

DAFTAR PUSTAKA

1. Adeliem, Zuleika P, 2018, 'Pemeriksaan Eosinofil Kerokan Mukosa Hidung pada Penderita Rinitis Alergi' JK Unila, vol.2(2):151-6.
2. Albu S, 2020, 'Chronic Rhinosinusitis-An Update on Epidemiology, Pathogenesis and Management', J. Clin. Med.vol.9:2285; DOI:10.3390/jcm9072285.
3. Alfarado J, Stolovitzky P, 2020 'Management of pediatric chronic rhinosinusitis', Curr Treat Options Allergy, DOI 10.1007/s40521-020-00268-6.
4. Arumaningsih F, Suhariyadi, 2018, 'Hubungan Nilai Sel Polimorfonuklear (Neutrofil, Eosinofil, dan Basofil) dengan Kadar Procalcitonin pada Pasien Sepsis Bakteri', Analis Kesehatan Sains, vol.7(2):609-17.
5. Assicot M, Bohuon C, Gendrel D, Raymond J, Carsin H, Guilbaud J. 1993, 'High serum procalcitonin concentration in patients with sepsis and infection', The Lancet. 341:515-8.
6. Bachert C, and Tomassen P, 2019, 'Endotype-driven approach for chronic rhinosinusitis', Elsevier Inc.p.51-7.
7. Baskara E, 201, 'Perbedaan pengaruh pemberian propofol dan etomidate terhadap kadar procalcitonin pada operasi mastektomi, Universitas Diponegoro.
8. Bardy J, Boase S, Psaltis A, et al, 2012, 'A Randomized trial of mupirocin sinonasal rinses versus saline in surgically recalcitrant staphylococcal chronic rhinosinusitis', Laryngoscope, 122:2148-53.
9. Bilici S, Cinar Z, Yigit O, et al, 2019, 'Does Procalcitonin Have A Role In The Pathogenesis Of Nasal Polyp?', In European Archives of Oto-Rhino-Laryngology:1-6.
10. Boase S, Foreman A, Cleland E, et al, 'The microbiome of chronic rhinosinusitis: culture, molecular diagnostics and biofilm detection. BMC Infectious Diseases. 13(210):1-9.
11. Busquets JM, Hwang PH. 2006. Nonpolypoid rhinosinusitis: Classification, diagnosis and treatment. In Bailey BJ, Johnson JT, Newlands SD, eds. Head & Neck Surgery – Otolaryngology. 4th ed. Vol 1. Philadelphia: Lippincott Williams & Wilkins ; 406-416.
12. Cahayasari F, Reniarti L, Chairulfatah A, 2012, 'Kadar procalcitonin pada anak dengan neutropenia', Departemen Ilmu Kesehatan Anak Fakultas Kedokteran Universitas Padjadjaran, vol(2):104-9.
13. Cain RB, Lal D, 2013, 'Update on management of chronic rhinosinusitis', Infect Drug Resist, 6:1-14.
14. Candra EW, Sumarman I, Ratunanda SS, et al, 2014, ' Hubungan kadar IL-8 sekret mukosa hidung pada rinosinusitis kronik tanpa polip-non alergi dengan fungsi penghidu setelah pemberian antibiotik makrolid', Universitas Padjadjaran. vol.46(1):6–14.
15. Castanoglu R, Licari A, Brambilla I, et al, 2020, ' An update on the role of chronic rhinosinusitis with nasal polyps as a co-morbidity in severe

