

BUKTI KORESPONDENSI

Judul Artikel : Higher cardiovascular risks and Atherogenic Index of Plasma found in police officers of developing country in Surabaya, East Java, Indonesia

Jurnal : Clinical Epidemiology and Global Health

Author : Meity Ardiana a,b,*, Primasitha Maharany Harsoyo, Hanesty Oky Hermawan, Inna Maya Sufiyah b, Dwika Rasyid Firmanda b, Saskia Ratna Desita, Annisya Dinda Paramitha c, Arisvia Sukma Hariftyani c, Farah Aisha Shabrina c, Fita Triastuti

Corresponding : Meity Ardiana

No.	Perihal	Tanggal	Komentar Editor Jurnal	Komentar Penulis
1	Pengiriman Artikel	30 Juni 2022	<p>Editor mengirim pesan otomatis. Bahwa Nomor Naskah: CEGH-D-22-00344R1, Judul “Higher Cardiovascular Risks and Atherogenic Index of Plasma Found in Police Officers of Developing Country in Surabaya, East Java,Indonesia” telah diterima pada jurnal Clinical Epidemiology and Global Health.</p> <p>Untuk melacak status naskah, penulis masuk ke https://www.editorialmanager.com/cegh/, dan navigasikan ke folder "Revisi Sedang Diproses".</p> <p>Email : 30 Juni 2022 pukul 19.08</p>	-
		2 Juli 2022, 8 Agustus 2022	<p>Editor memberitahukan bahwa naskah sedang ditinjau. Proses tinjauan sejawat dapat memakan waktu cukup lama, jadi jurnal mencoba layanan baru yang memungkinkan penulis melacak status tinjauan sejawat secara lebih detail. Penulis dapat mengakses layanan ini di sini: https://track.authorhub.elsevier.com?uuiid=c1569e1e-3184-4243-8ef9-39f4e21d3633</p> <p>Email : 2 Juli 2022 pukul 14.45</p>	<p>Sebelumnya, penulis mengirimkan pertanyaan ke editor untuk mengetahui status artikel : Beberapa minggu sejak penyerahan revisi terakhir kami. Bisakah Anda membantu saya melacak status artikel kami saat ini?</p>

				Email : 08/08/2022 pukul 09.21
2	Pengiriman Revisi dan penerimaan artikel untuk diterbitkan	09 Agustus 2022	<p>Editor mengonfirmasi bahwa status artikel Anda sekarang "Dalam Peninjauan" dengan satu ulasan selesai dan menunggu pengulas lain menyetujui dan mengirimkan komentarnya sebelum keputusan dapat diambil.</p> <p>Email : 9 Agustus 2022 pukul 09.41</p>	-
		23 Agustus 2022	<p>Editor memberitahu bahwa naskah telah diterima untuk diterbitkan. Komentar editor dan komentar pengulas lainnya, ada di link bawah. Naskah yang diterima sekarang akan ditransfer ke departemen produksi. Editor akan membuat bukti untuk diperiksa, dan melengkapi sejumlah formular.</p> <p>Email : 23 Agustus 2022 pukul 10.51</p> <p>Editor mengirim email untuk melacak status revisi artikel selama proses publikasi, silakan gunakan layanan pelacakan artikel kami: https://authors.elsevier.com/tracking/article/details.do?aid=101132&jid=CEGH&surname=Ardiana</p> <p>Email : 23 Agustus 2022 pukul 12.06</p>	<p>Penulis menjawab komentar dari editor dan reviewer pada Author's Response to Reviewer Comments dan melakukan beberapa revisi (lampiran naskah):</p> <ul style="list-style-type: none"> • Judul: Penulis menambahkan "Surabaya, Jawa Timur, Indonesia" sebagai tempat penelitian menemukan tempat tersebut (hal. 1) • Abstrak: Penulis menambahkan rincian lebih lanjut tentang lokasi dan cara pengumpulan data. (hal. 1) • Kesimpulan: Penulis memodifikasi kesimpulan, menurut kedua kelompok memiliki faktor risiko tinggi.(hal.6) • Pendahuluan: Penulis memperjelas tujuan penelitian. (hal. 2)

				<ul style="list-style-type: none"> • Metode: Penulis menambahkan rincian lebih lanjut tentang proses persyaratan, pertimbangan etis, alat dan metode antropometri dan sampel darah, referensi dan nilai batas semua parameter, mengoreksi kriteria inklusi. (hal.4) • Hasil : Penulis melakukan beberapa revisi pada hasil kami mengenai pengulangan, dan menambahkan lebih banyak informasi tentang perbedaan/perbandingan antara dua kelompok.(hal.9) • Diskusi: Penulis melakukan beberapa revisi dalam diskusi. (hal.6) • Kekuatan dan keterbatasan: kami memberikan lebih banyak kekuatan dan keterbatasan pada penelitian kami. (hal.9)
3	Penerimaan Artikel untuk dipublikasikan	25 Agustus 2022	Editor mengirimkan ucapan selamat atas diterimanya artikel untuk diterbitkan. Email : 25 Agustus 2022 pukul 19.47	-

