

DAFTAR PUSTAKA

1. Global Burden of Disease Collaborative Network. Global Burden of Disease Study 2019 (GBD 2019). Seattle: Institute of Health Metrics and Evaluation (IHME); 2020.
2. Shaddox LM, Walker CB. Treating chronic periodontitis: current status, challenges, and future directions. *Clinical, Cosmetic and Investigational Dentistry*. 2010;2:79–91
3. Badan Penelitian dan Pengembangan Kesehatan (Balitbangkes). RISKESDAS 2017-2018. Jakarta: Kementerian Kesehatan Republik Indonesia; 2018. h. 207.
4. Heitz-Mayfield LJ, Schatzle M, Loe H, Bürgin W, Anerud A, Boysen H, et al. Clinical course of chronic periodontitis. II. Incidence, characteristics and time of occurrence of the initial periodontal lesion. *J Clin Periodontol* 2003;30(10):902–8. DOI: [10.1034/j.1600051X](https://doi.org/10.1034/j.1600051X).
5. Eberhard J, Jepsen S, Jervøe-Storm PM, Needleman I, Worthington HV. Full-mouth treatment modalities (within 24 hours) for chronic periodontitis in adults. *Cochrane Database Syst Rev*. 2015 Apr 17;(4):CD004622. DOI: [10.1002/14651858.CD004622](https://doi.org/10.1002/14651858.CD004622).
6. Rafiei M, Kiani F, Sayehmiri F, Sayehmiri K, Sheikhi A, Azodi MZ. Study of Pophyromonas gingivalis in periodontal diseases: A systematic review and meta-analysis. *Med J Islam Repub Iran*. 2017; 31: 62. DOI: [10.18869/mjiri.31.62](https://doi.org/10.18869/mjiri.31.62)
7. Mysak J, Podzimek S, Sommerova P, Lyuya-Mi Y, Bartova J, Janatova T, et al. Porphyromonas gingivalis: Major periodontopathic pathogen overview. *J Immunol Res*. 2014; 2014: 476068. DOI: [10.1155/2014/476068](https://doi.org/10.1155/2014/476068)
8. Elkadi OM, Madkour GG, Elmenoufy HS, El- Refai M. Evaluation of level of TNF- α in chronic periodontitis patients with gestational diabetes mellitus after phase i periodontal therapy. *Dent*. 2018; 8(4): 1-5. DOI: [10.4172/2161-1122.1000481](https://doi.org/10.4172/2161-1122.1000481)
9. Agidigbi TS, Kim C. Reactive oxygen species in osteoclast differentiation and possible pharmaceutical targets of ROS-mediated osteoclast diseases. *Int J Mol Sci*. 2019; 20(14): 3576. DOI: [10.3390/ijms20143576](https://doi.org/10.3390/ijms20143576)
10. Mescher, A. L. 2013. *Junqueira's Basic Histology 13th Edition*. United States: McGraw Hill Education.