- asthma' Expert Review Of Respiratory Medicine, <https://doi.org/10.1080/17476348.2020.1812388>.
16. Chalermwatanachai T, Zhang N, Holtappels G, et al, 2015,'Association of Mucosal Organism with Pattern of Inflammation in Chronic Rhinosinusitis',Plos One:1-11.
 17. Chan Y, Goddard J, 2016,'Acute and chronic sinusitis', In:K.J.Lee's Essential Otolaryngology Head and Neck Surgery. Eleventh edition, New York: Mc Graw Hill:491-509.
 18. Cho, S. H., Hong, S.J., Han, B., Lee, S.H., Suh, L., Norton, J., dkk. Age-related differences in the pathogenesis of chronic rhinosinusitis. The Journal of Allergy and Clinical Immunology; 2011; 129(3): 858–860.
 19. Clement PAR, 2006,'Classification of rhinosinusitis. In Brook I,eds. Sinusitis from microbiology to management. New York:Taylor & Francis.15-34.
 20. Cho, SW. et al . 2017. Classification of chronic rhinosinusitis according to a nasal polyp and tissue eosinophilia : limitation of current classification system for Asian population. Asia Pacific Allergy 122-130.
 21. Crain MC, Schuetz M, Huber HR, 2008,'Procalcitonin: Importance for The Diagnosis Bacterial Infections, J Lab Med 2008;32(6).
 22. Crobach M, Hermans J, Kaptein A, et al, 2009,'Nasal Smear Eosinophilia for The Diagnosis of Allergic Rhinitis and Eosinophilic Non-Allergic Rhinitis'In Scandinavian Journal of Primary Health Care, vol.14(2):116-21.
 23. Curragh D, Bassiouni A, Valle LM, et al, 2019,' The Microbiome of the Nasolacrimal System and Its Role in Nasolacrimal Duct Obstruction', *Ophthalmic Plast Reconstr Surg, Vol. XX, No. XX*.
 24. Dewi AR, Sutanegara SW, Saputra KA, 2019,' Perbandingan gejala klinis dan histopatologis pada rhinosinusitis kronis dengan polip nasal eosinofilik (eCRSWNP) dan non-eosinofilik (non-eCRSWNP) di RSUP Sanglah, Denpasar periode Januari 2017-September 2018', Jurnal Medika Udayana, vol.8(7).
 25. Dharaniyadewi D, Lie KC, Suwanto S, 2015,'Peran Procalcitonin sebagai Penanda Inflamasi Sistemik pada Sepsis',Jurnal Penyakit Dalam Indonesia, vol.2(2): 116-23.
 26. Dhingra PL, Dhingra S, 2016,'Anatomy of Nose' In: Diseases of ear, nose and throat & Head and neck surgery 7th edition, Elsevier, vol. 56(7):149-55.
 27. Dellinger AE, Peters AT, Wunderink RG, et al, 2018, 'Procalcitonin As A Biomarker In Rhinosinusitis: A Systematic Review',In American Journal of Rhinology & Allergy:1-10.
 28. Dong D, Thomas N, Ramenzapour R, et al, 2020,'Inhibition of Staphylococcus aureus and Pseudomonas aeruginosa biofilms by quatsomes in low concentrations',Experimental Biology and Medicine 2020; 0: 1–8. DOI: 10.1177/1535370219896779.