		27,30,31 Agustus 2022	<p>Editor mengalami masalah dengan file elektronik dan tidak dapat memproses artikel Anda lebih lanjut hingga masalah berikut teratasi: * 1.[penulis judul] editor telah menerima afiliasi(5), tetapi penunjuk terkait tidak ada dalam grup penulis, silakan periksa dan beri saran. 2.[penulis judul] Kami telah menerima nama penulis (Fita Triastuti), tetapi penunjuk terkait tidak ada dalam grup penulis, silakan periksa dan beri saran. Email : 27 Agustus 2022 pukul 18.17</p> <p>Editor memberikan respon atas pengiriman revisi. Email : 31 Agustus 2022 pukul 13.24</p>	<p>Penulis melakukan perbaikan dan mengirimkan lampiran title page revised. Email : 30 Agustus 2022 pukul 09.02</p>
		3,4 ,5 September 2022	<p>Editor mengirimkan kembali email dan meminta file dikirim dalam bentuk MS doc format. Email : 3 September 2022 pukul 07.10</p> <p>Editor merespon email penulis. Email : 3 September 2022 pukul 22.31</p> <p>Editor merespon email penulis. Email : 5 September 2022 pukul 11.31</p>	<p>Penulis mengirimkan revisi dalam bentuk MS word format. Email : 3 September 2022 pukul 22.11</p> <p>Penulis mengirimkan revisi terbaru. Email : 4 September 2022 pukul 12.53</p>
		8 September 2022	<p>Editor mengirimkan pesan untuk Penulis dalam melengkapi formulir jurnal. Email : 8 September 2022 pukul 12.25</p>	-
		10 September 2022	<p>Editor mengirimkan pesan untuk meninjau dan mengirimkan koreksi langsung di layar menggunakan tautan di bawah ini dan menemukan petunjuk di halaman awal tentang cara melakukan koreksi. https://elsevier.proofcentral.</p>	<p>Penulis telah melakukan koreksi melalui website jurnal.</p>

			<p>com/en-us/landing-page.html?tanda=698b6011a9659301e500f0d88df3e6 Email : 10 September 2022 pukul 02.16</p> <p>Editor menyampaikan konfirmasi bahwa Penulis telah mengisi Publishing Agreement Form. Email : 10 September 2022 pukul 12.55</p> <p>Editor menyampaikan konfirmasi bahwa Penulis telah mengisi Rights and Access Form. Email : 10 September 2022 pukul 12.55</p> <p>Editor menyampaikan konfirmasi bahwa Penulis telah menggunakan aplikasi Proof Central. Email : 10 September 2022 pukul 13.49</p>	
		7,8 November 2022	<p>Editor mengirimkan proof revisi artikel Anda 101132 di jurnal. Email : 7 November 2022 pukul 10.55</p> <p>Editor mengkonfirmasi telah menerima persetujuan revisi proof. Email : 8 November 2022 pukul 12.48</p>	<p>Penulis telah memperbaiki proof. Email : 8 November 2022 pukul 09.15</p> <p>Penulis menjawab email bahwa tidak akan ada koreksi apa pun. Email : November 08, 2022 02:15</p>

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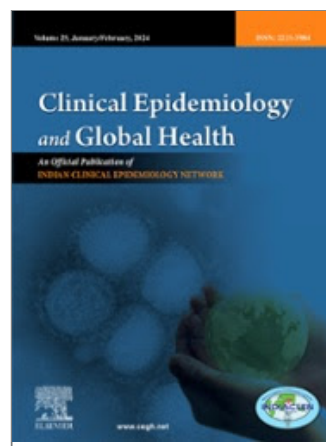
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Author's Response To Reviewer Comments

Close

Author Respond to Reviewer

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Here we made some revisions:

- Title: we added "Surabaya, East Java, Indonesia" as the place where the study found the place
- Abstract: we added more details about location and how the data was collected
- Conclusion: we modified our conclusion, according to both groups have high-risk factor
- Introduction: we clarify the aim of the study
- Method: we added more details about the requirement process, ethical consideration, tools and methods for anthropometrics and blood samples, reference and cut-off value of all parameters, corrected the inclusion criteria
- Results: we made some revisions in our results regarding repetitiveness, and added more information about the differences/comparison between two groups
- Discussion: we made some revisions in our discussion
- Strength and limitation: we provided more strengths and limitation of our study

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Higher Cardiovascular Risks and Atherogenic Index of Plasma Found in Police Officers of Developing Country

Running Title: Cardiovascular Risks in Police Officers

Primasitha Maharany Harsoyo¹, Meity Ardiana*^{2,3}, Hanesty Oky Hermawan¹, Inna Maya Sufiyah³, Dwika Rasyid Firmanda³, Saskia Ratna Desita⁴, Annisya Dinda Paramitha⁴, Arisvia Sukma Hariftiyani⁴, Farah Aisha Shabrina⁴, Fita Triastuti⁵

1. Resident, Cardiology and Vascular Medicine, Faculty of Medicine, Airlangga University, Surabaya, Indonesia
2. Lecturer, Cardiology and Vascular Medicine, Faculty of Medicine, Airlangga University, Surabaya, Indonesia
3. Medical Doctor, Bhayangkara Hospital, Surabaya, Indonesia
4. Clinical Medical Student, Faculty of Medicine, Airlangga University, Surabaya, Indonesia
5. Master Program in Basic Medical Science, Faculty of Medicine, Airlangga University, Surabaya, Indonesia

Address of the Institutions:

Faculty of Medicine, Airlangga University: 47 Mayjend. Prof. Moestopo, Surabaya, Indonesia-60285

Bhayangkara Hospital Surabaya: 116 Ahmad Yani, Ketintang, Gayungan, Surabaya, Indonesia -60231

All authors take responsibility for all aspects of the reliability and freedom from bias of the data presented and their discussed interpretation

Corresponding Author

Meity Ardiana, MD, Ph.D

Address: 47 Mayjend. Prof. Moestopo, Surabaya, Indonesia-

60285 e-mail: meityardiana@fk.unair.ac.id

ORCID: <https://orcid.org/0000-0002-7388-1051>

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Disclosure statement

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Keywords (5)

Cardiovascular risks, atherogenic index of plasma, police officer, preventive cardiology, atherosclerosis

