

## DAFTAR PUSTAKA

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## LAMPIRAN

### Lampiran 1. Surat Keterangan Lolos Kaji Etik



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

#### REKOMENDASI PERSETUJUAN ETIK

Nomor: 4881/UN4.14.1/TP.01.02/2023

Tanggal: 18 Agustus 2023

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


No. Protokol	10823091261	No. Sponsor Protokol	
Peneliti Utama	<b>Muhamad Hikmat Ilham</b>	Sponsor	Pribadi
Judul Peneliti	<b>Hubungan antara Posisi dan Durasi Kerja Mengemudi terhadap <i>Low Back Pain</i> pada Pengemudi <i>Maxim Bike</i> di Kota Makassar</b>		
No. Versi Protokol	1	Tanggal Versi	10 Agustus 2023
No. Versi PSP	1	Tanggal Versi	10 Agustus 2023
Tempat Penelitian	<b>Kota Makassar</b>		
Judul Review	<input checked="" type="checkbox"/> Exempted <input type="checkbox"/> Expedited <input type="checkbox"/> Fullboard	Masa Berlaku <b>18 Agustus 2023 Sampai 18 Agustus 2024</b>	Frekuensi review lanjutan
Ketua Komisi Etik Penelitian	Nama : Prof.dr.Veni Hadju,M.Sc,Ph.D	Tanda tangan	Tanggal 18 Agustus 2023
Sekretaris komisi Etik Penelitian	Nama : Dr. Wahiduddin, SKM.,M.Kes	Tanda tangan	Tanggal 18 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. Melaporkan penyimpangan dari protocol yang disetujui (*protocol deviation/violation*)
6. Mematuhi semua peraturan yang ditentukan



## Lampiran 2. Surat Izin PTSP Provinsi Sulawesi Selatan




**PEMERINTAH PROVINSI SULAWESI SELATAN**  
**DINAS PENANAMAN MODAL DAN PELAYANAN TERPADU SATU PINTU**  
 Jl. Bougenville No.5 Telp. (0411) 441077 Fax. (0411) 448936  
 Website : <http://simap-new.sulselprov.go.id> Email : [ptsp@sulselprov.go.id](mailto:ptsp@sulselprov.go.id)  
 Makassar 90231

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Nomor	: <b>25786/S.01/PTSP/2023</b>	Kepada Yth.
Lampiran	: -	Walikota Makassar
Perihal	: <b><u>Izin penelitian</u></b>	

di-  
**Tempat**

Berdasarkan surat Dekan Fak. Keperawatan Univ. Hasanuddin Makassar Nomor : 2219/UN4.18.1/PT.01.04/2023 tanggal 20 Juli 2023 perihal tersebut diatas, mahasiswa/peneliti dibawah ini:

N a m a	: <b>MUHAMAD HIKMAT ILHAM</b>	
Nomor Pokok	: R021191024	
Program Studi	: Fisioterapi	
Pekerjaan/Lembaga	: Mahasiswa (S1)	
Alamat	: Jl. P. Kemerdekaan Km 10, Makassar	

Bermaksud untuk melakukan penelitian di daerah/kantor saudara dalam rangka menyusun SKRIPSI, dengan judul :

**" HUBUNGAN ANTARA POSISI DAN DURASI KERJA MENGENUDI TERHADAP LOW BACK PAIN PADA PENGEMUDI MAXIM BIKE DI KOTA MAKASSAR "**

Yang akan dilaksanakan dari : Tgl. **24 Juli s/d 28 Agustus 2023**

Sehubungan dengan hal tersebut diatas, pada prinsipnya kami **menyetujui** kegiatan dimaksud dengan ketentuan yang tertera di belakang surat izin penelitian.

Demikian Surat Keterangan ini diberikan agar dipergunakan sebagaimana mestinya.

Diterbitkan di Makassar  
Pada Tanggal 24 Juli 2023

**KEPALA DINAS PENANAMAN MODAL DAN PELAYANAN TERPADU  
SATU PINTU PROVINSI SULAWESI SELATAN**



**ASRUL SANI, S.H., M.Si.**  
 Pangkat : PEMBINA TINGKAT I  
 Nip : 19750321 200312 1 008

Tembusan Yth

1. Dekan Fak. Keperawatan Univ. Hasanuddin Makassar di Makassar;
2. *Pertinggal.*

Lampiran 3. *Informed Consent*

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**LAMPIRAN**  
Lampiran 1.1 *Informed Consent*

**LEMBAR PERSETUJUAN**


Yang bertanda tangan dibawah ini:

Nama/Inisial : AHMAD TAEDIK  
Usia : 33 Tahun  
Jenis Kelamin : L

Setelah mendapatkan penjelasan dari peneliti terkait pemeriksaan yang akan diberikan, saya bersedia menjadi responden penelitian yang berjudul "Hubungan antara Posisi dan Durasi Kerja Mengemudi terhadap *Low Back Pain* pada Pengemudi Maxim *bike* di kota Makassar" yang akan dilakukan oleh Muhamad Hikmat Ilham, mahasiswa Program Studi SI Fisioterapi Fakultas Keperawatan Universitas Hasanuddin.

Demikian lembar persetujuan ini dibuat dengan penuh kesadaran dan tanpa dipaksa dari pihak lain untuk dipergunakan sebagaimana mestinya.

Makassar, Juli 2023  
Responden

(  )

Universitas Hasanuddin



## Lampiran 4. Formulir Pengukuran IMT

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Lampiran 1.3 Formulir Pengukuran IMT

**FORMULIR PENGUKURAN INDEKS MASA TUBUH**

Tanggal :: \_\_\_\_\_

Nama : AHMAD HEDIE  
 Usia : 33 TAHUN  
 Jenis Kelamin : L  
 Tinggi Badan : 160  
 Berat Badan : 55

Rumus menentukan IMT yaitu:  $21,484$

$$IMT = \frac{BB \text{ (kg)}}{TB^2 \text{ (cm)}}$$

**Kategori Indeks Masa Tubuh (IMT)**

Klasifikasi	IMT (kg/m <sup>2</sup> )
<i>Underweight</i>	<18,5
Normal	18,5 – 22,9
<i>Overweight</i>	23,0 – 24,9
Obesitas I	25,0 – 29,9
Obesitas II	>30,0

Sumber: (<https://apps.who.int>, 2023)

Universitas Hasanuddin

Lampiran 5. Formulir *The Keele Start Back Screening Tool*

**Alat Skrining Keele STAR Back**

Nama Pasien: AHMAD TAUDE Tanggal: 25 Juli 2023

Pikirkan tentang apa yang Anda rasakan dalam 2 pekan terakhir dan beri tanda centang pada jawaban Anda untuk pertanyaan-pertanyaan berikut:

	Tak Setuju 0	Setuju 1
1 Nyeri punggung saya menyebar ke arah kaki (atau kedua kaki) saya sesekali dalam 2 pekan terakhir	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2 Saya mengalami nyeri di bahu atau leher sesekali dalam 2 minggu terakhir	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3 Saya hanya bisa berjalan kaki pada jarak dekat karena nyeri punggung saya	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 Dalam 2 minggu terakhir, saya memakai baju lebih lambat dari biasanya karena nyeri punggung	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5 Rasanya tidak aman bagi orang dengan kondisi seperti saya untuk aktif secara fisik	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Pikiran-pikiran yang mengkhawatirkan sering sekali melintas dipikiran saya	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7 Saya merasa nyeri punggung saya sangat parah dan tidak akan pernah membaik	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8 Secara umum, saya belum menikmati semua hal yang biasa saya nikmati	<input checked="" type="checkbox"/>	<input type="checkbox"/>

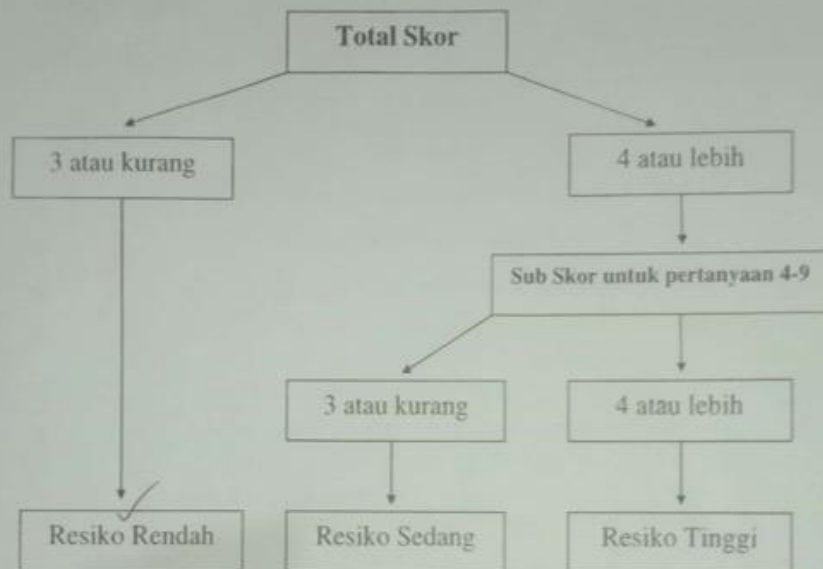
9. Secara keseluruhan, seberapa mengganggu nyeri punggung Anda dalam 2 minggu terakhir?