11. Tang., J. Han., H. Meng, Y. Zhao, *et al.* 2016. Downregulation of RANKL and RANKL/Osteoprotegrin Ratio in Human Periodontal Ligament Cells During their Osteogenic Differentiation. *Journal of Periodontal Research*. 51: 125-132.
12. Hardhani, P.R., S.P. Lastianny, dan D. Herawati. 2014. Pengaruh Penambahan Platelet Rich Plasma Pada Bovine Porous Bone Mineral Terhadap Penyembuhan Jaringan Periodontal Pada Terapi Poket Infraboni. *Jurnal Kedokteran Gigi*. 5 (4) : 342-348.
13. Zulfa L, Mustaqimah DN. Terapi periodontal non-bedah Non-surgical periodontal therapy. *J Dentomaxillofacial Sci*. 2011;10(1):36.
14. Kiswaluyo. Perawatan Periodontitis pada Puskesmas Sumpangsari, Puskesmas Wuluhan dan RS Bondowoso. *stomatognathic (J K G Unej)*. 2013;10:115–20.
15. Greenstein G. Local Drug Delivery in the Treatment of Periodontal Diseases: Assessing the Clinical Significance of the Results. *J Periodontol*. 2006;77(4):565–78.
16. Setiawan A, Lastianny SP, Herawati D, Periodonsia PS, Pendidikan P, Gigi D, et al. Efektivitas Aplikasi Madu Murni Terhadap Penyembuhan Jaringan Periodontal Pada Perawatan Periodontitis Penderita Hipertensi. *j Ked Gi*. 2013;4(4):228–35.
17. Thahir H, Oktawati S, Ahmad H, Samad R, Feblina AR, Annisa A, Etriyani N, The Effectiveness of Natural VCO in Periodontal Tissue Regeneration. *Annals of R.S.C.B.*, ISSN: 1583-6258, Vol. 25, Issue 6, 2021: 4364 – 4375
18. Pulung ML, Yogaswara R, Sianipar FR, Potensi Antioksidan dan Antibakteri VCO dari Tanaman Kelapa asal Papua. *Chem. Prog*. Vol. 9. No. 2, November 2016 : 63-69
19. Thahir H, Djais AI, Nasir M, Feblina AR, Annisa A, Etriyani N, Achmad H,. VCO as a new concept for Periodontal Tissue Regeneration Via Expressions of TNF- α and TGF- β 1. *Hindawi International Journal of Biomaterials* Vol 2022 :1–8.
20. Hayatullina Z, Muhammad N, Mohamed N, Soelaiman IN, VCO Supplementation Prevent Bone Loss in Osteoporosis Rat Model. *Hindawi [Evid Based Complement Alternat Med](#)*. 2012; 2012: 237236
21. Malik MMA, Othman F, Hussan F, Shuid AN, Saad QM, Combined VCO and Tocotrienol Rich Fraction Protects Against Bone Loss in Osteoporotic Rat Model. *Veterinary World*, 12(12): 2052-2060
22. Newman MG, Takei HH. Newman and Carranza ' s Clinical Periodontology THIRTEENTH EDITION.
23. Reddy S. Essentials of and Periodontics. 2011. 492 .
24. Manson, J. D., Eley B. Periodontics. 5th ed. United Kingdom : Elsevier.; 2004. P. 154 – 8.
25. Campbell, N. A., Reece, J. B., Mitchell LG. Biology Oral . 5th ed. vol.3. Jakarta: Erlangga. p. 81-82. Jakarta : erlangga. 2004;3:81–2.