ORCID ID

Primasitha Maharany Harsoyo	https://orcid.org/0000-0003-4063-684X
Meity Ardiana	https://orcid.org/0000-0002-7388-1051
Hanesty Oky Hermawan	https://orcid.org/0000-0003-2474-7558
Inna Maya Sufiyah	https://orcid.org/0000-0002-0741-5407
Dwika Rasyid Firmanda	https://orcid.org/0000-0001-9357-3016
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REMINDER: Publication of your article [CEGH_101132] in Clinical Epidemiology and Global Health is on hold due to file problems

4 pesan

A.Achuthan@elsevier.com <A.Achuthan@elsevier.com>
Kepada: meityardiana@fk.unair.ac.id

30 Agustus 2022 pukul 07.06

Our reference: CEGH 101132
Article reference: CEGH_CEGH-D-22-00344
Article title: Higher Cardiovascular Risks and Atherogenic Index of Plasma Found in Police Officers of Developing Country in Surabaya, East Java, Indonesia
To be published in: Clinical Epidemiology and Global Health

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ardiana, Meity <meityardiana@fk.unair.ac.id>
Kepada: mayasufiyah@gmail.com

30 Agustus 2022 pukul 08.03

[Kutipan teks disembunyikan]

ardiana, Meity <meityardiana@fk.unair.ac.id>
Kepada: A.Achuthan@elsevier.com

30 Agustus 2022 pukul 09.02

Dear Editor,
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Achuthan, Arivalagan (ELS-CON) <A.Achuthan@elsevier.com>
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31 Agustus 2022 pukul 13.24

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Raghav (on behalf of Arivalagan Achuthan)

Data Administrator

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From: ardiana, Meity <meityardiana@fk.unair.ac.id>

Sent: 30 August 2022 07:32

To: Achuthan, Arivalagan (ELS-CON) <A.Achuthan@elsevier.com>

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3 September 2022 pukul 07.10

Our reference: CEGH 101132
Article reference: CEGH_CEGH-D-22-00344
Article title: Higher Cardiovascular Risks and Atherogenic Index of Plasma Found in Police Officers of Developing Country in Surabaya, East Java, Indonesia
To be published in: Clinical Epidemiology and Global Health

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3 September 2022 pukul 22.11

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From: ardiana, Meity <meityardiana@fk.unair.ac.id>

Sent: 03 September 2022 20:41

To: Achuthan, Arivalagan (ELS-CON) <A.Achuthan@elsevier.com>

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4 September 2022 pukul 12.53

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5 September 2022 pukul 11.31

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A.Achuthan@elsevier.com <A.Achuthan@elsevier.com>

8 September 2022 pukul 12.25

Kepada: meityardiana@fk.unair.ac.id

Our reference: CEGH 101132

Article reference: CEGH_CEGH-D-22-00344

Article title: Higher Cardiovascular Risks and Atherogenic Index of Plasma Found in Police Officers of Developing Country in Surabaya, East Java, Indonesia

To be published in: Clinical Epidemiology and Global Health

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47 Mayjend
Indonesia
Phone: not available
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9 September 2022 pukul 12.34

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corrections.esch@elsevier.tnq.co.in <corrections.esch@elsevier.tnq.co.in>

10 September 2022 pukul 02.16

Kepada: meityardiana@fk.unair.ac.id

Cc: editorcegh@gmail.com

CEGH 101132

Higher Cardiovascular Risks and Atherogenic Index of Plasma Found in Police Officers of Developing Country in Surabaya, East Java, Indonesia

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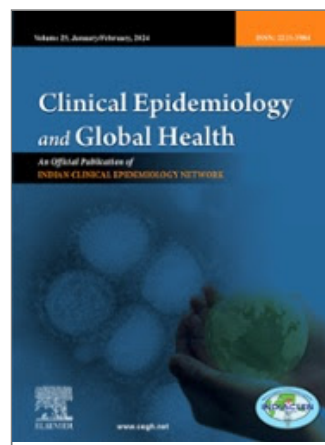
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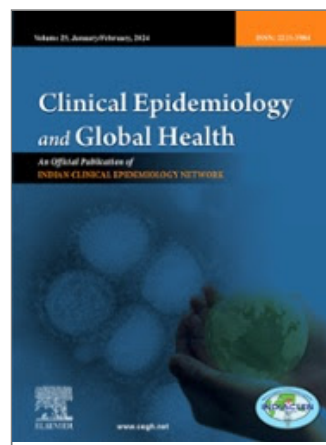
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Cc: r.ramalingam@elsevier.com

7 November 2022 pukul 10.55

Our reference: 101132

Article title: Higher cardiovascular risks and Atherogenic Index of Plasma found in police officers of developing country in Surabaya, East Java, Indonesia

To be published in: CEGH

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Kind regards,

Rajinikanth Ramalingam

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E-Mail: cegh@elsevier.com

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Cc: r.ramalingam@elsevier.com

8 November 2022 pukul 09.15

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Date: Tuesday, November 08, 2022 02:15 AM GMT

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Our reference: 101132

Article title: Higher cardiovascular risks and Atherogenic Index of Plasma found in police officers of developing country in Surabaya, East Java, Indonesia

To be published in: CEGH

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As the publication of your article is pending until I receive your reply, I would appreciate your response within 48 hours.

Thank you in advance for your cooperation.

PS: Please [reply all] in your response.