Tidak sama sekali 0	Cukup 0	Sedang 0	Sangat 1	Luar Biasa 1
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total skor (semua 9 pertanyaan): \_\_\_\_\_ Sub Skor (pertanyaan 5-9): \_\_\_\_\_

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Didanai oleh Arthritis Research UK

### Sistem Penilaian Alat *StarT Back*



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Didanai oleh Arthritis Research UK

Masukkan 10 April 2023  
di UPT Layanan Bahasa Universitas Hasanuddin  
Dr. Hardiyaty, M.Hum., M.A., Ph.D.  
Kepala

Lampiran 6. Formulir *BRIEF survey*

**BRIEF™ Survey – BASELINE RISK IDENTIFICATION OF ERGONOMIC FACTORS** STASE ERGONOMI 2021

**Langkah 1** Mengisi Informasi umum

Nama Pekerjaan: ANIMASI TAKRIK Situs: \_\_\_\_\_ Stasiun: MAMIN BIKE  
 Tanggal: 25 JUNI 2022 Dept: \_\_\_\_\_ Shift: 07.00-17.00 Produk: \_\_\_\_\_

**Langkah 2** Identifikasi risiko

2a. tanda kotak postur dan faktor ketika faktor risiko di observasi. 2b. untuk bagian tubuh yang sudah ditandai, cek di kotak durasi dan frekuensi ketika sudah mencapai batas	Tangan dan Pergelangan		Siku		Bahu		Leher	Punggung		Kaki
	Kiri	Kanan	Kiri	Kanan	Kiri	Kanan	Ekstensi	Beperut	Beperut	Tidak-Terdukung
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>2c. Gaya Keluaran</b>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>2d. Durasi</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>2e. Frekuensi</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>2f. Sifat</b>										
<b>Risiko</b>	M	L	M	L	M	L	M	L	M	L

**Langkah 3** Tentukan Tingkat Risiko

Pada kotak skor, tulis nilai faktor risiko (0-4) yang telah di cek di tiap bagian tubuh

Identifikasi Stresor Fisik

Getaran (L)  
 Suhu rendah (L)  
 Kompresi Jaringan Lunak (C)  
 Dampak stress (I)  
 Masalah sarung tangan (G)

Gunakan huruf yang Sesuai untuk lokasi Pemicu stress

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## Lampiran 7. Surat Keterangan Telah Menyelesaikan Penelitian

**MAXIM TRANSPORTASI ONLINE**  
Komplek Ruko Celebes M23 Jl. Tun Abdul Razak  
Tombolo Gowa  
Tlp : 081355578108

---

**SURAT KETERANGAN PENELITIAN**

Nomor : 013/ Maxim Kota Makassar / Agustus / 2023

Yang bertandatangan dibawah ini Ketua Bank Sulselbar Football Club Menerangkan bahwa :

Nama	: Muhamad Hikmat Ilham
Tempat Tanggal Lahir	: Kendari, 25 Oktober 2001
Nomor Pokok	: R021191024
Jenis Kelamin	: Laki-laki
Pekerjaan	: Mahasiswa (S1)
Program Studi	: S1 Fisioterapi
Alamat	: Indekost Niwa, Jalan Perintis Kemerdekaan VII

Telah mengadakan penelitian dalam rangka Penyusunan Skripsi di Maxim Kota Makassar dengan judul :

**“ HUBUNGAN ANTARA POSISI DAN DURASI KERJA MENGEMUDITERHADAP  
LOW BACK PAIN PADA PENGEMUDI MAXIM BIKE DI KOTA  
MAKASSAR “**

Demikian surat keterangan ini diberikan untuk di pergunakan sebagai mana mestinya.

Makassar, 06 September 2023.

  
  
**Senja Gautama Iswadi**  
Head Of Business Unit,  
PT. Teknologi Perdana Indonesia

**maxim**

## Lampiran 8. Hasil Uji SPSS

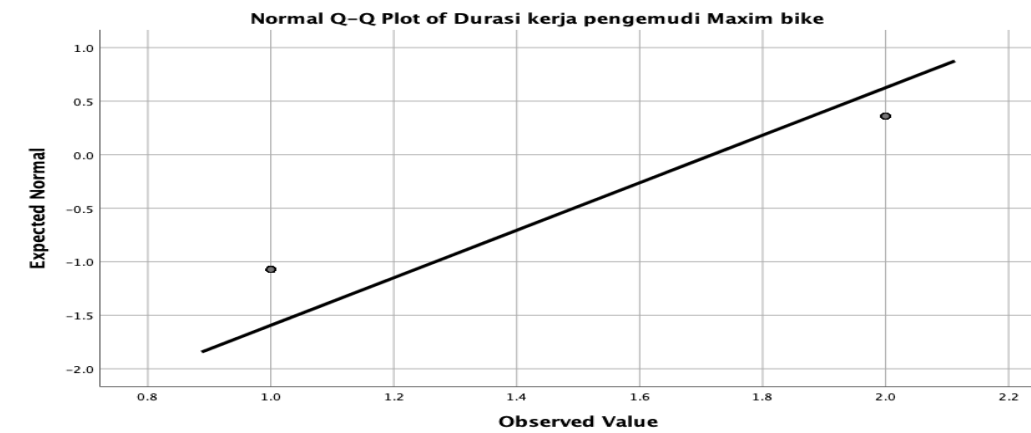
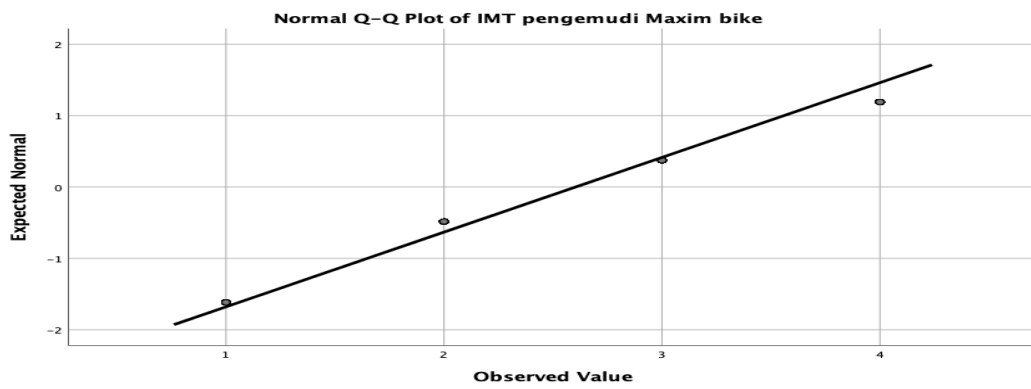
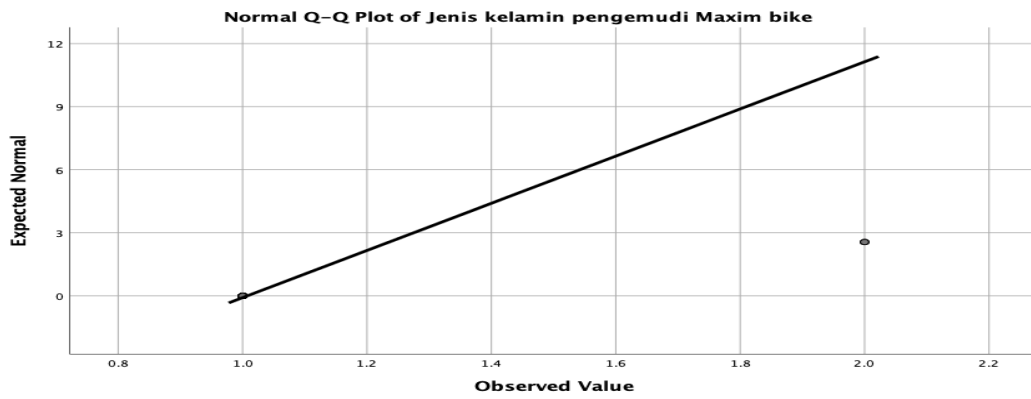
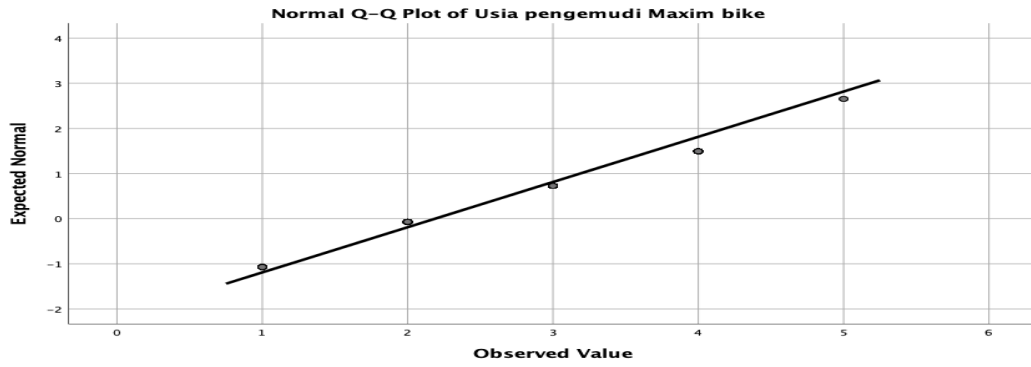
Usia pengemudi Maxim bike					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Kelompok usia muda	106	28,2	28,2	28,2
	Kelompok usia pekerja awal	143	38,0	38,0	66,2
	Kelompok usia paruh baya	79	21,0	21,0	87,2
	Kelompok usia pra-pensiun	46	12,2	12,2	99,5
	Kelompok usia pensiun	2	0,5	0,5	100,0
	Total	376	100,0	100,0	