29. Fenty, Virginia DM, 2014, 'Hubungan procalsitonin dan gambaran morfologi leukosit pada Infeksi bakterial', *Jurnal Farmasi Sains dan Komunitas*, vol.11(2): 81-5.
30. Fokkens WJ, Lund VJ, Mullol J, et al.2012. European position paper on rhinosinusitis and nasal polyps. *Rhinol Suppl*;3:1–298.
31. Fokkens W, Lund V, Mullol J, et al, 2020, 'European Position Paper On Rhinosinusitis And Nasal Polyps', In *Rhinology Journal of European and International Society*, vol.58(29):1-481.
32. Ginanjar E, Puspitasari A, Rinawati W, et al. 2020. Pedoman standar perlindungan dokter di era COVID-19. *Tim Mitigasi Dokter dalam Pandemi COVID-19 PB IDI*.
33. Hamilos, DL, 2011, 'Chronic Rhinosinusitis: Epidemiology and Medical Management', *J.Allergy Clin.Immunol*:128, 693-709.
34. Hastan D., Fokkens W, Bachert C, Newson RB, et al, 2011, 'Chronic rhinosinusitis in Europe-An underestimated disease.AGA(2)LEN study *Allergy*.vol.66,1216 -23.
35. Hwang PH, Irwin SB, Griest SE, Caro JE, Nesbit GM. 2003. Abstrak:Radiologic Correlates of Symptom-based Diagnostic Criteria for Chronic Rhinosinusitis, *Otolaryngology-Head and Neck Surgery*, Vol.128, Issue 4.
36. Iskandar HR, Pudjiadi A, Mulyo D, Pratiwi A, Suryatin Y,2010,'Sensitivitas dan Spesifitas Pemeriksaan Procalcitonin, C-Reactive Protein (CRP), dan Hitung Leukosit untuk Memprediksi Infeksi Bakterial pada Sindrom Syok Dengue Di Pediatric Intensive Care Unit', *Sari Pediatri*, vol.12(4):233-40.
37. Junqueira, L. Carlos, Jose Carneiro, Robert O. Kelley. 1997. *Histologi dasar*. Edisi 8. Terjemahan: Jan Tambayong. Jakarta: EGC. hal. 231-240, 357-364.
38. Johnson JT, Ferguson BJ, 2005,'Chronic sinusitis', In Cummings CW, Flint PW,et al eds. *Cummings: otolaryngology - head & neck surgery*. 4th ed. Philadelphia: Elsevier Mosby:1-4.
39. Kaper NM, Heijden GJ, Cuijpers SH, et al, 2019,' A comparison of international clinical practice guidelines on adult chronic rhinosinusitis shows considerable variability of recommendations for diagnosis and treatment', Springer-Verlag GmbH Germany, part of Springer Nature. *European Archives of Oto-Rhino-Laryngology*, <https://doi.org/10.1007/s00405-019-05752-7>.
40. Kayode AS, Orewole TO, 2020,'Topical Management of chronic rhinosinusitis-A literature review', *Advanced Treatments in ENT Disorders*. Heighten Science Publications Corporation ISSN 2640-777.
41. Kentjono WA, 2004,'Rinosinusitis: Etiologi dan Patofisiologi dalam Pendidikan Berkelanjutan IV/IK.THT-KL, Surabaya:1-5.
42. Kofteridis DP, Samonis G, Karatzanis AD, et al, 2009,'C-Reactive Protein and Serum Procalcitonin Levels as Markers of Bacterial Upper Respiratory Tract Infections',In *American Journal of Infectious Diseases*, vol.5(4): 282-7.

43. Leung R, Conley D, Kern R, Chandra R, 2011, 'Obstruction is not Associated with Adjacent Sinus Disease in Chronic Rhinosinusitis with Polyps', *AJRA*, In Press.
44. Leung RM, Walsh WE, Kern RC, 2014, 'Sinonasal Anatomy and Physiology. In: Jhonson JT, Rosen CA, editors. *Bailey's Head and Neck Surgery Otolaryngology*. Fifth Edition, Philadelphia, Lippincott Williams & Wilkins: 359-69.
45. Liang J, Lane AW, 2013, 'Topical drug delivery for chronic rhinosinusitis', *Curr Otorhinolaryngol Rep*, 1:51-60, DOI 10.1007/s40136-012-0003-4.
46. London, NR, Tharakan A, Ramanathan M, 2016, 'The role of innate immunity and aeroallergens in chronic rhinosinusitis', In: Poetker D, Reh DD, Woodworth BA, eds. *Advances in ORL: Chronic Rhinosinusitis with Nasal Polyposis*, Karger Publishing, Basel, Switzerland.
47. Lou, H. et al. 2018. Highlights of eosinophilic chronic rhinosinusitis with nasal polyps definition, prognosis and advancement in : international forum of Allergy and Rhinology p.1-8
48. Luhulima D, Hidayati W, Rejeki IS, Permatasari R, 2013, 'Eosinopenia dan Procalcitonin Dalam Sepsis', *Indonesian Journal of Clinical Pathology and Medical Laboratory*, vol.19(2):119-25.
49. Mangunkusumo E, Soetjipto D, 2007, 'Sinusitis dalam Buku Ajar Ilmu Kesehatan Telinga Hidung Tenggorok Kepala dan Leher, edisi VI, Fakultas Kedokteran Universitas Indonesia, Jakarta:150-4.
50. Min HJ, Yoon JH, Kim CH, 2016, 'HSP70 is associated with the severity of inflammation in chronic rhinosinusitis', *American Journal of Rhinology & Allergy*, vol.30(4):101-6.
51. Miljkovic D, Psaltis A, Wormald P, et al, 2017, 'Chronic Rhinosinusitis with Polyps Is Characterized by increased mucosal and blood th17 effector cytokine producing cells', *Frontiers in Physiology*, vol.8, DOI:10.3389/fphys.2017.00898.
52. Moore, Keith L., Arthur F Dalley, and A. M. R Agur. *Essential Clinically Oriented Anatomy*. 5th ed. Philadelphia: Lippincott Williams & Wilkins, 2015.
53. Morris C, Paul K, Safranek S, 2016, 'Procalcitonin Guided Antibiotic Therapy for Acute Respiratory Infections', In *American Family Physician*, vol.94(1): 53-8.
54. Morath C, Sis J, Haensch G, et al, 2007, 'Procalcitonin as marker of infection in patients with Goodpasture's syndrome is misleading', In *Nephrology Dialysis Transplantation*, vol.22: 2701-4.
55. Muin RY, Muhadi D, Arif M, 2009, 'Eosinofil Pasca Mengerok Mukosa Hidung dan Pemeriksaan Darah Rutin Di Rinitis Alergi' *Indonesian Journal of Clinical Pathology and Medical Laboratory*, vol.16(1): 36-8.