Kind regards,

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Clinical Epidemiology and Global Health

Higher Cardiovascular Risks and Atherogenic Index of Plasma Found in Police Officers of Developing Country in Surabaya, East Java, Indonesia

--Manuscript Draft--

Manuscript Number:	CEGH-D-22-00344R1
Article Type:	Original article
Keywords:	Cardiovascular risks; atherogenic index of plasma; police officer; preventive cardiology; atherosclerosis
Corresponding Author:	Meity Ardiana, M.D., Ph.D Dr Soetomo General Hospital Surabaya, East Java INDONESIA
First Author:	Primasitha Maharany Harsoyo, M.D.
Order of Authors:	Primasitha Maharany Harsoyo, M.D. Meity Ardiana, M.D., Ph.D Hanestya Oky Hermawan, M.D. Inna Maya Sufiyah, M.D. Dwika Rasyid Firmanda, M.D. Saskia Ratna Desita, B. Med Annisya Dinda Paramitha, B. Med Arisvia Sukma Hariftyani, B. Med Farah Aisha Shabrina, B. Med Fita Triastuti, DVM.
Abstract:	<p>Background: Police officers are known for fieldwork shifts, psychological stress, and prolonged physical activity that are associated with cardiovascular disease (CVD). We aim to determine the differences in CVD risks factor and Atherogenic Index of Plasma (AIP) profiles as a predictor of cardiac events between police officers and civilians in a developing country as an evaluation and strategic preventive measure for CVD.</p> <p>Methods: 978 participants were enrolled as subjects in this cross-sectional study. Data used were obtained during medical check-ups using complete physical and laboratory examinations including blood pressure, body mass index (BMI), triglycerides (TG), low-density lipoprotein cholesterol (LDL-C), high-density lipoprotein cholesterol (HDL-C), total cholesterol, fasting blood sugar, and AIP between 2019 to 2020 at Bhayangkara State Police Hospital Surabaya. Mann-Whitney U test was performed using IBM SPSS version 25.</p> <p>Results: There are significant differences in systolic ($p=0.000$) and diastolic blood pressure ($p=0.003$), triglycerides ($p=0.000$), LDL-C ($p=0.006$), total cholesterol ($p=0.000$), fasting blood glucose ($p=0.001$), and the AIP ($p=0.000$) between the police and civilian groups, with the latter showing a tendency of having higher rates.</p> <p>Conclusions: CVD risk was found in both groups. Nevertheless, police officers have higher AIP and overall CVD risk compared to civilians, creating a necessity for aggressive CVD prevention strategies within the population.</p>
Suggested Reviewers:	Salva Reverentia Yurista Harvard Medical School syurista@mgh.harvard.edu Mohammad Saifur Rohman Brawijaya University Faculty of Medicine ippoenk@yahoo.com

	<p>Delvac Oceandy The University of Manchester Faculty of Biology Medicine and Health delvac.oceandy@manchester.ac.uk</p> <p>Pieter Doevendans University Medical Centre Utrecht Department of Cardiology p.doevendans@umcutrecht.nl</p>
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Response to Reviewers:	<p>Author Respond to Reviewer</p> <p>Dear Editor and Reviewer, Thank you for reading and evaluating our manuscript. Here we made some revisions:</p> <ul style="list-style-type: none"> •Title: we added “Surabaya, East Java, Indonesia” as the place where the study found the place •Abstract: we added more details about location and how the data was collected •Conclusion: we modified our conclusion, according to both groups have high-risk factor •Introduction: we clarify the aim of the study •Method: we added more details about the requirement process, ethical consideration, tools and methods for anthropometrics and blood samples, reference and cut-off value of all parameters, corrected the inclusion criteria •Results: we made some revisions in our results regarding repetitiveness, and added more information about the differences/comparison between two groups •Discussion: we made some revisions in our discussion •Strength and limitation: we provided more strengths and limitation of our study

Dear Editor

Clinical Epidemiology and Global Health

We would like to submit our manuscript entitled “*Higher Cardiovascular Risks and Atherogenic Index of Plasma Found in Police Officers of Developing Country in Surabaya, East Java, Indonesia*” to be considered as publication in *Clinical Epidemiology and Global Health*

As we know, police officers are known for fieldwork shifts prolonged physical activity, and psychological stress that are associated with cardiovascular disease (CVD). CVD is number one cause of death globally, can be prevented through lifestyle modification and avoiding risk factors. The atherogenic Index of Plasma (AIP) has been widely reported as a strong predictor and biomarker of CVD. We aim to determine the differences in Atherogenic Index of Plasma (AIP) profiles as a predictor of cardiac events and CVD risk factors between police officers and civilians in a developing country as an evaluation and strategic preventive measure for CVD.

In this study, we found that there are significant differences in systolic and diastolic blood pressure, triglycerides, LDL-C, total cholesterol, fasting blood glucose, and the AIP between the police and civilian groups, with the latter showing a tendency of having higher rates. Summary, police officers have higher AIP and overall CVD risk compared to civilians, creating a necessity for aggressive CVD prevention strategies within the population. Early intervention is necessary for CVD prevention.

We declare that this manuscript is original, has not been submitted for publication nor has it been published in whole or in part elsewhere.

No conflicts of interest are associated with this publication, and there has been no significant financial support for this work that could have influenced its outcome.

Thank you for your consideration of this manuscript.

Best Regards,

Dr. Meity Ardiana, M.D., Ph.D.

Author Respond to Reviewer

Dear Editor and Reviewer,

Thank you for reading and evaluating our manuscript.