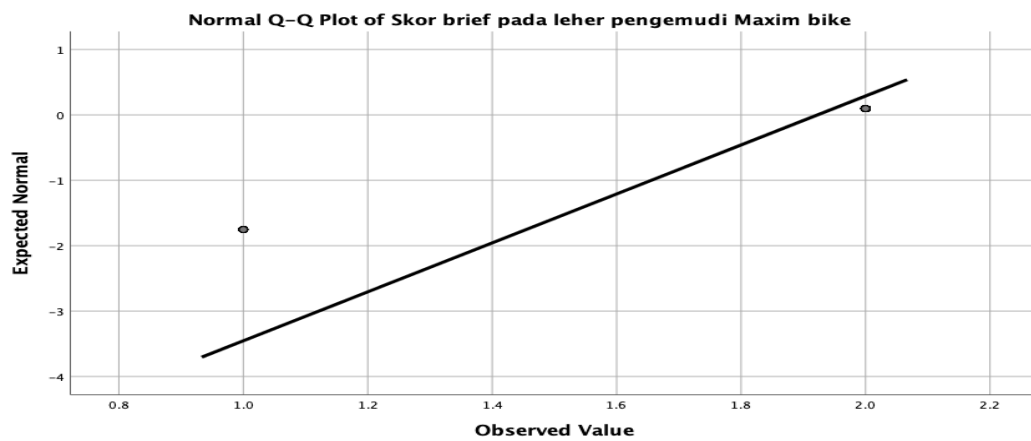
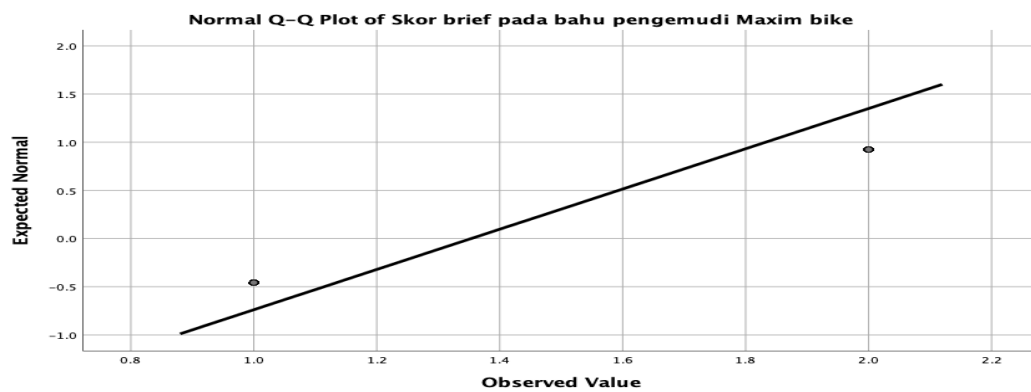
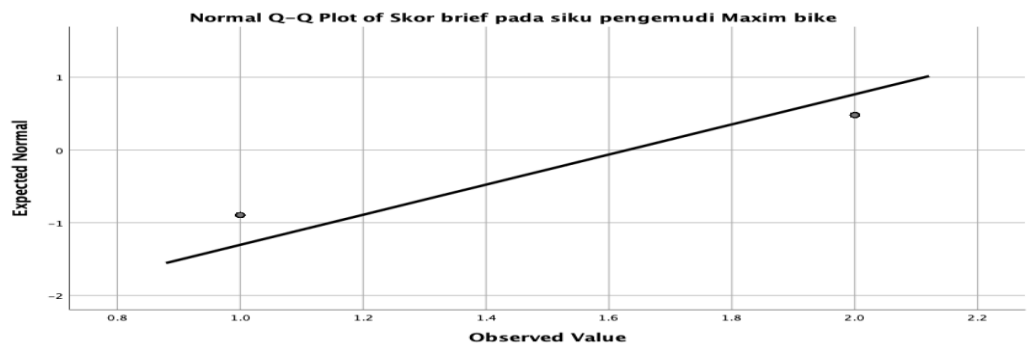
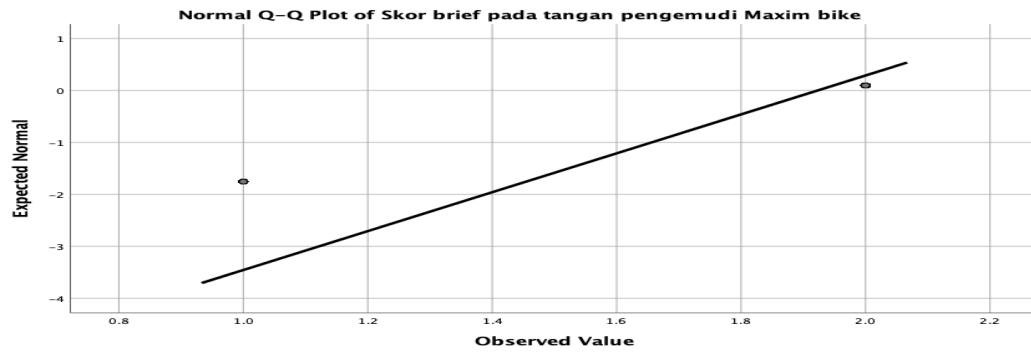
Jenis kelamin pengemudi Maxim bike					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Laki-laki	373	99,2	99,2	99,2
	Perempuan	3	0,8	0,8	100,0
	Total	376	100,0	100,0	

IMT pengemudi Maxim bike					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Underweight	39	10,4	10,4	10,4
	Normal	158	42,0	42,0	52,4
	Overweight	92	24,5	24,5	76,9
	Obesitas I	87	23,1	23,1	100,0
	Total	376	100,0	100,0	

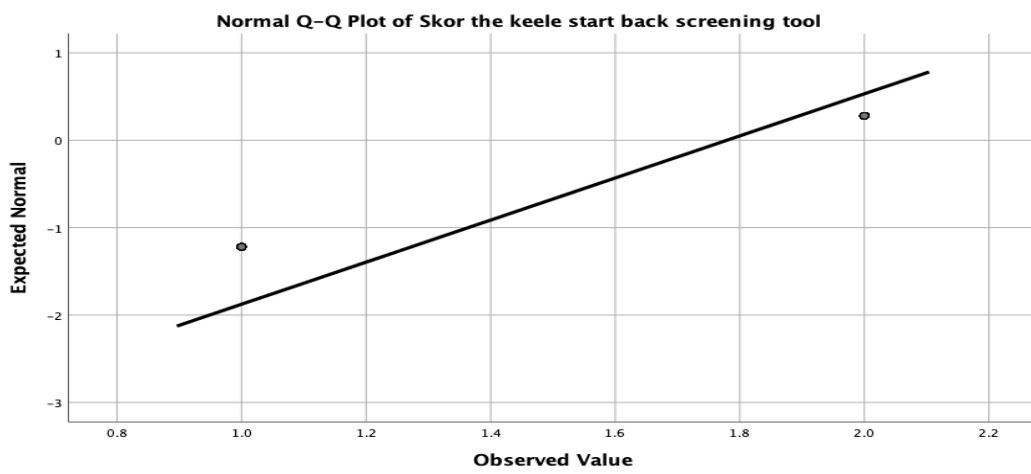
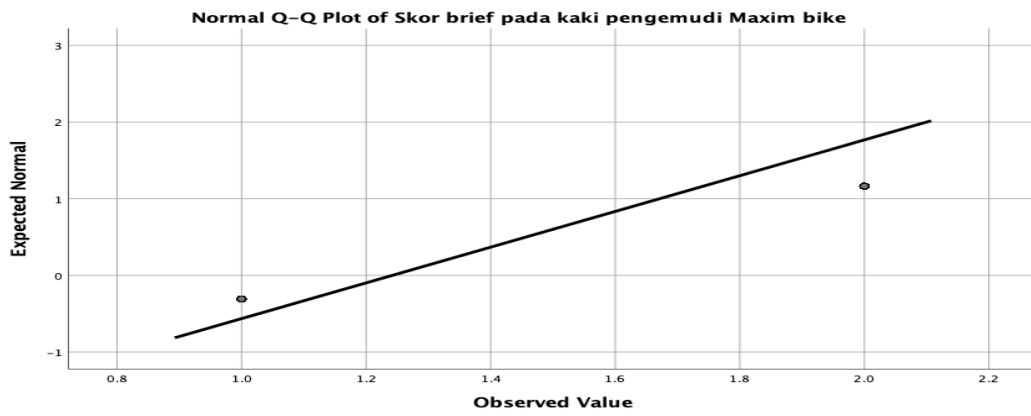
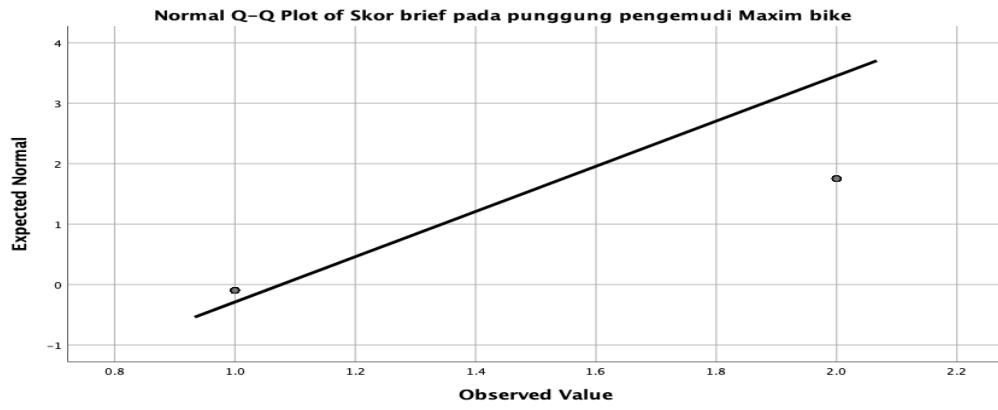
Durasi kerja pengemudi Maxim bike					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bekerja selama 8 jam atau kurang dari 8 jam	106	28,2	28,2	28,2
	Bekerja lebih dari 8 jam	270	71,8	71,8	100,0
	Total	376	100,0	100,0	

Skor the keele start back screening tool					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Risiko rendah	83	22,1	22,1	22,1
	Risiko sedang	293	77,9	77,9	100,0
	Total	376	100,0	100,0	