26. Hajishengallis G. Immunomicrobial pathogenesis of periodontitis: Keystones, pathobionts, and host response. *Trends Immunol* [Internet]. 2014;35(1):3–11. Available from: <http://dx.doi.org/10.1016/j.it.2013.09.001>
27. Wolf HF, Hassel TM. *Color Atlas Of Dental Hygiene*. Thieme, Germany, 2006.
28. Mitchell RN, Kumar V, Abbas AK FN. *Buku Saku Dasar Patologis Penyakit Robbins & Cotran*. 7th ed. Jakarta; 2006. 57 p.
29. Velnar T, Bailey T, Smrkolj V. The wound healing process: An overview of the cellular and molecular mechanisms. *J Int Med Res*. 2009;37(5):1528–42.
30. De Carlo, A. J. L., Boddden MK. Activation and Novel Processing Matrix Metalloproteinase By a Thiol-Proteinase from The Oral Anaerob Porphyromonas Gingivalis. *J Dent Res*. 2007;76(6):1260–70.
31. Kapinas, K., dan A.M. Delany. 2011. MicroRNA Biogenesis and Regulation of Bone Remodeling. *Arthritis Research and Therapy*. 13(220) : 1-11.
32. Cekici, A., A. Kantarci, H. Hasturk, dan T. E. V. Dyke. 2014. Inflammatory and Immune Pathways in the pathogenesis of Periodontal Disease. *HHS Public Acces*. 64(1): 57-80.
33. Elkadi, O. M., G.G, Madkour, H.S. Elmenoufy, dan M.E. Refai. 2018. Evaluation of Level of TNF- alfa in Chronic Periodontitis Patients with Gestational Diabetes Mellitus After Phase I Periodontal Therapy. *Egyptian Dental Journal*. 64 (1) : 229-238.
34. Shrestha, S., M. Neupane, S. Sharma, dan M. Lamsal. 2017. Assessment of Tumor Necrosis Factor-alpha in Gingivitis and Periodontitis Patients. *International Journal of Dental Research*. 5(2) : 108-111.
35. Alwan, A. H. 2015. Determination of Interleukin-1beta (IL-1b) dan Interleukin-6 (IL-6) in Gingival Crevicular Fluid in Patients With Chronic Periodontitis. *IOSR Journal of Dental and Medicine Sciences*. 14(11) : 81-90.
36. Cochran, D.L. 2008. Inflammation and Bone Loss in Periodontal Disease. *Journal Periodontology*. 79 (8) : 1569-1576.
37. RC P. Efek pemberian ekstrak kulit manggis (*Garcinia mangostana* L.) Terhadap Jumlah sel fibroblas gingiva pada *Rattus Norvegicus* Jantan dengan Periodontitis. *Maj Ked Gi*. 21(1):33–8.
38. Peniche-Palma DC, Carrillo-Avila BA, Sauri-Esquivel EA, Acosta-Viana K, Esparza-Villalpando V, Pozos-Guillen A, et al. Levels of Myeloperoxidase and Metalloproteinase- 9 in Gingival Crevicular Fluid from Diabetic Subjects with and without Stage 2, Grade B Periodontitis. *Biomed Res Int*. 2019;2019.

39. Andriani I, Chairunnisa FA. Periodontitis Kronis dan Penatalaksanaan Kasus dengan Kuretase. *Insisiva Dent J Maj Kedokt Gigi Insisiva*. 2019;8(1):25–30.
40. Susilawati IDA. Periodontal infection is a “silent killer.” *Stomatognathic (JKG Unej)*. 2011;8:21–6.
41. Haryanto N. Perbedaan Hasil Perawatan Poket Periodontal Antara Kuretase dan Excisional New Attachment Procedure (ENAP). Yogyakarta: Universitas Gadjah mada; 2004.
42. Sato S, Fonseca MJV, Del Ciampo JO, Jabor JR, Pedrazzi V. Metronidazole-containing gel for the treatment of periodontitis: An in vivo evaluation. *Braz Oral Res*. 2008;22(2):145–50.
43. Jorgensen MG. The Ins And Outs Of Periodontal Antimicrobial Therapy. *Oral Heal J*. 2002;92.10:27–41.
44. Collins, F. RV. Periodontal Treatment : The Delivery And Role Of Locally Applied Therapeutics. *Dent Econ J*. 2006;3:4.
45. Williams RC. Medical Progress : Periodontal Disease. *N Engl J Med*. 2000;322.6:372–82.
46. Norkiewicz DS. The Use Of Chemotherapeutic Agents In Localized Periodontal Pockets. *Mil Med J*. 2001;166:940.
47. Zulfa L, Mustaqimah DN. Terapi periodontal non-bedah Non-surgical periodontal therapy. *J Dentomaxillofacial Sci*. 2011;10(1):36.
48. Braun A, Dehn C, Krause F JSS. clinical effects of adjunctive antimicrobial photodynamic therapy in periodontal treatment: a randomized clinical trial. *J Clin Periodontol*. 2008;35:877–84.
49. Jannah Tamara AH, Rochmah YS, Mujayanto R. Pengaruh Aplikasi VCO Terhadap Peningkatan Jumlah Fibroblas Pada Luka Pasca Pencabutan Gigi Pada Rattus Novergicus. *ODONTO Dent J*. 2015;1(2):29.
50. Sutarmi., Rozaline. dan H. Taklukkan Penyakit Dengan VCO. 2nd ed. Swadaya P, editor. Jakarta; 2005. 33–47 p.
51. Marina AM, Man YBC. VCO : emerging functional food oil. *Trends Food Sci Technol* [Internet]. 2009;20(10):481–7. Available from: <http://dx.doi.org/10.1016/j.tifs.2009.06.003>
52. Raghavendra SN, Raghavarao KSMS. Aqueous Extraction and Enzymatic Destabilization of Coconut Milk Emulsions. *J Am Oil Chem Soc* [Internet]. 2011;88(4):481–7. Available from: <https://doi.org/10.1007/s11746-010-1695-6>
53. Avenue NY. Food Fats and Oils Institute of Shortening and Edible Oils. 1999. p. 1–10.