Here we made some revisions:

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Higher Cardiovascular Risks and Atherogenic Index of Plasma Found in Police Officers of Developing Country

Running Title: Cardiovascular Risks in Police Officers

Primasitha Maharany Harsoyo¹, Meity Ardiana*^{2,3}, Hanestya Oky Hermawan¹, Inna Maya Sufiyah³, Dwika Rasyid Firmanda³, Saskia Ratna Desita⁴, Annisya Dinda Paramitha⁴, Arisvia Sukma Hariftiyani⁴, Farah Aisha Shabrina⁴, Fita Triastuti

1. Resident, Cardiology and Vascular Medicine, Faculty of Medicine, University of Airlangga, Surabaya, Indonesia
2. Lecturer, Cardiology and Vascular Medicine, Faculty of Medicine, University of Airlangga, Surabaya, Indonesia
3. Medical Doctor, Bhayangkara Hospital, Surabaya, Indonesia
4. Clinical Medical Student, Faculty of Medicine, University of Airlangga, Surabaya, Indonesia
5. Post-graduate Program, Faculty of Medicine, University of Airlangga, Surabaya, Indonesia

Address of the Institutions:

Faculty of Medicine, University of Airlangga: 47 Mayjend. Prof. Moestopo, Surabaya, Indonesia-60285

Bhayangkara Hospital Surabaya: 116 Ahmad Yani, Ketintang, Gayungan, Surabaya, Indonesia - 60231

All authors take responsibility for all aspects of the reliability and freedom from bias of the data presented and their discussed interpretation

Corresponding Author

Meity Ardiana, MD, Ph.D

Address: 47 Mayjend. Prof. Moestopo, Surabaya, Indonesia-

60285 e-mail: meityardiana@fk.unair.ac.id

ORCID: <https://orcid.org/0000-0002-7388-1051>

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Keywords (5)

Cardiovascular risks, atherogenic index of plasma, police officer, preventive cardiology, atherosclerosis

ORCID ID

Primasitha Maharany Harsoyo	https://orcid.org/0000-0003-4063-684X
Meity Ardiana	https://orcid.org/0000-0002-7388-1051
Hanestya Oky Hermawan	https://orcid.org/0000-0003-2474-7558
Inna Maya Sufiyah	https://orcid.org/0000-0002-0741-5407
Dwika Rasyid Firmanda	https://orcid.org/0000-0001-9357-3016
Saskia Ratna Desita	https://orcid.org/0000-0001-6288-4188
Annisya Dinda Paramitha	https://orcid.org/0000-0001-5071-7550
Arisvia Sukma Hariftiyani	https://orcid.org/0000-0001-5872-7104
Farah Aisha Shabrina	https://orcid.org/0000-0003-2711-2531
Fita Triastuti	https://orcid.org/0000-0002-2077-9280

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Abstract: 206

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Table 1. Frequency and Percentage of Variables in Police and Civilian groups

Variable	Groups	
	Police N=489	Civilian N=489
Sex		
- Women	32 (6.5%)	301 (61.6%)
- Men	457 (93.5%)	188 (38.4%)
Age (years)		
- 26-35	2 (0.4%)	35 (7.2%)
- 36-45	261 (53.4%)	215 (44%)
- 46-55	112 (22.9%)	195 (39.9%)
- >55	114 (23.3%)	44 (9%)
Systolic blood pressure		
- Normal	109 (22.3%)	178 (36.4%)
- Pre-hypertension	232 (47.4%)	237 (48.5%)
- Hypertension stage I	100 (20.4%)	54 (11%)
- Hypertension stage II	48 (9.8%)	20 (4.1%)
Diastolic blood pressure		
- Normal	121 (24.7%)	139 (28.4%)
- Pre-hypertension	224 (45.8%)	235 (48.1%)
- Hypertension stage I	107 (21.9%)	93 (19%)
- Hypertension stage II	37 (7.6%)	22 (4.5%)
BMI		
- Underweight	2 (0.4%)	3 (0.6%)
- Normal	64 (13.1%)	89 (18.2%)
- Overweight	261 (53.4%)	239 (48.9%)
- Obesity	162 (33.1%)	158 (32.3%)

Triglycerides

- Normal	224 (45.8%)	321 (65.6%)
- High	265 (54.2%)	168 (34.3%)

LDL

- Normal	91 (18.6%)	92 (18.8%)
- High	398 (81.4%)	397 (81.2%)

HDL

- Normal	92 (18.8%)	91 (18.6%)
- Low	397 (81.2%)	398 (81.4%)

Total Cholesterol

- Normal	187 (38.2%)	250 (51.1%)
- High	302 (61.8%)	239 (48.9%)

Fasting blood glucose

- Normal	382 (78.1%)	420 (85.9%)
- High	107 (21.9%)	69 (14.1%)

AIP

- Low Risk	8 (1.6%)	17 (3.5%)
- Medium Risk	34 (7%)	66 (13.5%)
- High Risk	447 (91.4%)	406 (83%)

Table 2. Mann Whitney Test analysis results

	Median (Min-Max)	Mean Rank	P
Systolic blood pressure			
- Civilian	120 (90-200)	429.05	0.000
- Police	130 (90-210)	549.95	
Diastolic blood pressure			
- Civilian	80 (70-120)	463.79	0.003
- Police	80 (60-120)	515.21	
BMI			
- Civilian	26.31 (15.7-50.96)	477.29	0.176
- Police	25.97 (17.78-48.83)	501.71	
Triglycerides			
- Civilian	120 (40-1378)	420.87	0.000
- Police	162 (41-980)	558.13	
LDL			
- Civilian	121 (59-280)	464.71	0.006
- Police	125 (43-230)	514.29	
HDL			
- Civilian	47 (29-83)	486.78	0.763
- Police	47 (30-158)	492.22	
Total Cholesterol			
- Civilian	200 (135-392)	447.23	0.000
- Police	216 (105-375)	531.77	
Fasting blood glucose			
- Civilian	92 (64-406)	460.52	0.001
- Police	96 (70-493)	518.48	
AIP			
- Civilian	0.42 (-0.08 – 1.66)	430.44	0.000
- Police	0.55 (-0.11 – 1.36)	548.56	