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	Usia	JenisKelamin	IMT	DurasiKerja	KBTangan	SBSuku	SBBahu	SBIleher	SBPunggung	SBSiku	SkeletorAntBcksSeering								
1	2	1	2	2	2	2	1	2	1	1	2								
2	3	1	3	2	2	2	1	2	1	1	2								
3	4	1	3	2	2	2	1	2	1	1	2								
4	3	1	2	2	2	2	1	2	1	1	2								
5	2	1	1	1	2	2	1	2	1	1	2								
6	2	1	1	1	2	2	1	2	1	1	2								
7	4	1	2	2	2	2	1	2	1	2	2								
8	2	1	3	2	2	2	1	2	1	2	2								
9	3	1	2	2	2	2	1	2	1	1	2								
10	4	1	1	2	2	2	1	2	2	1	2								
11	2	1	4	2	2	1	1	2	1	1	2								
12	2	1	2	2	2	2	1	2	1	1	2								
13	2	1	3	2	2	1	1	2	1	1	2								
14	1	1	2	2	2	1	1	2	1	1	2								
15	2	1	3	2	2	1	1	2	1	1	2								
16	2	1	2	2	2	2	1	2	1	2	2								
17	2	1	2	2	2	2	1	2	1	1	2								
18	4	1	3	2	2	2	1	2	1	2	2								
19	2	1	2	2	2	2	2	2	1	1	2								
20	1	1	2	2	2	1	1	2	1	2	2								
21	3	1	1	2	2	1	1	2	1	1	2								
22	1	1	4	2	2	2	1	2	1	1	2								
23	2	1	4	2	2	2	1	2	1	1	2								
24	2	1	2	2	2	1	1	2	1	1	2								
25	2	1	2	2	2	2	2	2	1	1	2								

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	Usia	JenisKelamin	IMT	DurasiKerja	KBTangan	SBSuku	SBBahu	SBIleher	SBPunggung	SBSiku	SkeletorAntBcksSeering								
26	2	1	2	2	2	1	1	2	1	2	2								
27	3	1	2	2	2	2	1	2	1	1	2								
28	3	1	2	2	2	2	1	2	1	1	2								
29	2	1	2	1	2	2	2	2	1	2	2								
30	2	1	4	2	2	1	1	2	1	1	2								
31	2	1	1	2	2	1	1	2	1	2	2								
32	3	1	4	2	2	1	1	2	1	1	2								
33	3	1	4	2	2	2	2	2	1	1	2								
34	3	1	4	2	2	1	1	2	1	1	2								
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44	1	1	4	2	2	2	1	2	1	1	1								
45	1	1	2	2	2	2	2	2	1	1	2								
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47	2	1	3	2	2	2	1	2	1	2	2								
48	2	1	2	2	2	2	1	2	1	2	2								
49	2	1	3	2	2	1	1	2	1	1	2								
50	2	1	4	2	2	2	2	2	1	1	2								

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Koding data penelitian Hil.sav [DataSet1] - IBM SPSS Statistics Data Editor  
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	Usia	JenisKelamin	IMT	DurasiKerja	KBTangan	SBSuku	SBBahu	SBIleher	SBPunggung	SBSiku	SkeletorAntBcksSeering								
51	2	1	2	2	2	2	1	2	1	2	2								
52	3	1	2	1	2	2	2	2	1	2	2								
53	2	1	3	2	2	2	1	2	1	1	2								
54	3	1	2	2	2	2	1	2	1	2	2								
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57	2	1	2	2	2	2	2	2	1	1	2								
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59	1	1	2	1	2	2	1	2	1	2	1								
60	1	1	4	2	2	2	2	2	1	1	1								
61	3	1	3	2	2	2	1	2	1	1	2								
62	1	1	2	1	2	1	1	2	1	1	1								
63	2	1	2	2	2	2	1	2	1	1	2								
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65	4	1	4	2	2	2	1	2	1	1	2								
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67	2	1	1	2	2	2	1	2	1	2	2								
68	1	1	4	1	2	2	2	2	1	1	1								
69	4	1	4	2	2	2	1	2	1	1	2								
70	2	1	3	2	2	2	1	2	1	2	2								
71	2	1	2	2	2	1	2	2	1	2	2								
72	4	1	4	2	2	2	2	2	1	1	2								
73	2	1	2	2	2	1	1	2	1	2	2								
74	3	1	2	1	2	2	1	2	1	2	2								
75	2	1	3	2	2	2	1	2	1	1	2								

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	Usia	Imnikel amin	IMT	DurasiK erja	KETang an	SBSiku	SBBahu	Sleleher	SBPumg ung	SBLaki	SkeleSe artBack Screening								
76	4	1	3	2	2	1	2	2	1	1	1								
77	1	1	2	2	2	1	1	2	1	1	1								
78	1	1	2	1	2	2	1	2	1	2	1								
79	1	1	2	2	2	2	1	2	1	2	2								
80	1	1	2	2	2	1	2	2	1	2	1								
81	1	1	2	2	2	1	2	2	1	1	1								
82	1	1	2	2	2	2	2	2	1	1	2								
83	1	1	4	2	2	1	1	2	1	1	1								
84	1	1	4	2	2	1	1	2	1	1	1								
85	1	1	2	1	2	2	1	2	1	2	1								
86	2	1	2	1	2	2	2	2	1	2	1								
87	1	1	2	1	2	2	1	2	1	2	1								
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89	1	1	2	2	2	1	2	2	1	1	1								
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91	1	1	2	2	2	2	1	2	1	1	2								
92	2	1	4	2	2	1	1	2	1	1	2								
93	2	1	1	2	2	2	1	2	1	1	1								
94	1	1	3	1	2	1	1	2	1	1	1								
95	1	1	4	1	2	2	2	2	1	1	1								
96	2	1	4	2	2	1	1	2	1	2	1								
97	2	1	1	2	2	1	1	2	1	2	2								
98	1	1	1	2	2	2	2	2	1	2	1								
99	2	1	3	2	2	1	1	2	1	2	2								
100	1	1	3	1	2	2	1	2	1	2	1								

Koding data penelitian Hil.sav [DataSet1] - IBM SPSS Statistics Data Editor

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	Usia	Imnikel amin	IMT	DurasiK erja	KETang an	SBSiku	SBBahu	Sleleher	SBPumg ung	SBLaki	SkeleSe artBack Screening								
101	1	1	1	2	2	2	1	2	1	1	1								
102	1	1	3	1	2	2	1	2	1	1	1								
103	1	1	2	1	2	1	2	1	1	1	1								
104	4	1	3	2	2	2	1	2	1	1	2								
105	3	1	2	2	2	2	1	2	1	1	2								
106	3	1	2	1	2	1	2	2	1	1	2								
107	4	1	1	2	2	2	1	2	1	1	2								
108	2	1	3	2	2	1	2	2	1	1	2								
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111	2	1	4	2	2	1	2	2	1	1	2								
112	1	1	2	2	2	1	1	2	1	1	2								
113	1	1	4	1	2	2	1	2	1	1	1								
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123	2	1	1	2	2	1	1	2	1	1	2								
124	3	1	2	2	2	1	1	2	1	1	2								
125	4	1	2	2	2	1	2	2	1	1	2								

Koding data penelitian Hil.sav [DataSet1] - IBM SPSS Statistics Data Editor

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	Usia	Imnikel amin	IMT	DurasiK erja	KETang an	SBSiku	SBBahu	Sleleher	SBPumg ung	SBLaki	SkeleSe artBack Screening	VAR000 01	VAR000 02	VAR000 03	VAR000 04	VAR000 05	VAR000 06	VAR000 07	VAR000 08	VAR 000 09
126	1	1	4	2	2	2	1	2	1	1	2									
127	1	1	4	2	2	2	1	2	1	1	2									
128	1	1	4	2	2	1	1	2	1	1	2									
129	4	1	1	2	2	2	1	2	1	1	2									
130	4	1	3	2	2	1	2	2	1	1	2									
131	3	1	2	2	2	1	2	2	1	2	2									
132	4	1	2	2	2	1	1	2	1	2	2									
133	2	1	4	2	2	1	2	2	1	1	2									
134	3	1	3	2	2	2	2	2	1	2	2									
135	4	1	2	2	2	2	1	2	1	1	2									
136	3	1	4	2	2	2	2	2	1	1	2									
137	4	1	3	1	2	2	1	2	1	2	2									
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140	4	1	3	2	2	1	1	2	1	2	2									
141	3	1	2	2	2	2	2	2	1	2	2									
142	4	1	3	2	2	2	1	2	1	2	2									
143	4	1	3	2	2	2	2	2	1	2	2									
144	4	1	2	2	2	2	1	2	1	2	2									
145	3	1	3	2	2	2	2	2	1	1	2									
146	3	1	2	2	2	2	1	2	1	1	2									
147	5	1	2	2	2	2	1	2	1	1	2									
148	2	1	3	1	2	2	2	2	1	1	2									
149	3	1	2	2	2	1	1	2	1	2	2									
150	4	1	2	2	2	1	1	2	1	1	2									

Koding data penelitian Hii.sav [DataSet1] - IBM SPSS Statistics Data Editor

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#	##	Usia	JenisKelamin	IMT	DurasiKeja	KETangan	SBSku	SBahu	SLeher	SPunggung	SBaki	SkalaSkala	SkalaSkalaSeering	VAR00001	VAR00002	VAR00003	VAR00004	VAR00005	VAR00006	VAR00007	VAR00008	VAR00009	
151	4	1	4	2	2	1	2	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
152	3	1	4	2	2	2	1	2	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-
153	3	1	3	2	2	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-
154	4	1	3	2	2	2	2	1	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-
155	3	1	4	2	2	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-
156	4	1	2	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
157	3	1	1	2	2	2	1	2	1	1	2	1	-	-	-	-	-	-	-	-	-	-	-
158	3	1	3	2	2	2	1	2	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-
159	4	1	4	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-
160	4	1	3	2	2	2	1	2	1	2	2	2	-	-	-	-	-	-	-	-	-	-	-
161	4	1	2	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-
162	3	1	4	2	2	2	1	2	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-
163	2	1	4	2	2	2	2	2	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-
164	3	1	2	2	2	2	1	2	1	2	1	2	-	-	-	-	-	-	-	-	-	-	-
165	3	1	2	2	2	2	1	2	1	2	1	2	-	-	-	-	-	-	-	-	-	-	-
166	4	1	4	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-
167	3	1	3	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
168	3	1	1	2	2	2	2	1	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-
169	4	1	3	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-
170	4	1	3	2	2	2	1	2	1	2	1	2	-	-	-	-	-	-	-	-	-	-	-
171	5	1	4	2	2	1	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-
172	1	1	3	1	2	1	1	2	1	1	2	1	-	-	-	-	-	-	-	-	-	-	-
173	1	1	4	1	1	1	1	1	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-
174	2	1	3	1	1	1	2	1	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-
175	2	1	4	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-