56. Mustafa M, Patawari P, Iftikhar HM, *et al*, 2015, 'Acute and Chronic Rhinosinusitis, Pathophysiology and Treatment', *International Journal of Pharmaceutical Science Intervention*, vol.4(2): 30-6.
57. Naclerio MR, & Durham S, 1999, 'Rhinitis: Mechanism and Management. New York, Marcel Decker.
58. Nasronudin, 2011, *Penatalaksanaan sepsis pada keganasan leher*, Airlangga University Press, Surabaya, vol.2:289-91.
59. Netter FH, 2006, 'Atlas of Human Anatomy 6th edition, New York, Elsevier: 42-3.
60. Önerci, T.M. & Ferguson, B.J. *Nasal Polyposis: Pathogenesis, Medical and Surgical Treatment*. Springer Berlin Heidelberg. 2010. h. 53-63.
61. Ooi ML, Richter K, Bennet C, *et al*, 2018, 'Topical colloidal silver for the treatment of recalcitrant chronic rhinosinusitis', *Frontiers in Microbiology*, vol.9, DOI:10.3389/fmicb.2018.00720.
62. Osguthorpe JD, 2001, 'Adult Rhinosinusitis: Diagnosis and Management', *American Family Physician*: 63:69-74.
63. Panchatcharam BS, Cooksley CM, Ramezanpour M, *et al*, 2020, 'Panchatcharam BS, Cooksley CM, Ramezanpour M, *et al*, 2020, 'Staphylococcus aureus biofilm exoproteins are cytotoxic to human nasal epithelial barrier in chronic rhinosinusitis', *Int Forum Allergy Rhinol*. vol.00:1-13.
64. Paramythiotis *et al*, 2009, 'Biomarker and Physiological Agents in severe Sepsis and Septic Shock', In: *Severe Sepsis and Septic Shock-Understanding a Serious Killer*, Greece:University Hospital Thessaloniki.
65. Patel GB, Kern RC, Bernstein J, *et al*, 2020, 'Current and future treatments of rhinitis and sinusitis', *J Allergy Clin Immunol Pract* vol.8:1522-31.
66. Patel ZM, Hwang PH, 2014, 'Nonpolypoid Rhinosinusitis: Pathogenesis, Diagnosis, Staging, and Treatment, In Jhonson JT, Rosen CA editors. *Bailey's Head and Neck Surgery Otolaryngology*. Fifth Edition, Philadelphia, Lippincot William & Wilkins: 535-49.
67. Punagi AQ, 2008, 'Pola Penyakit Sub Bagian Rinologi di RS Pendidikan Makassar periode 2003-2008, Bagian Ilmu Kesehatan THT-KL, Fakultas Kedokteran Universitas Hasanuddin.
68. Punagi AQ, 2018, 'Polip Sinonasal', *Digi Pustaka*, Universitas Hasanuddin.
69. Rosenfeld RM, *et al*. 2015 : Clinical practice guideline (update): adult sinusitis executive summary. *Otolaryngol Head Neck Surg*;152:598–609.
70. Rot P, Rapiejko P, Jurkiewicz D, 2020, 'Intranasal steroid therapy–EPOS 2020', *Otolaryngol Pol* 2020;74(3): 41-49.
71. Sayin I, Orhan N, Sevgili N, *et al*, 2020, ' Precision medicine for treatment of rhinosinusitis: biologics', *Turkiye Klinikleri J Med Sci*.vol.40(2):242-9.