ICMJE DISCLOSURE FORM

Date: 6/5/2022

Your Name: Meity Ardiana, MD, PhD

Manuscript Title: Higher Cardiovascular Risks and Atherogenic Index of Plasma Found in Police Officers of Developing Country in Surabaya, East Java, Indonesia

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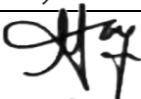
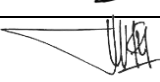
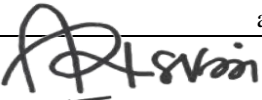

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Name of Author	Signature	e-mail	Date (dd/mm/yy)
Primasitha Maharany Harsoyo		primasitha.maharany.harsoyo-2020@fk.unair.ac.id	10/04/22
Meity Ardiana		meityardiana@fk.unair.ac.id	10/04/22
Hanestyia Oky Hermawan		hanestyia.oky20@fk.unair.ac.id	10/04/22
Inna Maya Sufiyah		mayasufiyah@gmail.com	10/04/22
Dwika Rasyid Firmada		rraasyd@gmail.com	10/04/22
Saskia Ratna Desita		saskia.ratna.desita-2020@fk.unair.ac.id	10/04/22
Annisya Dinda Paramitha		annisya.dinda.paramitha-2020@fk.unair.ac.id	10/04/22
Arisvia Sukma Hariftyani		arisvia.sukma.hariftyani-2020@fk.unair.ac.id	10/04/22
Farah Aisha Shabrina		farah.aisha.abrina-2020@fk.unair.ac.id	10/04/22
Fita Triastuti		fita.triastuti-2021@fk.unair.ac.id	10/04/22

Author Agreement Form

Manuscript Title: Higher Cardiovascular Risks and Atherogenic Index of Plasma Found in Police Officers of Developing Country in Surabaya, East Java, Indonesia

List of all Authors:

1. Primasitha Maharany Harsoyo
2. Meity Ardiana
3. Hanesty Oky Hermawan
4. Inna Maya Sufiyah
5. Dwika Rasyid Firmanda
6. Saskia Ratna Desita
7. Annisya Dinda Paramitha
8. Arisvia Sukma Hariftiyani
9. Farah Aisha Shabrina
10. Fita Triastuti

Corresponding Author:

Meity Ardiana, MD, Ph.D, FIHA, FICA, FAsCC

Address: 47 Mayjend. Prof. Moestopo, Surabaya, Indonesia-60285

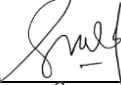






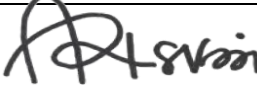


e-mail: meityardiana@fk.unair.ac.id

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Name of Author	Signature	e-mail	Date (dd/mm/yy)
Primasitha Maharany Harsoyo		primasitha.maharany.harsoyo-2020@fk.unair.ac.id	10/04/22
Meity Ardiana		meityardiana@fk.unair.ac.id	10/04/22
Hanestya Oky Hermawan		hanestya.oky20@fk.unair.ac.id	10/04/22
Inna Maya Sufiyah		mayasufiyah@gmail.com	10/04/22
Dwika Rasyid Firmanda		rraasyd@gmail.com	10/04/22
Saskia Ratna Desita		saskia.ratna.desita-2020@fk.unair.ac.id	10/04/22
Annisya Dinda Paramitha		annisya.dinda.paramitha-2020@fk.unair.ac.id	10/04/22
Arisvia Sukma Hariftyani		arisvia.sukma.hariftyani-2020@fk.unair.ac.id	10/04/22
Farah Aisha Shabrina		farah.aisha.abrina-2020@fk.unair.ac.id	10/04/22
Fita Triastuti		fita.triastuti-2021@fk.unair.ac.id	10/04/22

Higher Cardiovascular Risks and Atherogenic Index of Plasma Found in Police Officers of Developing Country in Surabaya, East Java, Indonesia

Running Title: Cardiovascular Risks in Police Officers

1. ABSTRACT

Background: Police officers are known for fieldwork shifts, psychological stress, and prolonged physical activity that are associated with cardiovascular disease (CVD). We aim to determine the differences in CVD risks factor and Atherogenic Index of Plasma (AIP) profiles as a predictor of cardiac events between police officers and civilians in a developing country as an evaluation and strategic preventive measure for CVD.

Methods: 978 participants were enrolled as subjects in this cross-sectional study. Data used were obtained during medical check-ups using complete physical and laboratory examinations including blood pressure, body mass index (BMI), triglycerides (TG), low-density lipoprotein cholesterol (LDL-C), high-density lipoprotein cholesterol (HDL-C), total cholesterol, fasting blood sugar, and AIP between 2019 to 2020 at Bhayangkara State Police Hospital Surabaya. Mann-Whitney U test was performed using IBM SPSS version 25.

Results: There are significant differences in systolic ($p=0.000$) and diastolic blood pressure ($p=0.003$), triglycerides ($p=0.000$), LDL-C ($p=0.006$), total cholesterol ($p=0.000$), fasting blood glucose ($p=0.001$), and the AIP ($p=0.000$) between the police and civilian groups, with the latter showing a tendency of having higher rates.

Conclusions: CVD risk was found in both groups. Nevertheless, police officers have higher AIP and overall CVD risk compared to civilians, creating a necessity for aggressive CVD prevention strategies within the population.

Keywords: Cardiovascular risks, atherogenic index of plasma, police officer, preventive cardiology, atherosclerosis

2. INTRODUCTION

Cardiovascular disease (CVD) is a concerning non-communicable disease due to its mortality rate¹. CVD is the number one cause of death globally according to WHO, reaching 17.9 million in 2019 and is predicted to increase by 2030². The global prevalence of CVD has nearly doubled from 271 million in 1990 to 523 million in 2019³. In Indonesia, the number of CVD sufferers reached 1,017,290 in 2018⁴, with the fourth-highest number of deaths worldwide due to CVD³.

