

## DAFTAR PUSTAKA

1. Heriansyah T. Hubungan Indeks Massa Tubuh Dengan Jumlah Circulating Endothelial Cell. *J Kedokt Syiah Kuala*. 2014;14(1):1-6.
2. International Food Policy Research Institute (IFPRI). Global Nutrition Report: Indonesia 2015 Nutrition Country Profile. Published online 2015:2014-2015. <http://globalnutritionreport.org/>
3. Anugrah S 2015. Published online 2015:32.
4. Nuraini B. Risk Factors of Hypertension. *J Major*. 2015;4(5):10-19.
5. Ratulangi USAM, Danes VR, Skripsi K, Fisika B, Universitas K, Ratulangi S. Analisa Hasil Pengukuran Tekanan Darah Antara Posisi Duduk Dan Posisi Berdiri Pada Mahasiswa Semester Vii (Tujuh) Ta. 2014/2015 Fakultas Kedokteran Universitas Sam Ratulangi. *eBiomedik*. 2015;3(1):125-129. doi:10.35790/ebm.3.1.2015.6635
6. Kemenkes RI. Hipertensi Si Pembunuh Senyap. *Kementrian Kesehat RI*. Published online 2019:1-5. <https://pusdatin.kemkes.go.id/resources/download/pusdatin/infodatin/infodatin-hipertensi-si-pembunuh-senyap.pdf>
7. Hidayah SN. Hubungan Obesitas Dengan Tekanan Darah Di Rt 05 Desa Kalisapu Kecamatan Slawi Kabupaten Tegal Tahun 2015. *Siklus J Res Midwifery Politek Tegal*. 2017;6(2):223-228. doi:10.30591/siklus.v6i2.581
8. J H, Andri J, Payana TD, Andrianto MB, Sartika A. Kualitas Tidur Berhubungan dengan Perubahan Tekanan Darah pada Lansia. *J Kesmas Asclepius*. 2020;2(1):1-11. doi:10.31539/jka.v2i1.1146

9. Rahmatillah VP, Susanto T, Nur KRM. Hubungan Karakteristik, Indeks Massa Tubuh (IMT) dengan Tekanan Darah pada Lanjut Usia di Posbindu. *Media Penelit dan Pengemb Kesehat*. 2020;30(3):233-240.  
doi:10.22435/mpk.v30i3.2547
10. Lemak K, Darah T, Consumption F. Program Studi Ilmu Kesehatan Masyarakat, STIKes Hang Tuah Pekanbaru %. 2011;1(5):129-135.
11. Anugrah S 2015. 2015;1:32.
12. Bahan BA, Roman TN. Rancang Bangun Aplikasi “ BMI ( Body Mass Index ) Calculator ” Berbasis Android Dengan Native Java Rancang Bangun Aplikasi “ BMI ( Body Mass Index ) Calculator ” Berbasis Android Dengan Native Java. 2021;(July):0-9.
13. Siswa G, Di S, Dasar S, Mangli N. Skripsi hubungan konsumsi makanan. Published online 2017.
14. PER-01/PJ/2017 N. *Occup Med (Chic Ill)*. 2017;53(4):130.
15. Sari AP, Wahyuni ED, Program M, et al. Perubahan Tekanan Darah Pada Lansia Dengan Hipertensi Melalui Therapeutical Gardening Di Upt Pslu Magetan. *Crit Med Surg Nurs J*. 2014;3(1):1-10.  
<https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=4&cad=rja&uact=8&ved=2ahUKEwiQyIOdieTIAhWx7HMBHZ6qCwsQFjADegQIABAC&url=http://journal.unair.ac.id/download-fullpapers-cmsnjcfa1cb64a52full.pdf&usg=AOvVaw2BIvgCUWVOGP7EftLQtbtu%0Ahttps://>
16. Whelton PK, Carey RM, Aronow WS, et al. 2017

ACC/AHA/AAPA/ABC/ACPM/AGS/APhA/ASH/ASPC/NMA/PCNA  
Guideline for the Prevention, Detection, Evaluation, and Management of High  
Blood Pressure in Adults: A Report of the American College of  
Cardiology/American Heart Association Task Force on Clinical Pr. *J Am Coll  
Cardiol.* 2018;71(19):e127-e248. doi:10.1016/j.jacc.2017.11.006