72. Schuetz P, Wirz Y, Sager R, et al, 2018,'Effect of Procalcitonin guided antibiotic treatment on mortality in acute respiratory infections:a patient level meta analysis' In *Lancet Infect Dis*, vol.18: 95-107.
73. Shah SA, Ishinaga H, Takeuchi K, 2016,'Pathogenesis of Eosinophilic Chronic Rhinosinusitis' In *Journal of Inflammation*, vol.13(11): 1-9.
74. Shi H, 2004,'Eosinophils function as antigen presenting cells',*J Leukoc Biol*: 76(52).
75. Snidvongs K, Sangubol M, Poachanukoon O, 2020,'Pediatric vs adult chronic rhinosinusitis', *Current Allergy and Asthma Reports* <https://doi.org/10.1007/s11882-020-00924-6>.
76. Spits, Hergen; Cupedo, Tom (2012). "Innate lymphoid cells: emerging insights in development, lineage relationships, and function". *Annual Review of Immunology*. 30 :647–675. DOI:10.1146/annurevimmunol020711075053. PMID 22224763.
77. Sipayung E, 2015,'Eosinopenia Sebagai Penanda Dini Diagnosis Sepsis Bakterialis, Universitas Sumatera Utara.
78. Soetjipto D, Mangunkusumo E, 2007,'Sinus Paranasal dalam Buku Ajar Ilmu Kesehatan Telinga Hidung Tenggorok Kepala dan Leher, Soepardi E (Editor), edisi VI, Fakultas Kedokteran Universitas Indonesia, Gaya Baru, Jakarta: 145-9.
79. Soetjipto D, Dharmabakti U, Babinski TM, et al, 2012,'Functional Endoscopic Sinus Surgery di Indonesia',*Panel Ahli THT Indonesia*: 1-52.
80. Sood A, 2005,'Diagnostic significance of nasal eosinophilia in allergic rhinitis', *Ind J Otorhinolaryngol Head Neck Surg*; 57:13-6.
81. Soreng K, Levy HR. Procalcitonin: an emerging biomarker of bacterial sepsis. *Clinical Microbiology Newsletter*. 2011;33(22):171-78.
82. Sreeparvathi A, Kalyanikuttyamma LK, Kumar M, Sreekumar N, Veerasigamani N,2017,'Significance of Blood Eosinophil Count in Patients with Chronic Rhinosinusitis with Nasal Polyposis',*In Journal of Clinical and Diagnostic Research*, vol.11(2): 8-11.
83. Sudiro M, Madiadipoera TH, Purwanto B,2010,'Eosinofil kerokan mukosa hidung sebagai diagnostik rinitis alergi',*MKB*; 42(1):6-11.
84. Syuhada, O., Shalini, P., Lim, W.K., Anmar, A., Suria, M.P., Aneeza, W.H., dkk. Malaysian Nasal Polyps: Eosinophil or Neutrophil Predominant. *Med & Health*; 2016; 11(1): 56– 61.
85. Tan N, Drilling A, Jardeleza C, et al, 2014' Is nasal steroid spray bottle contamination a potential issue in chronic rhinosinusitis?', *The Journal of Laryngology & Otology*, vol.128 (Suppl.S1):28–33.
86. Tomassen P, Vandeplas G, van Zele T, Cardell LO, Arebro J, Olze H, et al. Inflammatory endotypes of chronic rhinosinusitis based on cluster analysis of biomarkers. *J Allergy Clin Immunol* 2016 May;137(5):1449-56.