Koding data penelitian Hii.sav [DataSet1] - IBM SPSS Statistics Data Editor

Visible: 20 of 20 Variables

#	##	Usia	JenisKelamin	IMT	DurasiKeja	KETangan	SBSku	SBahu	SLeher	SPunggung	SBaki	SkalaSkala	SkalaSkalaSeering	VAR00001	VAR00002	VAR00003	VAR00004	VAR00005	VAR00006	VAR00007	VAR00008	VAR00009	
176	1	1	4	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
177	1	1	3	1	2	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-
178	1	1	4	1	2	1	1	1	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-
179	1	1	4	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-
180	1	1	3	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
181	1	1	4	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
182	2	1	2	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-
183	2	1	3	2	2	2	1	2	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-
184	1	1	4	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
185	1	1	4	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
186	2	1	3	2	2	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-
187	1	1	3	2	2	2	1	2	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-
188	2	1	2	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-
189	1	1	2	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
190	2	1	2	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
191	1	1	4	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
192	1	1	3	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
193	1	1	3	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
194	1	1	2	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
195	1	1	2	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-
196	1	1	3	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
197	2	1	3	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
198	1	1	2	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-
199	2	1	3	2	2	2	2	2	2	1	2	2	-	-	-	-	-	-	-	-	-	-	-
200	1	1	3	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-

Koding data penelitian Hii.sav [DataSet1] - IBM SPSS Statistics Data Editor

Visible: 20 of 20 Variables

#	##	Usia	JenisKelamin	IMT	DurasiKeja	KETangan	SBSku	SBahu	SLeher	SPunggung	SBaki	SkalaSkala	SkalaSkalaSeering	VAR00001	VAR00002	VAR00003	VAR00004	VAR00005	VAR00006	VAR00007	VAR00008	VAR00009	
201	1	1	2	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
202	2	1	2	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
203	2	1	2	1	2	1	1	1	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-
204	2	1	3	2	2	2	1	2	1	2	2	2	-	-	-	-	-	-	-	-	-	-	-
205	2	1	2	2	2	2	1	2	1	1	2	2	-	-	-	-	-	-	-	-	-	-	-
206	1	1	4	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-
207	1	1	4	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
208	1	1	2	2	2	2	1	2	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-
209	1	1	3	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
210	2	1	2	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
211	1	1	3	1	2	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-
212	1	1	4	1	2	2	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-
213	2	1	3	1	2	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-
214	2	1	4	1	1	2	1	1	1	1	2	1	-	-	-	-	-	-	-	-	-	-	-
215	2	1	3	2	1	1	1	1	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-
216	2	1	4	1	1	1	1	1	1	1	2	1	-	-	-	-	-	-	-	-	-	-	-
217	1	1	2	1	1	1	1	1	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-
218	2	1	3	2	1	1	1	2	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-
219	1	1	3	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
220	1	1	4	1	1	2	1	2	1	2	2	1	-	-	-	-	-	-	-	-	-	-	-
221	4	1	3	2	2	2	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
222	4	1	4	2	2	2	1	2	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-
223	1	1	3	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-
224	3	1	1	2	2	2	2	2	2	1	2	2	-	-	-	-	-	-	-	-	-	-	-
225	4	1	2	2	2	2	2	1	2	1	2	2	-	-	-	-	-	-	-	-	-	-	-

Koding data penelitian Hii.sav [DataSet1] - IBM SPSS Statistics Data Editor

#	Usia	JenisKelamin	MT	DurasiKerja	KETangan	SBuku	SBSahu	SBLelher	SBPunggung	SBkaki	SkeletorAnkaks Screening	VAR000 01	VAR000 02	VAR000 03	VAR000 04	VAR000 05	VAR000 06	VAR000 07	VAR000 08	VAR000 09
226	1	1	2	2	2	1	2	2	1	1	2	-	-	-	-	-	-	-	-	-
227	1	1	4	2	2	2	1	2	1	2	1	1	2	-	-	-	-	-	-	-
228	2	1	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-
229	3	1	2	2	2	1	2	2	1	2	1	1	2	-	-	-	-	-	-	-
230	1	1	2	1	2	2	1	2	1	2	1	1	2	-	-	-	-	-	-	-
231	1	1	4	1	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-
232	4	1	3	2	2	1	2	2	1	2	1	1	2	-	-	-	-	-	-	-
233	3	1	2	2	2	2	1	2	1	1	2	-	-	-	-	-	-	-	-	-
234	1	1	3	1	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-
235	1	1	3	1	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
236	2	1	2	2	2	1	2	2	1	1	2	-	-	-	-	-	-	-	-	-
237	3	1	2	2	2	2	1	2	1	1	2	-	-	-	-	-	-	-	-	-
238	4	1	3	1	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-
239	2	1	4	2	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
240	1	1	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-
241	1	1	4	2	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
242	1	1	1	2	2	2	2	2	1	2	1	2	-	-	-	-	-	-	-	-
243	2	1	2	2	1	1	1	2	1	2	1	1	2	-	-	-	-	-	-	-
244	2	1	2	1	1	2	1	2	2	1	1	-	-	-	-	-	-	-	-	-
245	2	1	3	2	1	1	2	1	2	1	1	-	-	-	-	-	-	-	-	-
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247	3	1	2	1	1	2	2	1	2	1	1	-	-	-	-	-	-	-	-	-
248	3	1	4	1	1	1	1	1	1	2	1	1	2	-	-	-	-	-	-	-
249	3	1	4	1	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-
250	2	1	2	1	2	2	2	2	1	2	1	-	-	-	-	-	-	-	-	-

Koding data penelitian Hii.sav [DataSet1] - IBM SPSS Statistics Data Editor

#	Usia	JenisKelamin	MT	DurasiKerja	KETangan	SBuku	SBSahu	SBLelher	SBPunggung	SBkaki	SkeletorAnkaks Screening	VAR000 01	VAR000 02	VAR000 03	VAR000 04	VAR000 05	VAR000 06	VAR000 07	VAR000 08	VAR000 09
256	2	1	2	1	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-
257	2	1	1	1	2	2	2	2	1	2	1	2	-	-	-	-	-	-	-	-
258	3	1	2	2	2	1	1	2	1	2	2	-	-	-	-	-	-	-	-	-
259	3	1	3	1	2	2	1	2	1	2	2	-	-	-	-	-	-	-	-	-
260	2	1	3	1	2	1	2	1	2	1	1	2	-	-	-	-	-	-	-	-
261	2	1	3	2	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
262	2	1	1	2	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
263	2	1	2	2	2	1	2	2	1	1	2	-	-	-	-	-	-	-	-	-
264	2	1	3	2	2	1	2	2	1	2	1	2	-	-	-	-	-	-	-	-
265	2	1	2	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-
266	2	1	2	2	2	2	1	2	2	1	1	2	-	-	-	-	-	-	-	-
267	2	1	2	2	2	1	2	2	1	1	2	-	-	-	-	-	-	-	-	-
268	2	1	3	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-
269	2	1	3	2	2	1	1	1	2	1	2	-	-	-	-	-	-	-	-	-
270	3	1	3	2	2	1	2	2	1	2	1	2	-	-	-	-	-	-	-	-
271	3	1	2	2	1	1	1	2	1	2	2	-	-	-	-	-	-	-	-	-
272	2	1	4	1	2	2	2	2	1	2	2	-	-	-	-	-	-	-	-	-
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274	2	1	2	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-
275	2	1	1	2	2	2	1	2	1	2	2	-	-	-	-	-	-	-	-	-
276	2	1	2	2	2	1	2	2	1	1	2	-	-	-	-	-	-	-	-	-
277	3	1	1	2	2	1	2	2	1	2	2	-	-	-	-	-	-	-	-	-
278	2	1	2	2	2	1	1	2	1	2	2	-	-	-	-	-	-	-	-	-
279	3	1	2	1	2	2	2	2	2	1	2	-	-	-	-	-	-	-	-	-
280	3	1	4	2	2	2	1	2	1	1	2	-	-	-	-	-	-	-	-	-

Koding data penelitian Hii.sav [DataSet1] - IBM SPSS Statistics Data Editor

#	Usia	JenisKelamin	MT	DurasiKerja	KETangan	SBuku	SBSahu	SBLelher	SBPunggung	SBkaki	SkeletorAnkaks Screening	VAR000 01	VAR000 02	VAR000 03	VAR000 04	VAR000 05	VAR000 06	VAR000 07	VAR000 08	VAR000 09
279	3	1	3	2	1	2	2	2	1	2	2	-	-	-	-	-	-	-	-	-
280	3	1	4	2	2	2	1	2	1	2	1	1	2	-	-	-	-	-	-	-
281	2	1	3	2	2	1	2	2	1	1	2	-	-	-	-	-	-	-	-	-
282	2	1	2	2	2	2	1	2	1	2	1	2	-	-	-	-	-	-	-	-
283	4	1	3	2	2	2	1	2	1	1	2	-	-	-	-	-	-	-	-	-
284	4	1	3	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-
285	2	1	2	2	2	2	1	2	1	1	2	-	-	-	-	-	-	-	-	-
286	2	1	2	1	2	1	2	1	2	1	1	2	-	-	-	-	-	-	-	-
287	1	1	2	1	1	1	1	2	2	2	1	-	-	-	-	-	-	-	-	-
288	1	1	3	1	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
289	1	1	3	1	2	1	2	1	1	2	1	1	2	-	-	-	-	-	-	-
290	1	1	2	1	2	2	2	2	2	1	1	-	-	-	-	-	-	-	-	-
291	1	1	2	2	2	1	1	1	2	1	1	2	-	-	-	-	-	-	-	-
292	1	1	3	2	2	2	2	2	2	1	1	-	-	-	-	-	-	-	-	-
293	1	1	2	2	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
294	1	1	4	1	1	2	1	2	2	1	1	-	-	-	-	-	-	-	-	-
295	2	1	2	1	1	1	1	2	1	2	1	1	-	-	-	-	-	-	-	-
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297	2	1	2	2	2	1	1	2	2	1	1	1	-	-	-	-	-	-	-	-
298	1	1	4	1	2	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
299	2	1	2	1	1	2	1	1	1	1	1	-	-	-	-	-	-	-	-	-
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302	3	1	3	2	2	2	1	2	1	2	2	-	-	-	-	-	-	-	-	-
303	3	1	3	2	2	2	1	2	1	2	2	-	-	-	-	-	-	-	-	-