17. Sagaro GG, Di Canio M, Amenta F. Correlation between body mass index and blood pressure in seafarers. *Clin Exp Hypertens.* 2021;43(2):189-195. doi:10.1080/10641963.2020.1836193
18. Wibowo C. The Relationship of Physical Activity and Body Mass Index with Blood Pressure in the Elderly at Social Foundation of Salib Putih Salatiga Nursing Home. 2020;23(UnICoSS 2019):74-76. doi:10.2991/ahsr.k.200305.023
19. Sc M, Hasabo EA, Musa OA. Relationship between Blood Pressure and Body Mass Index among Adult Sudanese population A Thesis Submitted for Partial Fulfillment of the Requirements Relationship between Blood Pressure and Body Mass Index among Adult Sudanese population. Published online 2017:1-18.
20. Hatzimanouil D, Natsis K, Lazaridis S, et al.
21. Suwito BE, Kalanjati VP, Abdurachman A. Blood Type and Blood Pressure Correlations to Body Mass Index in Young Adults. *Folia Medica Indones.* 2021;56(3):203. doi:10.20473/fmi.v56i3.24557
22. Abro SU, Saleem Q, Rizwan M, Aamir E, Soomro S, Ali M. Correlation of body mass index with blood pressure: A gender based comparison in medical students. *Prof Med J.* 2019;26(11):1958-1964. doi:10.29309/tpmj/2019.26.11.3656
23. Yang Y, Dong B, Wang S, et al. Prevalence of high blood pressure subtypes and

- its associations with BMI in Chinese children: A national cross-sectional survey. *BMC Public Health*. 2017;17(1):2-9. doi:10.1186/s12889-017-4522-2
24. Saury-Paredes LA. Prevalence of high blood pressure and its association with body mass index in children aged 5 to 11 years in Nahbalam, Yucatán. *Gac Med Mex*. 2016;152(5):640-644.
25. Chaudhary S, Alam M, Singh S, Deuja S, Karmacharya P, Mondal M. Correlation of Blood Pressure with Body Mass Index, Waist Circumference and Waist by Hip Ratio. *J Nepal Health Res Counc*. 2019;16(41):410-413. doi:10.33314/jnhrc.v16i41.1560
26. Astuti Y, Jenie IM. Correlation of body mass index on waist circumference and blood pressure. *Int J Public Heal Sci*. 2020;9(4):373-378. doi:10.11591/ijphs.v9i4.20443
27. Lyall DM, Celis-Morales C, Ward J, et al. Association of body mass index with cardiometabolic disease in the UK biobank: A mendelian randomization study. *JAMA Cardiol*. 2017;2(8):882-889. doi:10.1001/jamacardio.2016.5804
28. Fletcher RD, Jones R, Moore H, et al. Increased Body Mass Index (Bmi) Promotes Hypertension and Worsens Blood Pressure Control Among Us Veterans. *J Am Coll Cardiol*. 2018;71(11):A1817. doi:10.1016/s0735-1097(18)32358-1
29. Isezuo KO, Jiya NM, Audu LI, et al. Blood pressure pattern and the relationship with body mass index among apparently healthy secondary - School students in Sokoto Metropolis, Nigeria. *SAJCH South African J Child Heal*. 2018;12(3):105-110. doi:10.7196/SAJCH.2018.v12i3.1475