87. Tsybikov N, Egorova E, Kuznik B, et al, 2016' Heat shock protein 70 and anti-heat shock protein 70 antibodies in nasal secretions of patients with chronic rhinosinusitis', *Allergy & Rhinology*, vol.7(1):14-20, DOI: 10.2500/ar.2016.7.0149.
88. Turhal G, Eraslan S, Kaya I, et al, 2019,'Procalcitonin Levels in Chronic Rhinosinusitis', In *Turk Arch Otorhinolaryngology*, vol.57(3): 113-6.
89. Uren B, Psaltis A, Wormald PJ, 2008,' Nasal lavage with mupirocin for the treatment of surgically recalcitrant chronic rhinosinusitis', *Laryngoscope*, 118:1677-680.
90. Van Crombruggen et al. Pathogenesis Of Chronic Rhinosinusitis: Inflammation. *J Allergy Clin Immunol*. 2011 Oct;128(4):728-32.
91. Vijayan A, Vanimaya, Ravindran S, et al, 2017,'Procalcitonin:a promising diagnostic marker for sepsis and antibiotic therapy', *Journal of Intensive Care*, vol.(5)51, DOI 10.1186/s40560-017-0246-8.
92. Wahid S, Miskad UA, 2016,'Imunologi', Brilian Internasional, hal.13-5.
93. Wahyuddin AM, 2017,' Akurasi Diagnostik Prokalsitonin Sebagai Penanda Serologis Untuk Membedakan Antara Sepsis Bakterial dan Virus', Universitas Hasanuddin.
94. Wan YY, 2010,'Multi-tasking of helperT cells', *Immunology*: 166-71.
95. Wardana IG, 2017,'Rinosinusitis Kronis', Bagian Anatomi FK Universitas Udayana Denpasar.
96. Wardhani AK, Rahayu M, Wibawa D, et al, 2020,' Hubungan eosinopenia dan rasio neutrofil/limfosit dengan procalcitonin pada pasien sepsis', *Jurnal Kesehatan Andalas*, vol. 9(1):48-53.
97. Whang KT, Vath SD, Becker KL, et al, 2000,'Procalcitonin and Proinflammatory Cytokine Interactions in Sepsis', vol.14(1): 73-8.
98. Wirawati IAP, Aryati, Lestari AAW, 2016,'Peranan Immature/Total (I/T)Ratio, Jumlah Leukosit dan Procalcitonin dalam Menegakkan Diagnosis Sepsis' Universitas Airlangga.
99. Wormald PJ, Oates L, Hawke L, et al, 2004,' A comparative study of three methods of nasal irrigation', *Laryngoscope*, 114:2224-7.
100. Yamagishi S, Pawankar R, Nonaka M, et al, 2004,'Pathophysiologic mechanisms of chronic rhinosinusitis', *Immunol Allergy Clin N Am*;24:75-85.

Lampiran 1



KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
 UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
 KOMITE ETIK PENELITIAN KESEHATAN
 RSPTN UNIVERSITAS HASANUDDIN
 RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
 Sekretariat : Lantai 2 Gedung Laboratorium Terpadu
 JL.PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.



Contact Person: dr. Agussalim Bukhari, M.Med.PHD, Sp.GK, TELP. 081241850858, 0411 5780103, Fax : 0411-581431

REKOMENDASI PERSETUJUAN ETIK

Nomor : 736/UN4.6.4.5.31/ PP36/ 2020

Tanggal: 10 Nopember 2020

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

No Protokol	UH20090520		No Sponsor	
Peneliti Utama	dr. Muhammad Anwar		Protokol	
Judul Peneliti	Perbandingan Kadar Procalcitonin dan Eosinofil antara Pasien Rinosinusitis Kronis Disertai Polip dengan Tanpa Polip.			
No Versi Protokol	2	Tanggal Versi	6 Nopember 2020	
No Versi PSP	2	Tanggal Versi	6 Nopember 2020	
Tempat Penelitian	RSUP Dr. Wahidin Sudirohusodo dan RS Jejaring di Makassar			
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard Tanggal		Masa Berlaku	Frekuensi review lanjutan
Ketua Komisi Etik Penelitian Kesehatan FKUH	Nama Prof.Dr.dr. Suryani As'ad, M.Sc.,Sp.GK (K)		10 Nopember 2020 sampai 10 Nopember 2021	
Sekretaris Komisi Etik Penelitian Kesehatan FKUH	Nama dr. Agussalim Bukhari, M.Med.,Ph.D.,Sp.GK (K)		Tanda tangan	
			Tanda tangan	