54. Rajamohan KGNT, Nevin KG, Rajamohan T. Effect of topical application of VCO on skin components and antioxidant status during dermal wound healing in young rats. *Skin Pharmacol Physiol*. 2010;23(6):290–7.
55. Silalahi J, Yuandani Y, Meliala DIPB, Margata L SD. The activity of hydrolyzed VCO to increase proliferation and cyclooxygenase-2 expression towards on nih 3t3 cell line in wound healing process. *Open Access Maced J Med Sci*. 2019;7(19).
56. Man, Y.B.C., and Manaf M. Medium-Chain Triacylglycerols. In: Shahidi. *Co-Products. N and SL and their*, editor. USA; 2006. 31–32 p.
57. Nur Hapsari TW. PEMBUATAN VCO (VCO) DENGAN METODE SENTRIFUGASI.
58. Ripari F, Filippone F, Zumbo G, Covello F, Zara F, Voza I. The role of coconut oil in treating patients affected by plaque-induced gingivitis: A pilot study. *Eur J Dent*. 2020;14(4):558–65.
59. Varma SR, Sivaprakasam TO, Arumugam I, Dilip N, Raghuraman M, Pavan KB, et al. In vitro anti-inflammatory and skin protective properties of VCO. *J Tradit Complement Med*. 2019;9(1):5–14.
60. Dewi RS, Gita F, Bahtiar B, Kasim HB. Effect of 12.5% VCO on porphyromonas gingivalis and treponema denticola bacterial colonization. *Int J Appl Pharm*. 2017;9(Special Issue 2):32–5.
61. Aqilah Haron U, Abllah Z, Mardia Mohamad Nasir NA. The Comparative Antimicrobial Effect of Activated VCO (AVCO) and VCO (VCO) against Dental Caries-Related Pathogens. 2018;(March).
62. Gayatri PA, Krisnawati, Sahlan M, Pratami DK, Widayati R. Stability of zoledronate gel emulsion in VCO. *Int J Appl Pharm*. 2019;11(September):201–6.
63. Rahamat SFB. VCO , Coconut Milk , And Coconut Water Potential In The Remineralization Of Tooth Enamel Surface. 2018;(September).
64. Dafriani P, Nur SA, Morika HD, Marlinda R. VCO (VCO) Accelerated Wound Healing Process in Diabetes mellitus (DM) Patients With Diabetic Ulcer in dr . Rasidin. *J Aisyah J Ilmu Kesehat*. 2020;5(2):221–4.
65. Silalahi J, Yuandani Y, Meliala DIPB, Margata L, Satria D. The activity of hydrolyzed VCO to increase proliferation and cyclooxygenase-2 expression towards on nih 3t3 cell line in wound healing process. *Open Access Maced J Med Sci*. 2019;7(19):3164–8.
66. Cell NIH, Ika D, Meliala P, Silalahi J, Yuandani Y, Margata L, et al. The Role of Coconut Oil to Increase Expression of MMP-9 , PDGF-. 2019;7(22):3733–6.
67. Abujazia MA, Muhammad N, Shuid AN, Soelaiman IN. The Effects of Virgin Coconut Oil On Bone Oxidative Status in Ovariectomised Rat. 2012;
68. Etriyani N, Hasanuddin T, Samad R. Efektivitas Gel Virgin Coconut Oil (VCO) terhadap kepadatan kolagen pada rattus norvegicus yang diinduksi periodontitis, 2021:
69. Feblina AR, Hasanuddin T, Rieuwpassa I. Efektivitas Gel Virgin Coconut Oil (VCO) terhadap jumlah makrofag pada rattus norvegicus, 2021;
70. Annisa A, Hasanuddin T, Efektivitas Gel Virgin Coconut Oil (VCO) terhadap jumlah fibroblas pada rattus norvegicus, 2021; 60