CVD can be prevented through lifestyle modification and avoiding risk factors such as hypertension, smoking, obesity, unhealthy diet, lack of physical activity, increased fasting blood sugar, and dyslipidemia. Dyslipidemia is an increase in total cholesterol, low-density lipoprotein cholesterol (LDL-C), triglycerides (TG) followed by a decrease in high-density lipoprotein cholesterol (HDL-C)^{5,6}. Although therapies for heart disease have developed rapidly, lifestyle modification and risk management play an essential role in reducing CVD incidence. Maharani et al., 2019 stated that Indonesian adults had a high-risk CVD but low preventive treatment⁷. A cohort study of a good lifestyle reduced by 40% the relative occurrence of CVD⁸. In the US, a national lifestyle change program was associated with a lower CVD incidence⁹.

The atherogenic Index of Plasma (AIP) has been widely reported as a strong predictor and biomarker of CVD. AIP, calculated with $\log(TG/HDL-C)$, has been used to measure blood lipids and an optimal indicator of dyslipidemia and CVD¹⁰. Another study stated that AIP is also a strong predictor of CVD in postmenopausal women¹¹. An Iran study stated that AIP is closely related to physical activity and body mass index¹². Moreover, A Chinese Population Study found that AIP was closely related to coronary artery disease¹³. Increased triglycerides and total cholesterol cause vasoconstriction and endothelial dysfunction in coronary arteries, thereby increasing the risk of coronary artery disease¹⁴. AIP strongly correlates with carotid intima wall thickening¹⁵. Meta-analysis states that lipid profile predicts cardiovascular outcome and mortality¹⁶.

Police officers are known for fieldwork shifts and prolonged physical activity. Job-specific risk factors are associated with sudden physical activity, psychological stress, and long work shifts¹⁷. Long working hours disrupt circadian rhythms, increasing cortisol. Chronic increases in the hormone cortisol cause hypertension, impaired vascular remodeling, increased TG, and insulin resistance which are risk factors for CVD. In addition, psychological stress leads to oxidative stress which causes vascular endothelial damage. Furthermore, stress also increases sympathetic nerves, releasing catecholamine hormones, increasing blood pressure and heart rate, and inflammatory cytokine response that causes CVD¹⁸. In vivo studies suggest that chronic stress mice have an increased immune response that exacerbates arterial inflammation with unstable plaque¹⁹. According to a study in the US, stressful police work is associated with the risk of sudden cardiac death, especially during an emergency, compared to non-emergency²⁰. Therefore, the authors aim to determine the differences in CVD risks factor and Atherogenic Index of Plasma (AIP) profiles as a predictor of cardiac

events between police officers and civilians in a developing country as an evaluation and strategic preventive measure for CVD.

3. METHODS

489 police officers and 489 civilians were enrolled as participants in this cross-sectional study. All participants have given their informed consent and ethics for this study was approved by the Bhayangkara State Police Hospital ethics committee with decision number 10/IV/2021/KEPK/RUMKIT on April 7, 2021. Data used in this study was simultaneously obtained during medical check-ups between 2019 to 2020 at Bhayangkara State Police Hospital Surabaya.

All study samples met the inclusion criteria, namely 1) being an active field police officer (for police groups) and not working as field police officers (for civilian groups), 2) having completed the entire process of examination, 3) aged 21 or older, and 4) consented to being participants of study.

Independent variables examined in this study are blood pressure, BMI, TG, LDL-C, HDL-C, total cholesterol, fasting blood sugar, and atherogenic index plasma. Baseline characteristics including age and sex were recorded by interview and cross-checking with medical record.

Blood pressure measurements were carried out in a sitting position with the hands resting on the examination table and the cubital fossa at the same level as the heart. The measurements were taken after the patient had rested for 5 minutes, and repeated for the next 15 minutes. A digital blood pressure meter (model: HEM-8172, Omron Healthcare Co., Ltd., Kyoto, Japan) was used. The cut off value of blood pressure in this study refers to ESC 2018 guideline with the following criteria: normal systolic

blood pressure <120 mmHg and diastolic blood pressure <80 mmHg; prehypertension 120-139 mmHg for systolic blood pressure and 80-89 mmHg for diastolic blood pressure; stage I hypertension 140-159 mmHg for systolic blood pressure and 90-99 mmHg for diastolic blood pressure; and stage II hypertension \geq 160 mmHg for systolic blood pressure and \geq 100 mmHg for diastolic blood pressure.

Measurements of weight and height were carried out to find BMI (body mass index). BMI measurement used in this study refers to the WHO criteria measuring weight (kg) divided by (height)² (m²), resulting <18.5 classified as Underweight; 18.5-24.9 as Normal Weight; 25.0-29.9 as Overweight, and >30.0 as Obese. We used a mechanical weight scale (model: SMIC ZT-120, Gea Medical, Jakarta, Indonesia) for weight measurement. Height was measured by standing straight on the weight scale, barefooted, with the head facing straight ahead.

Dyslipidemia according to American Heart Association criteria is an increase in total cholesterol > 200 mg/dl, LDL-C > 130 mg/dl, TG > 150 mg/dl followed by a decrease in HDL-C < 40 mg/dl. AIP was calculated with $\log(TG/HDL-C)$, resulting -0.3-0.1 as low risk, 0.1-0.24 as moderate risk, and > 0.24 as high-risk occurrence of cardiovascular disease. Fasting blood sugar cut off value was categorized as < 6.1 mmol/L as normal and > 6.1 mmol/L as high. Blood samples were collected after overnight (8h) fasting and performed in the laboratory.