Kewajiban Peneliti Utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
- 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
- Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
- Menyerahkan laporan akhir setelah Penelitian berakhir
- Melaporkan penyimpangan dari protokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan

LAMPIRAN 2

Daftar Sampel Penelitian (procalcitonin, eosinofil, neutrofil)

NO	KODE SAMPEL	Identitas (JK/Umur)	CT Scan (Skor Lund-Mackay)	SEL INFLAMASI		PROCALCITONIN (ng/mL)	KETERANGAN
				NEUTROFIL	EOSINOFIL		
1	MA001	P/ 40 thn	22	156	22	0.287467721	RSK POLIP
2	MA002	P/ 27 thn	16	270	33	0.261068993	
3	MA003	L/21 thn	10	269	17	0.257587026	
4	MA004	L/33 thn	20	1	1	0.233511466	
5	MA005	L/37 thn	20	416	188	0.291720251	
6	MA006	L/18 thn	16	302	72	0.271320496	
7	MA007	P/ 25 thn	20	475	102	0.225297099	
8	MA008	P/ 26 thn	8	1	1	0.345175153	
9	MA009	L/41 thn	21	176	1	0.267011427	
10	MA010	P/ 61 thn	21	193	59	0.332253163	
11	MA011	P/63 thn	10	34	4	0.348851908	
12	MA012	P/52 thn	18	178	245	0.26161418	
13	MA013	L/58 thn	15	52	8	0.362010941	
14	MA014	P/65 thn	16	216	92	0.364184571	
15	MA015	L/39 thn	15	74	44	0.346624976	
16	MA016	P/56 thn	8	44	7	0.336855608	
17	MA017	L/34 thn	11	1	1	0.333915302	
18	MA018	L/40 thn	12	120	8	0.305120517	
19	MA019	P/36 thn	10	35	1	0.202020281	
20	MA020	L/18 thn	10	315	78	0.189975506	
21	MA021	L/55 thn	11	86	54	0.305116668	
22	MA022	L/58 thn	11	268	237	0.309818375	
23	MA023	P/18 thn	22	260	145	0.184301801	
24	MA024	L/20 thn	16	403	156	0.140617729	
25	MA025	L/60 thn	2	2	1	0.299733612	RSK Tanpa Polip
26	MA026	L/27 thn	7	4	1	0.215532664	
27	MA027	L/28 thn	3	180	14	0.318951072	
28	MA028	P/48 thn	3	1	1	0.34	
29	MA029	P/20 thn	4	16	1	0.293229005	
30	MA030	L/30 thn	8	78	74	0.291473204	
31	MA031	P/50 thn	2	269	38	0.304279317	
32	MA032	P/31 thn	7	10	1	0.225382397	
33	MA033	P/35 thn	2	22	1	0.366962144	
34	MA034	L/37 thn	6	1	1	0.310132054	
35	MA035	L/31 thn	5	4	2	0.186943615	
36	MA036	L/24 thn	3	7	1	0.332600677	
37	MA037	L/39 thn	6	9	21	0.373195983	
38	MA038	L/29 thn	3	12	1	0.361448145	
39	MA039	L/25 thn	3	31	2	0.309114563	
40	MA040	P/37 thn	2	46	48	0.371170641	
41	MA041	L/24 thn	4	110	78	0.355787795	
42	MA042	L/33 thn	4	4	1	0.296680739	
43	MA043	P/53 thn	5	1	1	0.276742294	
44	MA044	P/20 thn	5	1	1	0.21017411	
45	MA045	L/24 thn	9	1	1	0.322432266	
46	MA046	L/25 thn	12	1	1	0.245793264	