#	Usia	Jeniskelamin	MT	Durusikerga	KBTangan	SBSiku	SBShu	SSeher	SPungung	SRaki	SkelekrantBacks Screening	VAR00001	VAR00002	VAR00003	VAR00004	VAR00005	VAR00006	VAR00007	VAR00008	VAR00009
303	3	1	3	2	2	2	1	2	1	2	1	-	-	-	-	-	-	-	-	-
304	3	1	1	2	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
305	1	1	2	1	2	2	1	1	1	1	1	-	-	-	-	-	-	-	-	-
306	3	1	1	2	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
307	3	1	2	2	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-
308	2	1	1	2	2	1	1	2	1	1	1	-	-	-	-	-	-	-	-	-
309	2	1	2	2	2	1	1	2	1	1	1	-	-	-	-	-	-	-	-	-
310	1	1	3	1	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-
311	2	1	4	2	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
312	1	1	2	1	1	1	1	1	2	1	1	-	-	-	-	-	-	-	-	-
313	2	1	4	1	1	1	1	1	2	1	1	-	-	-	-	-	-	-	-	-
314	1	1	2	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
315	3	1	2	2	2	1	2	2	1	1	2	-	-	-	-	-	-	-	-	-
316	1	1	2	1	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
317	3	1	4	1	2	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
318	2	1	4	1	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
319	1	1	4	2	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
320	1	1	2	2	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
321	2	1	2	1	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
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323	1	1	3	2	2	2	1	2	1	2	2	-	-	-	-	-	-	-	-	-
324	1	1	4	1	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
325	2	1	4	1	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
326	2	1	1	2	2	1	1	2	1	2	2	-	-	-	-	-	-	-	-	-
327	1	1	2	1	1	2	1	1	2	1	1	-	-	-	-	-	-	-	-	-

#	Usia	Jeniskelamin	MT	Durusikerga	KBTangan	SBSiku	SBShu	SSeher	SPungung	SRaki	SkelekrantBacks Screening	VAR00001	VAR00002	VAR00003	VAR00004	VAR00005	VAR00006	VAR00007	VAR00008	VAR00009
327	1	1	2	1	1	2	1	1	2	1	1	-	-	-	-	-	-	-	-	-
328	2	1	4	2	2	2	1	2	1	1	2	-	-	-	-	-	-	-	-	-
329	1	1	2	1	2	1	1	2	1	2	1	-	-	-	-	-	-	-	-	-
330	2	1	4	2	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
331	2	1	2	2	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
332	3	1	3	1	2	1	1	2	1	1	1	-	-	-	-	-	-	-	-	-
333	1	1	2	1	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
334	3	1	1	2	2	1	1	2	1	1	1	-	-	-	-	-	-	-	-	-
335	3	1	2	1	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-
336	4	1	2	2	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
337	2	1	2	2	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
338	2	1	4	1	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
339	1	1	2	1	1	1	1	1	2	1	1	-	-	-	-	-	-	-	-	-
340	2	1	3	1	2	1	1	2	1	1	1	-	-	-	-	-	-	-	-	-
341	2	1	1	2	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-
342	2	1	2	2	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
343	2	1	2	2	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
344	2	1	3	1	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-
345	2	1	4	2	2	1	1	2	1	1	1	-	-	-	-	-	-	-	-	-
346	3	1	4	1	2	1	1	1	2	1	2	-	-	-	-	-	-	-	-	-
347	1	1	1	1	2	1	1	2	1	1	1	-	-	-	-	-	-	-	-	-
348	1	1	2	1	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
349	4	1	1	1	2	1	1	2	1	1	1	-	-	-	-	-	-	-	-	-
350	3	1	1	1	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-
351	3	1	2	1	2	1	2	2	1	1	1	-	-	-	-	-	-	-	-	-

#	Usia	Jeniskelamin	MT	Durusikerga	KBTangan	SBSiku	SBShu	SSeher	SPungung	SRaki	SkelekrantBacks Screening	VAR00001	VAR00002	VAR00003	VAR00004	VAR00005	VAR00006	VAR00007	VAR00008	VAR00009
355	3	1	4	2	2	1	2	2	1	2	2	-	-	-	-	-	-	-	-	-
356	3	1	2	2	2	2	2	2	1	2	2	-	-	-	-	-	-	-	-	-
357	3	1	1	2	2	2	2	2	1	2	2	-	-	-	-	-	-	-	-	-
358	3	1	3	2	2	1	1	2	1	2	2	-	-	-	-	-	-	-	-	-
359	1	1	2	1	1	1	2	1	2	1	1	-	-	-	-	-	-	-	-	-
360	1	1	2	1	1	1	1	1	2	1	1	-	-	-	-	-	-	-	-	-
361	1	1	2	1	1	1	1	1	2	1	1	-	-	-	-	-	-	-	-	-
362	1	1	2	1	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
363	2	1	2	1	2	2	2	2	1	1	2	-	-	-	-	-	-	-	-	-
364	1	1	2	1	2	1	2	2	1	1	2	-	-	-	-	-	-	-	-	-
365	3	1	4	1	2	2	1	2	1	1	1	-	-	-	-	-	-	-	-	-
366	1	1	4	1	1	1	1	2	2	1	1	-	-	-	-	-	-	-	-	-
367	2	1	2	1	2	1	2	2	1	1	1	-	-	-	-	-	-	-	-	-
368	2	1	2	1	2	1	1	2	1	1	2	-	-	-	-	-	-	-	-	-
369	1	1	1	2	2	1	1	2	1	1	1	-	-	-	-	-	-	-	-	-
370	2	1	3	2	2	1	1	2	1	2	2	-	-	-	-	-	-	-	-	-
371	2	1	2	2	2	2	2	2	1	2	2	-	-	-	-	-	-	-	-	-
372	2	1	3	2	2	2	1	2	1	1	2	-	-	-	-	-	-	-	-	-
373	2	1	4	2	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-
374	2	2	3	1	2	2	1	2	1	2	2	-	-	-	-	-	-	-	-	-
375	3	2	4	1	2	1	1	2	1	2	2	-	-	-	-	-	-	-	-	-
376	3	2	4	2	2	2	2	2	1	2	2	-	-	-	-	-	-	-	-	-
377												-	-	-	-	-	-	-	-	-
378												-	-	-	-	-	-	-	-	-
379												-	-	-	-	-	-	-	-	-

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### Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Durasi kerja pengemudi Maxim bike * Skor the keele start back screening tool	376	100.0%	0	0.0%	376	100.0%

### Durasi kerja pengemudi Maxim bike \* Skor the keele start back screening tool Crosstabulation

Durasi kerja pengemudi Maxim bike		Count	Skor the keele start back screening tool		Total
			Risiko rendah	Risiko sedang	
Bekerja selama 8 jam atau kurang dari 8 jam		63	43	106	
	% within Durasi kerja pengemudi Maxim bike	59.4%	40.6%	100.0%	
	% within Skor the keele start back screening tool	75.9%	14.7%	28.2%	
Bekerja lebih dari 8 jam		20	250	270	
	% within Durasi kerja pengemudi Maxim bike	7.4%	92.6%	100.0%	
	% within Skor the keele start back screening tool	24.1%	85.3%	71.8%	
<b>Total</b>		<b>83</b>	<b>293</b>	<b>376</b>	
	% of Total	5.3%	66.5%	71.8%	
	% within Durasi kerja pengemudi Maxim bike	22.1%	77.9%	100.0%	
	% within Skor the keele start back screening tool	100.0%	100.0%	100.0%	
	% of Total	22.1%	77.9%	100.0%	

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Durasi kerja pengemudi Maxim bike	Bekerja selama 8 jam atau kurang dari 8 jam	Count	63	43	106
	% within Durasi kerja pengemudi Maxim bike	59.4%	40.6%	100.0%	
	% within Skor the keele start back screening tool	75.9%	14.7%	28.2%	
	% of Total	16.8%	11.4%	28.2%	
Bekerja lebih dari 8 jam		20	250	270	
	% within Durasi kerja pengemudi Maxim bike	7.4%	92.6%	100.0%	
	% within Skor the keele start back screening tool	24.1%	85.3%	71.8%	
	% of Total	5.3%	66.5%	71.8%	
<b>Total</b>		<b>83</b>	<b>293</b>	<b>376</b>	
	% within Durasi kerja pengemudi Maxim bike	22.1%	77.9%	100.0%	
	% within Skor the keele start back screening tool	100.0%	100.0%	100.0%	
	% of Total	22.1%	77.9%	100.0%	

### Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	119.774 <sup>a</sup>	1	.000		
Continuity Correction <sup>b</sup>	116.768	1	.000		
Likelihood Ratio	111.203	1	.000		
Fisher's Exact Test				.000	.000
Linear-by-Linear Association	119.455	1	.000		
N of Valid Cases	376				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 23.40.  
 b. Computed only for a 2x2 table

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Lampiran 9. Dokumentasi Penelitian