REKOMENDASI PERSETUJUAN ETIK

Nomor: 0075/PL.09/KEPK FKG-RSGM UNHAS/2022

Tanggal: 31 Mei 2022

Dengan ini menyatakan bahwa protokol dan dokumen yang berhubungan dengan protokol berikut ini telah mendapatkan persetujuan etik:



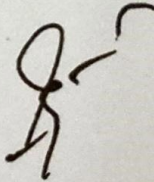
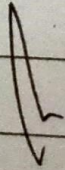
No. Protokol	UH 17120659	No Protokol Sponsor	
Peneliti Utama	drg. Rachmi Bachtiar	Sponsor	Pribadi
Judul Peneliti	Efektifitas Gel Virgin Coconut Oil (VCO) terhadap Jumlah Osteoklas pada Rattus Norgicus yang Diinduksi Bakteri Porpyromonas Gingivalis		
No. Versi Protokol	1	Tanggal Versi	23 Mei 2022
No. Versi Protokol		Tanggal Versi	
Tempat Penelitian	1. Laboratorium Farmakognosi Fitokimia Fakultas Farmasi Universitas Muslim Indonesia, 2. Laboratorium Praktikum Fakultas Farmasi UMI, 3. Laboratorium Mikrobiologi Fakultas Kedokteran Universitas Hasanuddin, 4. Laboratorium Patologi-Anatomi Fakultas Kedokteran Universitas Brawijaya.		
Dokumen Lain			
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard	Masa Berlaku 31 Mei 2022- 31 Mei 2023	Frekuensi Review Lanjutan
Ketua Komisi Etik Penelitian	Nama: Dr. drg. Marhamah, M.Kes	Tanda Tangan 	Tanggal
Sekretaris Komisi Etik Penelitian	Nama: drg. Muhammad Ikbal, Sp.Pros	Tanda Tangan 	Tanggal


Kewajiban peneliti utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum diimplementasikan
- Menyerahkan laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan lapor 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*)

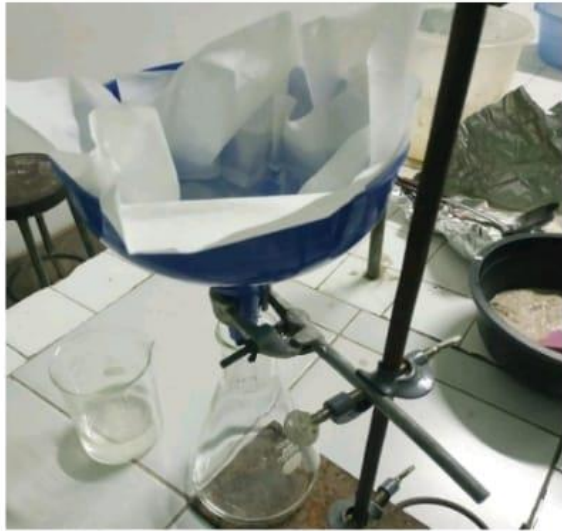
LEMBAR PERBAIKAN UJIAN SEMINAR HASIL PPDGS PERIODONSIA