LAMPIRAN 3

DOKUMENTASI PENELITIAN



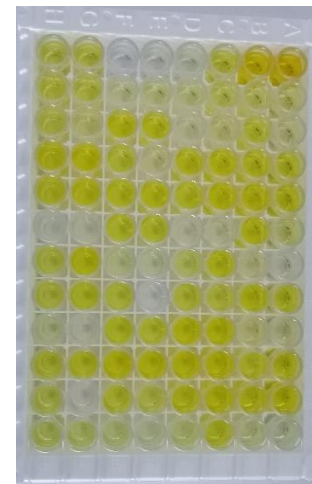
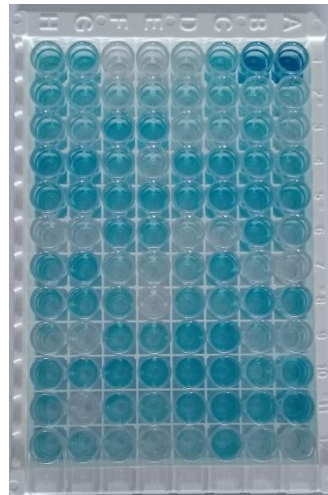
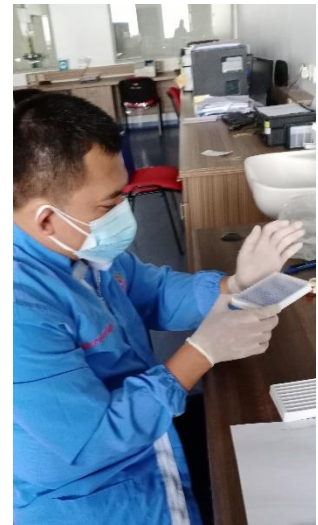
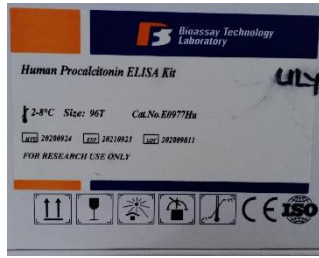
Alat dan Bahan Pengambilan Sampel



Teknik Pengambilan Sampel dengan Apusan/swab hidung



Pengerjaan sampel untuk hitung eosinofil dan neutrofil dengan teknik Pewarnaan *Papanicolau* di laboratorium Patologi Anatomi RSPTN.UNHAS



Pengerjaan uji *ELISA* kadar Procalcitonin di laboratorium Penelitian RSP UNHAS



**KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN INDONESIA
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
KOMITE ETIK PENELITIAN KESEHATAN**



Sekretariat : Lantai 3 Gedung Laboratorium Terpadu

Jl. PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10, Makassar. Telp.0411-5044671, Fax (0411) 586297.

Contact person **dr. Agussalim Bukhari, M.Med, Ph.D, Sp.GK** (HP. 081241850858), email: agussalimbukhari@yahoo.com.

Lampiran 4 :

FORMULIR PERSETUJUAN SETELAH PENJELASAN

Yang bertanda tangan dibawah ini :

Nama :
Umur :
Jenis Kelamin :
Alamat :
Pekerjaan :

Setelah mendapatkan penjelasan dari peneliti dengan ini saya menyatakan bersedia secara sukarela tanpa paksaan untuk mengikuti penelitian ini dan mentaati semua prosedur yang akan dilakukan pada penelitian ini.

Saya tahu bahwa saya berhak untuk bertanya apabila masih ada hal-hal yang saya tidak mengerti.

Saya mengerti bahwa prosedur pengambilan swab mukosa hidung terhadap diri saya dapat menyebabkan hal-hal yang merugikan, namun saya percaya bahwa akan dilakukan tindakan-tindakan kewaspadaan untuk mencegah hal-hal tersebut. Resiko yang mungkin terjadi saat pemeriksaan ini adalah rasa tidak nyaman.

Saya tahu bahwa saya berhak mendapat penanganan atau kompensasi biaya dari peneliti bila terjadi efek samping dari pemeriksaan yang dilakukan.

Saya juga berhak menolak untuk tidak ikut dalam penelitian ini tanpa kehilangan hak saya untuk mendapat pelayanan kesehatan dari dokter.

Makassar,

Nama Saksi

1. (.....)
Nama jelas/Tanda tangan

2. (.....)
Nama jelas/Tanda tangan

(.....)
Nama jelas/Tanda tangan

Peneliti Utama : **dr. Muhammad Anwar**

Jl.Nuri Baru No.89 Makassar

Telepon: 085 275 598 247

Dokter Penanggung jawab medis : **Prof.Dr.dr. Abdul Qadar Punagi, Sp.T.H.T.K.L(K)**

Komplek Mangasa Permai Makassar

Telepon: 081 242 09997