30. Sunil Kumar Jena MP. Relationship between Body Mass Index and Blood Pressure in School Students. *Dep Physiol VIMSAR, Burla, 1Department Physiol SCB Med Coll Cuttack, Odisha, India*. 2021;1(2):2-4. doi:10.4103/cjhr.cjhr
31. Ghomari-Boukhatem H, Bouchouicha A, Mekki K, Chenni K, Belhadj M, Bouchenak M. Blood pressure, dyslipidemia and inflammatory factors are related to body mass index in scholar adolescents. *Arch Med Sci*. 2017;13(1):46-52. doi:10.5114/aoms.2017.64713
32. Rehab Jamal Aldeen Daf Alla. Faculty of Graduate Students & Scientific research Body mass index and blood pressure levels among adult Sudanese in Khartoum State Quranic verse Say , He is Allah , the One and Only. *Natl Ribat Univ Fac Grad Students Sci Res*. Published online 2017:0-25.
33. Guo X, Xu Y, He H, et al. Effects of a Meal Replacement on Body Composition and Metabolic Parameters among Subjects with Overweight or Obesity. *J Obes*. 2018;2018. doi:10.1155/2018/2837367
34. Patients H, Kiambu A, Hospital D. Relationship between Body Mass Index and Blood Pressure Level in International Journal of Health Sciences and Research Relationship between Body Mass Index and Blood Pressure Level in Hypertensive Patients Attending Kiambu District Hospital , Kenya. 2017;(August 2019).
35. Landi F, Calvani R, Picca A, et al. Body mass index is strongly associated with hypertension: Results from the longevity check-up 7+ study. *Nutrients*. 2018;10(12):1-12. doi:10.3390/nu10121976
36. DeMarco VG, Aroor AR, Sowers JR. The pathophysiology of hypertension in

- patients with obesity. *Nat Rev Endocrinol*. 2014;10(6):364-376.  
doi:10.1038/nrendo.2014.44
37. Aroor AR, DeMarco VG, Jia G, et al. The Role of Tissue Renin-Angiotensin-Aldosterone System in the Development of Endothelial Dysfunction and Arterial Stiffness. *Front Endocrinol (Lausanne)*. 2013;4(October):1-8.  
doi:10.3389/fendo.2013.00161
  38. Sandoo A, Veldhuijzen van Zanten JJC., Metsios GS, Carroll D, Kitas GD. The Endothelium and Its Role in Regulating Vascular Tone. *Open Cardiovasc Med J*. 2015;4(1):302-312. doi:10.2174/1874192401004010302
  39. Muniyappa R, Sowers JR. Role of insulin resistance in endothelial dysfunction. *Rev Endocr Metab Disord*. 2013;14(1):5-12. doi:10.1007/s11154-012-9229-1
  40. DeMarco VG, Johnson MS, Whaley-Connell AT, Sowers JR. Cytokine abnormalities in the etiology of the cardiometabolic syndrome. *Curr Hypertens Rep*. 2010;12(2):93-98. doi:10.1007/s11906-010-0095-5
  41. Leal V de O, Mafra D. Adipokines in obesity. *Clin Chim Acta*. 2013;419:87-94.  
doi:10.1016/j.cca.2013.02.003
  42. Brown NJ. Contribution of aldosterone to cardiovascular and renal inflammation and fibrosis. *Nat Rev Nephrol*. 2013;9(8):459-469. doi:10.1038/nrneph.2013.110
  43. Kurukulasuriya LR, Stas S, Lastra G, Manrique C, Sowers JR. Hypertension in Obesity. *Med Clin North Am*. 2011;95(5):903-917.  
doi:10.1016/j.mcna.2011.06.004
  44. Montecucco F, Pende A, Quercioli A, Mach F. Inflammation in the pathophysiology of essential hypertension. *J Nephrol*. 2011;24(1):23-34.

doi:10.5301/JN.2010.4729

45. Johnson RJ, Nakagawa T, Sanchez-Lozada LG, et al. Sugar, uric acid, and the etiology of diabetes and obesity. *Diabetes*. 2013;62(10):3307-3315.  
doi:10.2337/db12-1814
46. Vogt B, Bochud M, Burnier M. The Association of Aldosterone With Obesity-Related Hypertension and the Metabolic Syndrome. *Semin Nephrol*. 2007;27(5):529-537. doi:10.1016/j.semnephrol.2007.07.009
47. Willenberg HS, Schinner S, Ansurudeen I. New mechanisms to control aldosterone synthesis. *Horm Metab Res*. 2008;40(7):435-441. doi:10.1055/s-2008-1065336
48. Kidambi S, Kotchen JM, Grim CE, et al. Association of adrenal steroids with hypertension and the metabolic syndrome in blacks. *Hypertension*. 2007;49(3 PART 2 SUPPL.):704-711. doi:10.1161/01.HYP.0000253258.36141.c7
49. Engeli S, Böhnke J, Gorzelnik K, et al. Weight loss and the renin-angiotensin-aldosterone system. *Hypertension*. 2005;45(3):356-362.  
doi:10.1161/01.HYP.0000154361.47683.d3
50. Sironi AM, Gastaldelli A, Mari A, et al. Visceral fat in hypertension: Influence on insulin resistance and  $\beta$ -cell function. *Hypertension*. 2004;44(2):127-133.  
doi:10.1161/01.HYP.0000137982.10191.0a
51. Agapitov AV, Correia MLDG, Sinkey CA, Haynes WG. Dissociation between sympathetic nerve traffic and sympathetically mediated vascular tone in normotensive human obesity. *Hypertension*. 2008;52(4):687-695.  
doi:10.1161/HYPERTENSIONAHA.107.109603