NAMA : Rachmi Bachtiar
NIM : J035201004
TANGGAL SEMINAR : 08 Oktober 2022
JUDUL : EFEKTIVITAS GEL *VIRGIN COCONUT OIL (VCO)* TERHADAP JUMLAH OSTEOKLAS PADA *RATTUS NORVEGICUS* YANG DIINDUKSI BAKTERI *PORPHYROMONAS GINGIVALIS*

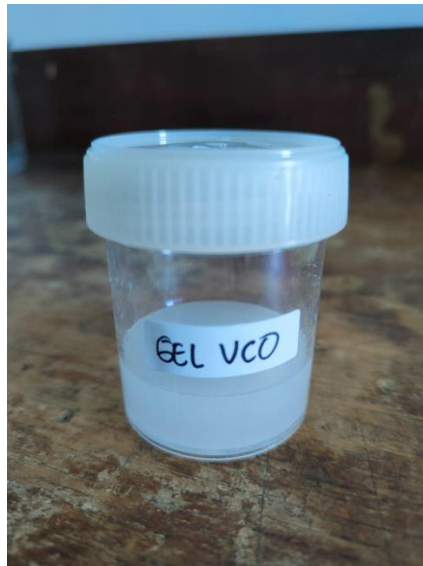
NO	NAMA DOSEN PENGUJI/PEMBIMBING	KOREKSI TESIS	PARAF
1.	Dr. Asdar Gani, drg, M.Kes	1. Mengapa pada penelitian yang dilakukan menggunakan gel metronidazole sebagai kelompok kontrol positif? Jawaban : gel metronidazole diketahui sebagai salah satu antibiotik yang paling sering digunakan untuk perawatan periodontal secara lokal karena memiliki kemampuan yang baik untuk mengatasi bakteri anaerob dengan sedikit efek samping 2. Saran : Pada bab pembahasan menambahkan fungsi <i>virgin coconut oil</i> sebagai antibiotik Jawaban : Telah ditambahkan peran <i>virgin coconut oil</i> sebagai antibiotik pada bab pembahasan hal 52	
2.	Dian Setiawati, drg, Sp. Perio(K)	Disarankan untuk melakukan perbaikan pada penulisan-penulisan yang masih salah Jawaban : telah dilakukan perbaikan pada penulisan-penulisan yang masih salah	
3.	Prof. Dr. Sri Oktawati, drg, Sp. Perio(K)	1. Tambahkan gambar histologi dari osteoklas Jawaban : gambar hisologi osteoklas telah ditambahkan pada halaman 23 2. Pada kerangka teori tambahkan gel vco sebagai antibiotic, dan berikan warna lain pada garis menghambat Jawaban : telah ditambahkan kotak dibawah gel vco sebagai antibiotik dan garis menghambat telah diubah warnanya 3. Pada kerangka konsep, gel metronidazole diletakkan dibawah terapi periodontal Jawaban : telah dilakukan revisi dengan meletakkan gel metronidazole di bawah terapi periodontal	
4.	Dr. Arni Irawaty Djais, drg, Sp.Perio(K)	Perbaiki Latar belakang, serta penulisan-penulisan yang masih salah	

		Jawaban : Latar belakang dan penulisan-penulisan yang salah telah diperbaiki.	
5.	Drg. Surijana Mappangara, M. Kes, Sp. Perio (K)	Buat perbaikan berdasarkan rekomendasi dosen-dosen penguji dan pembimbing.	

