N.*  
**RUSNI N. NASUTION, S.Sos.,MM**  
NIP. 19780626 200604 2 021

\* Ketentuan penelitian dan tembusan di halaman belakang

### KETENTUAN PENELITIAN

1. Tidak dibenarkan melakukan Penelitian yang tidak sesuai/tidak ada kaitannya dengan Judul Penelitian dimaksud
2. Apabila masa berlaku Surat Rekomendasi ini sudah berakhir sedangkan pelaksanaan penelitian belum selesai, perpanjangan Penelitian harus diajukan kembali kepada Instansi Pemohon
3. Surat Rekomendasi ini akan dicabut kembali dan dinyatakan tidak berlaku apabila ternyata pemegang Surat Rekomendasi ini tidak mentaati / mengindahkan ketentuan tersebut diatas

#### TEMBUSAN :

1. Yth. Bupati Pohuwato (sebagai laporan)
  2. Yth. Kabag Hukum Setda Pohuwato
  3. Yth. Direktur RSUD Bumi Panua Kab. Pohuwato
  4. Yth. Rektor Universitas Hasanuddin
- Yang bersangkutan



**PEMERINTAH KABUPATEN POHUWATO**  
**RSUD BUMI PANUA**  
**INSTALASI INTENSIF CARE (ICU)**

Alamat: Jln. dr. Herizal Umar Desa Botubulotahu, Kec. Marisa Kab. Pohuwato  
Telp/Fax: (0443) 210880 Email: [rsud.pohuwato@gmail.com](mailto:rsud.pohuwato@gmail.com) Web: [www.rsud.pohuwatokab.go.id](http://www.rsud.pohuwatokab.go.id)

**SURAT KETERANGAN PENANGGUNG JAWAB PENELITIAN**

Saya yang bertanda tangan dibawah ini

Nama Dr Rachmad Ismail, Sp.An.,-Ti

Jabatan **Kepala Instalasi Intensif Care unit (ICU) dan Dokter Penanggung Jawab Pelayanan (DPJP) ICU**

Dengan ini bertanggung jawab atas perubahan kondisi klinis pasien apabila berdampak terhadap intervensi penelitian, penyediaan reagen AGD dan pengambilan sampel analisa gas darah yang dilaksanakan mulai september 2023 sampai dengan februari 2024 oleh

Nama Mahasiswa : Amri Rahman

NIM R012221018

Institusi Fakultas Keperawatan, Universitas Hasanuddin Makassar

Judul Penelitian Efektivitas *Head of Bed Elevation (HOBE)* terhadap Kadar PaO<sub>2</sub> dan saturasi Oksigen pada pasien dengan ventilasi mekanik Di RSUD Bumi Panua Pohuwato

Demikian surat keterangan ini dibuat untuk dipergunakan sebagaimana mestinya

Pohuwato, 20 September 2023

Kepala Instalasi ICU

**Dr. Rachmad Ismail, Sp.An.,-Ti**



**PEMERINTAH KABUPATEN POHUWATO**  
**RSUD BUMI PANUA**

Alamat :Jln. dr. Herizal Umar Desa Botubilotahu, Kec. Marisa Kab. Pohuwato  
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**SURAT KETERANGAN TELAH MELAKUKAN PENELITIAN**

Nomor : **500.2.3.4/RSUD-BP/3/III/2024**

Yang bertanda tangan dibawah ini :

Nama : dr. Yenny Ahmad  
NIP : 197404022008022001  
Pangkat / Gol : Pembina Tk 1 / IV b  
Jabatan : Direktur

Menerangkan bahwa:

Nama : Amri Rahman, S. Kep.,Ners  
Nomor Pokok : R012221018  
Program Studi : S2 Keperawatan  
Perguruan Tinggi : Universitas Hasanuddin

Yang bersangkutan telah selesai melakukan penelitian di Rumah Sakit Umum Daerah Bumi Panua Pohuwato dengan Judul **“Efektivitas Head Of Bed Elevation (HOBE) Terhadap Peningkatan Kadar Pao<sub>2</sub> Dan Saturasi Oksigen Pasien Yang Terpasang Ventilasi Mekanik”**.

Demikian surat keterangan telah melakukan penelitian ini diberikan untuk dipergunakan sebagaimana mestinya.

Marisa, 6 Februari 2024

**DIREKTUR**



**Dr. YENNY AHMAD**  
**NIP.197404022008022001**