4. STATISTICAL ANALYSIS

Statistical tests using SPSS version 25. All variables were tested for normality using Kolmogorov-Smirnov and Shapiro-Wilk. Abnormal distributions are shown as mean and compared with the Mann-Whitney rank-sum test. Variables were then processed using the Mann-Whitney and Wilcoxon methods. Comparative analysis to determine

AIP and CVD risk in Police Officers and Civilian groups was carried out using the Mann-Whitney test.

5. RESULTS

978 participants were obtained, consisting of 489 police and 489 civilians. The participants were predominantly male with a mean age of 45.95 ± 7.42 . Nearly half of the participants appear in the prehypertension group. More than 70% of the participants were overweight and obese with a mean BMI of 26.34 ± 3.86 . High total cholesterol, high LDL, low HDL, and a high-risk score of AIP are primarily found. In contrast, the majority of the participants have normal fasting blood glucose and normal TG. More details about the participants are presented in Table 1.

For comparison between police and civilian groups, the police group was predominantly by male while women were dominant in civilian groups. There is a significant difference in systolic and diastolic blood pressure, TG, LDL, total cholesterol, fasting blood glucose, and AIP with $p < 0.05$. Police tend to have higher results in those significant factors compared to civilian groups. However, there is no significant difference in BMI and HDL-C between police and civilian groups (Table 2).

6. DISCUSSION

This study found that nearly half of the subjects had prehypertension, in the police and civilian groups. A study in Brazil reported that hypertension was the most common risk factor for CVD overall in both men and women. However, in each gender itself, prehypertension is mostly found in men (43.8%), while in women, normal blood pressure is mostly found (43.2%)²¹. Our study showed a significant difference in systolic blood pressure ($p=0.000$) and diastolic blood pressure ($p=0.003$)

between police and civilians. Police tend to have a high-stress work environment that leads to hypertension. A cohort study shows perceived stress and plasma oxidative stress is associated with hypertension in police officers²². In addition, a previous study stated that many police officers who worked for more than 6 years had hypertension, due to lack of activity outside of working hours²³.

BMI is correlated to CVD risk. In a group of farmers in Brazil, overweight farmers tend to have CVD²¹. A study in military police stated that more than a half police have obesity²². Study in the US stated that police tend to have obesity compared to the general population²³. There was no significant difference in BMI between police and civilians in this study. This is because many factors affect BMI, such as lack of sleep, length of works, and lifestyle²⁴. According to a study in Brazil, there was no relationship between BMI in police officers who worked 6 hours/day with 24 hours/day²⁵

Dyslipidemia is an increase in total cholesterol, LDL-C, TG followed by a decrease in HDL-C²⁶. This study showed significant differences in total cholesterol, LDL-C, and TG between police and civilian groups ($p < 0.05$). In the police group, most of them had high total cholesterol (61.8%) and TG (54.2%). This was in contrast to the civilian group, which had normal total cholesterol (51.1%) and TG (65.6%). Police officers with a stressful environment and work level are at risk of high pressure tend to be at risk of dyslipidemia. Previous research showed an association between stress levels and hypertriglyceridemia in police officers²⁷. This is supported by a study in Genoa that states a relationship exists between stress levels and increases in triglycerides and total cholesterol in police officers²⁸.

The prevalence of high fasting blood sugar was found in 21.9% in the police group and 14.1% in the non-police group. There was a significant difference in fasting blood sugar between the police and non-police groups ($p = 0.001$). A study in Ethiopia stated that high-ranking police officers were more at risk of developing diabetes mellitus than low-ranking police officers (AOR = 3.8, 95% CI, 1.1–13.7)²⁹. This is because high-ranking police officers tend to have a higher stress burden, thereby increasing the risk of developing diabetes mellitus. Psychological stress leads to oxidative stress, thereby triggering insulin resistance¹⁸. Studies in India found that police officers were more likely to have impaired fasting glucose than other workers³⁰. Another study in the military police population of Bahia, Brazil stated that 28.1% had impaired fasting glucose³¹.

AIP is an index consisting of TG and HDL-C and is a strong predictor of CVD and can be used as an alternative screening if all atherogenic parameters have normal results¹⁰. In this study, 91.4% of the police group were classified as high-risk groups. There is a significant difference in AIP between the police and civilian groups. Police tend to have hypertriglyceridemia, low HDL-C, and high total cholesterol increasing CVD incidence. In addition, AIP showed an association between protective and atherogenic lipoproteins used to predict CVD³².

This study shows significant differences in systolic blood pressure, diastolic blood pressure, TG, fasting blood glucose, and AIP between police and civilian groups. Studies in India show that police tend to have a high risk of CVD. In addition, a previous study stated the police have a risk for metabolic syndrome²³. Moreover, another study showed that operational police had a higher cardiovascular risk compared to non-operational police³³. This is slightly different in the study by Strauss

et al., 2020 which stated that there were no significant differences in HDL-C, TG, blood pressure, and BMI between female police officers and office workers³⁴.

7. STUDY LIMITATION

This study is of a relatively small sample size. The smoking habits, stress factor, and complete history of illness of subjects were not recorded. Furthermore, testings such as electrocardiogram, echocardiography, or CT-A calcium score may provide further valuable information. A cohort study design is recommended for future in order to describe risks factor of the disease.

8. CONCLUSION

CVD risk was found in both groups. Nevertheless, police officers have higher AIP and overall CVD risk compared to civilians, creating a necessity for aggressive CVD prevention strategies within the population. Early intervention is necessary for CVD prevention.

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10. CONFLICT OF INTEREST

The Authors have no conflict of interest

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