Dokumentasi Pengisian *The Keele Start Back Screening Tool*

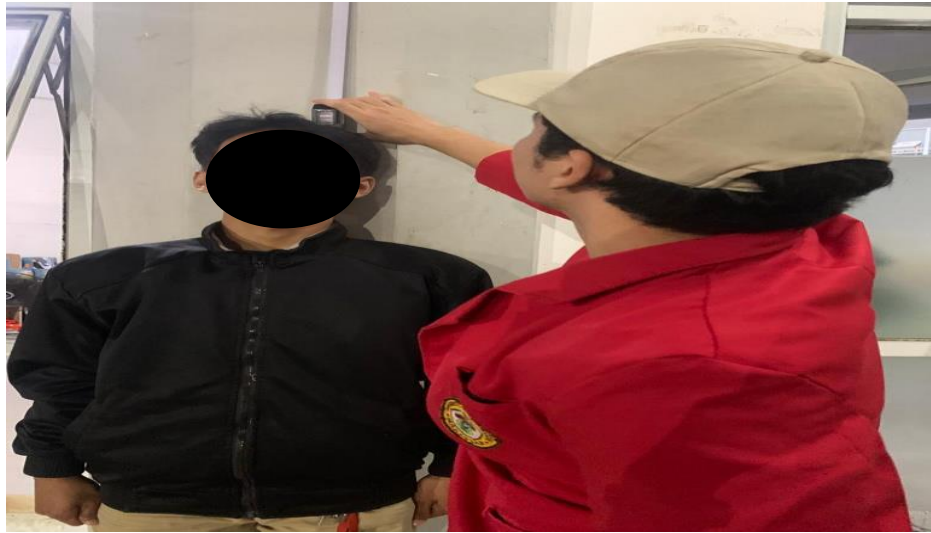


Dokumentasi Pemeriksaan Berat Badan





Dokumentasi Pengisian Durasi Kerja



Pengukuran Tinggi Badan

Original Article Template

## RELATIONSHIP BETWEEN POSITION and DURATION of DRIVING WORK on THE RISK OF LOW BACK PAIN in MAXIM BIKE DRIVERS in MAKASSAR CITY

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### ABSTRACT (Font Arial, Size 11, Style Bold, All Caps)

**Introduction:** Working position is a body attitude that is formed to facilitate the body when interacting so that it can mutually influence ergonomics at work. Work duration is the amount of time a worker spends working. Low back pain is pain that is felt in the lower part of the back, including at the corner of the lowest ribs to the lower hip crease and can spread to the legs and feet. **Methods:** This study This study aims to determine the relationship between position and duration of driving work on the risk of low back pain in Maxim bike drivers in Makassar City. This research is a correlational descriptive study with a sample size of 376 (n=376). Data collection was carried out by taking BMI data using a microtoise and weight scales, work position and work duration using a Brief survey, complaints of low back pain using the Keele start back screening form. The collected data was processed using SPSS (Statistical Program for Social Science) version 26 to see the distribution of data and the relationship between position and duration of driving work on the risk of low back pain in respondents. **Results:** Based on the results of the Chi-square correlation test of

*working position on complaints of low back pain, a significance value was obtained ( $p < 0.05$ ) for hand, neck and back positions of  $p = 0.00$ . Based on the results of the Chi-square correlation test of work duration on complaints of low back pain, a significance value ( $p < 0.05$ ) was obtained at  $p = 0.00$ . **Conclusions:** Based on the research results, there is a significant relationship between the working position of the Maxim bike driver's hands, neck and back and complaints of low back pain. This research also shows that there is a relationship between the duration of work of Maxim bike drivers in Makassar City and complaints of low back pain.*

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## 1. INTRODUCTION

Development of information and communication technology has had many impacts on human life, especially in the field of transportation. Transportation is a means of support among the community as a supporting factor in daily activities. The high need for transportation facilities along with the large need for population mobilization and delivery of goods has given rise to innovation, namely application-based transportation or online transportation. Online transportation is transportation that provides pick-up and drop-off services as well as delivery of goods. One of the online transportation applications is Maxim. Maxim is an online transportation company that was founded in the city of Chardinsk, Russia in 2003 and in 2014 began opening branches in various countries. In 2018 Maxim opened a branch in Indonesia and to date has operated in 121 cities in Indonesia.

Working position is the condition when a person makes body movements while carrying out an activity or job. If a work position is carried out for a long period of time and is not carried out properly and maintained, this can trigger injuries, complaints or other health problems, more specifically musculoskeletal complaints. Pain that is felt as pain, stiffness, and difficulty moving and is felt in muscles, tendons and nerves is called musculoskeletal complaints. The Maxim driver's working position is in a sitting position on top of the vehicle and the average driving time per day is 7-8 hours, causing heavier muscle work.

Work duration is the length of time someone does their job. The duration of work while driving in Indonesia is regulated in law. No. 22 of 2009 concerning road traffic and transportation, in article 90 paragraph (2) it is explained that the working time for drivers of public motorized vehicles as referred to in paragraph (1) is a maximum of 8 hours a day. Meanwhile, article 90 paragraph (3) states that drivers of public motorized vehicles, after driving a vehicle for four consecutive hours, are required to rest for at least half an hour. These rules are a reference for Indonesian citizens who want to drive, especially Maxim drivers, to pay attention to when driving, because a static sitting position for a long period of time can cause tension in the muscles of the back area and excessive

load on the vertebral column, especially the lumbar and lumbar spine. This can trigger back pain in the form of complaints of low back pain (Sylvano and Novendi, 2021)<sup>9</sup>.

Low back pain or lower back pain is a musculoskeletal disorder caused by abnormalities in the skeletal muscles. The pain caused will be felt starting from the lower border of the ribs to the folds of the hips, precisely in the lumbosacral or lumbar area and can spread to the legs and feet. This is because the muscles continuously receive repeated exposure to static loads which can cause damage to the lower back nerve tissue and muscles.

## 2. METHODS

This research is a type of correlational descriptive research with a cross sectional study design and data collection using non probability sampling with a purposive sampling technique. The number of respondents in this study was 376 Maxim bike drivers in Makassar City. The data used in this research is primary data obtained from Maxim bike drivers in Makassar City in the form of measuring position and work duration using the Brief survey form and measuring the level of low back pain felt using The Keele Start Back Screening Tool.

## 3. RESULTS

**Table 1. Distribution Characteristics of Maxim Bike Drivers in Makassar City**

Characteristics of Respondents		Frequency	Presentation (%)
Age	Young age group	106	28,2
	Initial working age group	143	38,2
	Middle age group	79	21,2
	Pre-retirement age group	46	12,2
	Retirement age group	2	0,5
Gender	Male	373	99,2
	Female	3	0,8
BMI	<i>Underweight</i>	39	10,4
	Normal	158	42
	<i>Overweight</i>	92	24,5
	Obesity I	87	23,1
Duration of working as a driver	Working for 8 hours or less	106	28,2
	Working more than 8 hours	270	71,8

Source: Primary data, 2023.



**Table 2. Distribution and percentage of low back pain complaints based on work position**

Region	Risk Factor	Value <i>The keele start back screening</i>		Total (%)
		Low Risk	Medium Risk	
Hand	Low Risk	28 (7,4%)	1 (0,3%)	29 (7,7)
	High Risk	55 (14,6%)	292 (77,7%)	347 (92,3)
Elbow	Low Risk	34 (9%)	105 (27,9%)	139 (37,2)
	High Risk	49 (13%)	188 (50%)	237 (63,2)
Shoulder	Low Risk	53 (14%)	190 (50,5%)	243 (64,6)
	High Risk	30 (8%)	103 (27,4%)	133 (35,4)
Neck	Low Risk	28 (7%)	1 (0,3%)	29 (7,70)
	High Risk	55 (14%)	292 (77,7%)	347 (92,3)
Back	Moderate Risk	28 (7%)	1 (0,3%)	29 (7,70)
	High Risk	55 (14%)	292 (77,7%)	347 (92,3)
Foot	Low Risk	14 (3%)	77 (20,5%)	91 (24,2)
	Moderate Risk	69 (18%)	216 (57,4)	285 (75,8)

Source: Primary data, 2023.

**Table 3. Distribution and percentage of low back pain complaints based on work duration**

Variable	<i>The keele start back screening tool</i>		Total
	Low Risk	Medium Risk	
Working for 8 hours or less	63 (16,8%)	43 (11,4%)	106 (28,2%)
Working more than 8 hours	20 (5,3%)	250 (66,5%)	270 (71,8%)

Source: Primary data, 2023.

**Table 4. Chi-square Test Results of Working Position on Complaints of Low Back Pain**

Variable	<i>Low back pain</i>			
	n	$X^2$ value	df	p-value
Hand position	376	101,329 <sup>a</sup>	1	0,000
Elbow position	376	0,730 <sup>a</sup>	1	0,393

Shoulder position	376	0,028 <sup>a</sup>	1	0,868
Neck position	376	101,329 <sup>a</sup>	1	0,000
Back position	376	101,329 <sup>a</sup>	1	0,000
Foot position	376	3,124 <sup>a</sup>	1	0,077

Source: Primary data, 2023

**Table 5. Chi-square correlation test results of work duration on complaints of low back pain**

Variabel	Low back pain			
	n	$\chi^2$ value	df	p-value
Duration of work	376	119,774 <sup>a</sup>	1	0,000

Source: Primary data, 2023.

**Table 6. Chi-square Correlation Test Results of Age, BMI, and Gender on Complaints of Low Back Pain**

Variable	Low back pain	
	n	p-value
Age	376	0,00
BMI	376	0,036
Gender	376	0,472

Source: Primary data, 2023.

#### **4. DISCUSSIONS (FONT ARIAL, SIZE 11, STYLE BOLD, ALL CAPS)**

Working position in this study was measured using a brief survey by measuring six body regions, namely hands, elbows, shoulders, neck, back and feet. In table 2, regarding the distribution and percentage of low back pain complaints based on working position for Maxim bike drivers, high risk is most often experienced in the hand, elbow, neck and back areas. This is because when driving the driver's body forms a triangle position. The triangle position is an ergonomic position in driving that connects three points between the body position when sitting, the position of the back and legs, and the position of the hands. The position of this triangle always changes depending on your height and the type of motorbike you ride. The types of motorbikes used by Maxim drivers are automatic motorbikes and mopeds, where these two types of motorbikes have a slightly further distance between the body and hand positions compared to sport motorbikes. Apart from that, the distance between the seat and the footrest is quite far on an automatic motorbike so that the legs can support the weight of the body so that the center of gravity on the back is not too big or the weight of the thighs rests on the feet so this causes less emphasis on the back and thigh area so that This causes blood circulation to the hips, thighs and legs smoothly, thereby avoiding the risk of fatigue and tingling in the legs, as well as increasing body stability because the driving hands are in a good

position because the hands are not too bent and the body is not too bent like on a sports motorbike, so this reduces the occurrence of musculoskeletal complaints such as low back pain (Hadyan, 2015)<sup>1</sup>.