52. Lambert GW, Straznicky NE, Lambert EA, Dixon JB, Schlaich MP. Sympathetic nervous activation in obesity and the metabolic syndrome-Causes, consequences and therapeutic implications. *Pharmacol Ther.* 2010;126(2):159-172.  
doi:10.1016/j.pharmthera.2010.02.002
53. Hall JE, Da Silva AA, Do Carmo JM, et al. Obesity-induced hypertension: Role of sympathetic nervous system, leptin, and melanocortins. *J Biol Chem.* 2010;285(23):17271-17276. doi:10.1074/jbc.R110.113175
54. Lohmeier TE, Iliescu R. The sympathetic nervous system in obesity hypertension. *Curr Hypertens Rep.* 2013;15(4):409-416. doi:10.1007/s11906-013-0356-1
55. Smith MM, Minson CT. Obesity and adipokines: Effects on sympathetic overactivity. *J Physiol.* 2012;590(8):1787-1801.  
doi:10.1113/jphysiol.2011.221036
56. Lurbe E, Torro I, Aguilar F, et al. Added impact of obesity and insulin resistance in nocturnal blood pressure elevation in children and adolescents. *Hypertension.* 2008;51(3):635-641. doi:10.1161/HYPERTENSIONAHA.107.099234
57. Dangardt F, Volkmann R, Chen Y, Osika W, Mårild S, Friberg P. Reduced cardiac vagal activity in obese children and adolescents. *Clin Physiol Funct Imaging.* 2011;31(2):108-113. doi:10.1111/j.1475-097X.2010.00985.x
58. Jensen MD. Role of body fat distribution and the metabolic complications of obesity. *J Clin Endocrinol Metab.* 2008;93(11 SUPPL. 1):57-63.  
doi:10.1210/jc.2008-1585
59. Shi J, Fan J, Su Q, Yang Z. Cytokines and Abnormal Glucose and Lipid



Metabolism. *Front Endocrinol (Lausanne)*. 2019;10(October):1-16.

doi:10.3389/fendo.2019.00703

## LAMPIRAN 1 : BIODATA PENULIS

### A. Data Pribadi

Nama : Excel Gabriel Pangalinan  
Nama Panggilan : Excel  
Tempat, Tanggal Lahir : Jakarta, 23 September 2000  
Jenis Kelamin : Laki-laki  
Agama : Katolik  
Alamat : Perumahan Telkomas Jalan Telkom 2 No.128  
Nama Ayah : Victor Pangalinan  
Nama Ibu : Merry Ultah Supersemar Sambara  
Pekerjaan Orang Tua : Wiraswasta  
Alamat Orang Tua : Perumahan Telkomas Jalan Telkom 2 No.128  
Anak Ke- : 2 dari 3  
No.HP : 08996766822  
E-mail : [excelgabriel23@gmail.com](mailto:excelgabriel23@gmail.com)  
Line ID : excelgabriel23  
Hobi : Futsal

### B. Pendidikan Formal

Tahun	Institut	Keterangan
2005-2006	TK Souverdi Bali	
2006-2012	SD FRATER BAKTI LUHUR	
2012-2015	SMP KATOLIK RAJAWALI	
2015-2018	SMAN 5 MAKASSAR	MIPA
2018-Sekarang	UNIVERSITAS HASANUDDIN	Kedokteran Umum

### C. Riwayat Organisasi

2017-2018	FC Smunel	Anggota
2018-Sekarang	Hipocrates FC	Koordinator Bidang Pendidikan
2018-Sekarang	Keluarga Katolik Mahasiswa Kedokteran	Anggota