Based on the results of the chi-square test, a significance value ( $p < 0.05$ ) for the position of the hand, neck and back was obtained at  $p = 0.00$ . This shows that there is a relationship between the position of the hands, neck and back when driving. Hand position greatly influences body position when working. Hand positions that are too high or too low when driving a motorbike affect the position of the back, where if the hands are too low, the back position will bend and this can cause complaints of low back pain (Ferusgel et al., 2019)<sup>2</sup>. This is in accordance with research conducted by Tuti et al (2022), which showed that there was a relationship between work position and complaints of low back pain<sup>3</sup>.

The results of this research also show that the position of the neck when working has a major contribution to complaints of low back pain in Maxim bike drivers. Anatomically, cervical and lumbar curves have similarities, namely forming an anterior or convex curve (lordosis), this curve can increase or decrease when the body's center of gravity changes (Eddy, 2019)<sup>4</sup>. This is because the bones that make up the neck region, namely the cervical, are one unit with the thoracic, lumbar, sacral and coccygeus so that if there is an odd position in the cervical, it will also affect other vertebral segments. If someone positions their back straight, it will increase muscle activity in the neck region (Żywień, Barczyk-Pawełec and Sipko, 2022), this can increase the risk of working positions in the neck region. Someone who complains of neck pain is more susceptible to experiencing complaints of low back pain or vice versa. This is because anatomically the cervical and lumbar are connected to each other as one unit, namely the vertebrae, so that pain in one of the other vertebral segments will cause a person to change posture when doing activities, thereby affecting other vertebral segments. This it can be concluded that the neck is in a bad position. and the back when working can trigger musculoskeletal complaints, including complaints of low back pain<sup>5</sup>. The results of this study also show that back position plays an important role in complaints of low back pain. A back position that is too bent will cause complaints of low back pain (Sukartini et al., 2020)<sup>6</sup>.

Maxim bike drivers who experience complaints of low back pain are caused by sitting for too long and vibrations from motor vehicle engines. Apart from that, the narrow condition of the steering cabin does not allow the driver to move his body parts freely, so that for long periods of time while sitting statically and with limited mobility, this will result in injury and stiffness to the joints and spine. Basically, pain occurs due to pressure on the peripheral nervous system of the lumbar region which is pinched. Pinching of the nerve can occur due to disorders of the muscles and surrounding tissue, disorders of the nerves themselves, spinal disorders or disorders elsewhere, such as infection. Low back pain in Maxim bike drivers occurs due to biomechanical disorders of the lumbar vertebrae due to changes in the center of body weight with compensation for changes in body position and will cause pain. Muscle tension and stretching of the spinal ligaments are one of the main causes of low back pain complaints. If a person sits with the upper limbs at a 90° position, the lumbar area will become flattened out which can cause kyphosis. This situation occurs because the hip joint only rotates 60°, forcing the pelvis to rotate backwards by 30° to adjust the upper leg which is in a 90° position if this happens for a



long time, in this case the Maxim bike driver who drives more than 8 hours/day, then this can certainly cause complaints of low back pain (Djuartina et al., 2015)<sup>7</sup>.

This complaint of low back pain begins because the Maxim bike driver's body responds to body weight which only rests on one point for a long duration so that the body releases inflammatory mediators due to these factors, so that injured muscle or bone tissue triggers the release of pro-inflammatory cytokines which will cause the perception of pain. The pain mechanism is protection that aims to prevent movement so that the healing process is possible. One form of protection is muscle spasm, which can then cause ischemia. Neuropathic irritation of nerve fibers can have two possible causes. First, the pressure only occurs on the nerve covering membrane which is rich in nociceptors from the nervus nervorum which causes inflammatory pain. Pain is felt along the nerve fibers and increases with stretching of the nerve fibers, for example due to movement. The second possibility, pressure on nerve fibers, in this condition biomolecular changes occur in which there is an accumulation of sodium ion channels and other ions. This buildup causes the emergence of mechano-hotspots which are very sensitive to mechanical and thermal stimuli, giving rise to complaints of low back pain (Irsandoni, 2015)<sup>8</sup>.

Based on table 4, regarding the results of the Chi-square correlation test of work duration on complaints of low back pain, the significance value ( $p = <0.05$ ) for work duration is obtained, namely  $p = 0.00$ . This shows that there is a relationship between the duration of driving work and low back pain in Maxim bike drivers in Makassar City. Maxim drivers who do their work in a sitting position, and in a static position for more than 8 hours/day, this then causes the muscles to contract excessively. This is in accordance with research conducted by Sylvano and Novendi (2021) showing that there is a relationship between driving duration and symptoms of low back pain in online motorcycle taxi drivers<sup>9</sup>. This is because the longer a person works, the frequency of muscle contractions will increase, resulting in fatigue. Muscle contraction requires ATP and in the process of forming ATP it is accompanied by other substances resulting from metabolism such as lactic acid. Strong and continuous muscle contractions can cause a buildup of lactic acid. Accumulated lactic acid will increase acidity in the muscles and blood, thereby inhibiting chemical reactions in the muscles, resulting in muscle fatigue (Gibran et al., 2020)<sup>10</sup>. This research is supported by Satrio et al (2020) who say that there is a relationship between driving duration and the incidence of low back pain<sup>11</sup>.

Age is the length of time a person has lived (in years) from the time the Maxim bike driver was born until the last birthday at the time the research took place. A person's age at work turns out to have an influence on work fatigue. In this study there were 270 Maxim bike drivers who worked more than 8 hours per day and those who worked more than 8 hours per day were dominated by early workers (25 - 34) years old. Based on this research Maxim bike drivers at this age said that driving a Maxim bike was their fulltime job. Indonesia is an industrial country with high opportunities for doing business such as goods and services. In an effort to create a labor market, ease of doing business is the main key. Implementation of policies that do not make it easy for the private sector or the public to start and carry out business activities in Indonesia. Indonesia is a country in 120th place out of 189 countries with the level of ease of doing business (the easy doing business) according to a survey conducted by the Worldbank in 2014, the difficulty of doing business including long licensing procedures, expensive costs and long

processing times are inhibiting factors in creating business opportunities and employment opportunities so that people with early working age (24 – 34) years tend to prefer working as employees or working in the transportation sector as Maxim bike drivers (Suhandi et al., 2021)<sup>12</sup>.

Based on the results of the chi-square test in this study, a significance value ( $p = <0.05$ ) for age was obtained at  $p = 0.00$ . This shows that there is a relationship between age and low back pain. This is because in people in the old age category there have been changes in body tissue, where the older a person gets, the more the body's muscle strength will decrease. Researchers agree that the aging process is in line with degenerative processes in systems in the body. Musculoskeletal disorders are directly proportional to age. Tissues will experience increased bone fragility, decreased elasticity in ligaments and decreased muscle strength which causes a decrease in body function. The aging process is a gradual loss of tissue's ability to repair itself, replace and maintain its normal structure and function. Apart from that, the need for body metabolism decreases as people get older, causing the muscle's ability to work less to do monotonous work. As is the case in this research, the Maxim bike driver, where this work is carried out in a monotonous position and for a long time, besides the traffic conditions in Makassar City, where every afternoon there is a traffic jam due to busy traffic flow, this increases the duration of the Maxim bike driver. This will provide opportunities for repetition strain injuries, namely muscle, bone, tendon pain and complaints of low back pain as complained by Maxim bike drivers. This research is supported by research conducted by Saputra (2020), the results of which showed that there was a relationship between the age of the respondent and the incidence of low back pain<sup>13</sup>. Other research conducted by Umami, et al (2014) shows that age is related to complaints of low back pain<sup>14</sup>.

In this study, the total number of Maxim bike drivers who had an overweight BMI and obesity I was greater than those with a normal BMI. Overweight and obesity are conditions that indicate an imbalance between height and weight due to fat tissue in the body, resulting in excess body weight that exceeds the ideal size. Maxim bike drivers who have a BMI of overweight and obesity I cause an increase in the burden on the center of gravity on the lower back, this causes increased pressure on the intervertebral discs resulting in narrowing of the intervertebral foramen which will then cause irritation to the nerve roots, and can cause complaints of low back pain. Based on the results of the Maxim bike driver's BMI chi-square test on complaints of low back pain in this study, a significance value ( $p = <0.05$ ) was obtained for BMI of  $p = 0.036$ . This shows that there is a relationship between BMI and low back pain. These musculoskeletal complaints occur due to inappropriate or incorrect sitting positions and sitting for long periods of time, causing musculoskeletal complaints. A fixed or still sitting position for a long time causes pressure around the blood vessels due to the weight of the upper body. The further the position of a body part is from the body's center of gravity, the higher the risk of musculoskeletal complaints (Putri, 2023)<sup>15</sup>.

In this study there was no relationship between gender and complaints of low back pain. The results of the Chi-square correlation test show that the significance value obtained is  $p = 0.472$ . In this study, the total sample was 367 male Maxim bike drivers and there were only 3 female Maxim bike drivers. This causes the relationship between genders to have no correlation because the number of respondents has very large

differences. This research is in line with research conducted by Rini et al., (2020) where in this study there is a difference in the number of women and men where the number of women is more than men. This study shows that there is a relationship between gender and complaints of low back pain<sup>16</sup>.

## 5. CONCLUSION

In this study, Maxim bike drivers' work duration was dominated by working more than 8 hours/day. In this study, a significant relationship was found between the working position of the hands, neck and back and complaints of low back pain. In this study, significant results were also obtained between driving duration and complaints of low back pain in Maxim bike drivers in Makassar City. Apart from that, this research also shows that there is a relationship between age and complaints of low back pain, and BMI and complaints of low back pain. In this study, no relationship was found between gender and complaints of low back pain in Maxim bike drivers in Makassar City.

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