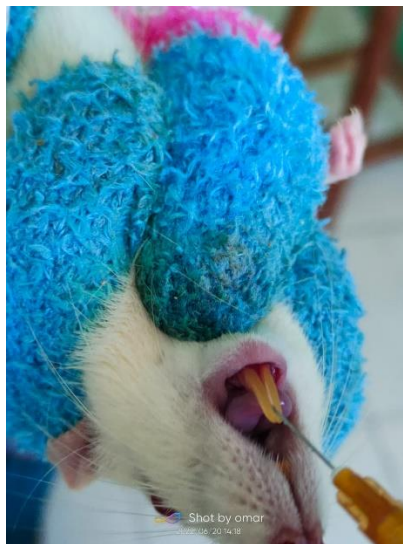














9 in column 23. Text: in_ID
 subcommand of the SET command has an invalid parameter. It could
 d to a valid backend locale.

'C:\Users\Panasonic\Documents\OCN RAHMI.sav'

D.
 ABLES=OSTEOCLAST BY KELOMPOK
 OT
 S DESCRIPTIVES
 95
 LISTWISE

C:\Users\Panasonic\Documents\OCS RAHMI.sav

Case Processing Summary

KELOMPOK	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
SRP (7)	4	100,0%	0	0,0%	4	100,0%
METRO (7)	4	100,0%	0	0,0%	4	100,0%
VCO (7)	4	100,0%	0	0,0%	4	100,0%
SRP (14)	4	100,0%	0	0,0%	4	100,0%
METRO (14)	4	100,0%	0	0,0%	4	100,0%
VCO (14)	4	100,0%	0	0,0%	4	100,0%

Descriptives

KELOMPOK	Statistic	Std. Error
SRP (7) Mean	5,00	1,155
95% Confidence Interval for Mean	Lower Bound	,03
	Upper Bound	9,97
5% Trimmed Mean	.	
Median	5,00	

	Variance		
	Std. Deviation	4,000	
	Minimum	2,000	
	Maximum	3	
	Range	7	
	Interquartile Range	4	
	Skewness	.	
	Kurtosis	,000	1,225
METRO (7)	Mean	7,33	,882
	95% Confidence Interval for Mean	Lower Bound	3,54
		Upper Bound	11,13
	5% Trimmed Mean	.	
	Median	7,00	
	Variance	2,333	
	Std. Deviation	1,528	
	Minimum	6	
	Maximum	9	
	Range	3	
	Interquartile Range	.	
	Skewness	,935	1,225
	Kurtosis	.	
VCO (7)	Mean	8,67	,882
	95% Confidence Interval for Mean	Lower Bound	4,87
		Upper Bound	12,46
	5% Trimmed Mean	.	
	Median	9,00	
	Variance	2,333	
	Std. Deviation	1,528	
	Minimum	7	
	Maximum	10	
	Range	3	
	Interquartile Range	-,935	1,225
	Skewness	.	
	Kurtosis	6,67	,667
SRP (14)	Mean		

	95% Confidence Interval for Mean	Lower Bound	3,80	
		Upper Bound	9,54	
	5% Trimmed Mean			
	Median			
	Variance		6,00	
	Std. Deviation		1,333	
	Minimum		1,155	
	Maximum		6	
	Range		8	
	Interquartile Range		2	
	Skewness			
	Kurtosis		1,732	1,225
	Mean			
METRO (14)	95% Confidence Interval for Mean	Lower Bound	9,00	1,155
		Upper Bound	4,03	
	5% Trimmed Mean		13,97	
	Median			
	Variance		9,00	
	Std. Deviation		4,000	
	Minimum		2,000	
	Maximum		7	
	Range		11	
	Interquartile Range		4	
	Skewness		,000	1,225
	Kurtosis			
VCO (14)	Mean		11,67	,882
	95% Confidence Interval for Mean	Lower Bound	7,87	
		Upper Bound	15,46	
	5% Trimmed Mean			
	Median		12,00	
	Variance		2,333	
	Std. Deviation		1,528	
	Minimum		10	
	Maximum		13	
	Range		3	

Interquartile Range		
Skewness		
Kurtosis	-,935	1,225

Tests of Normality

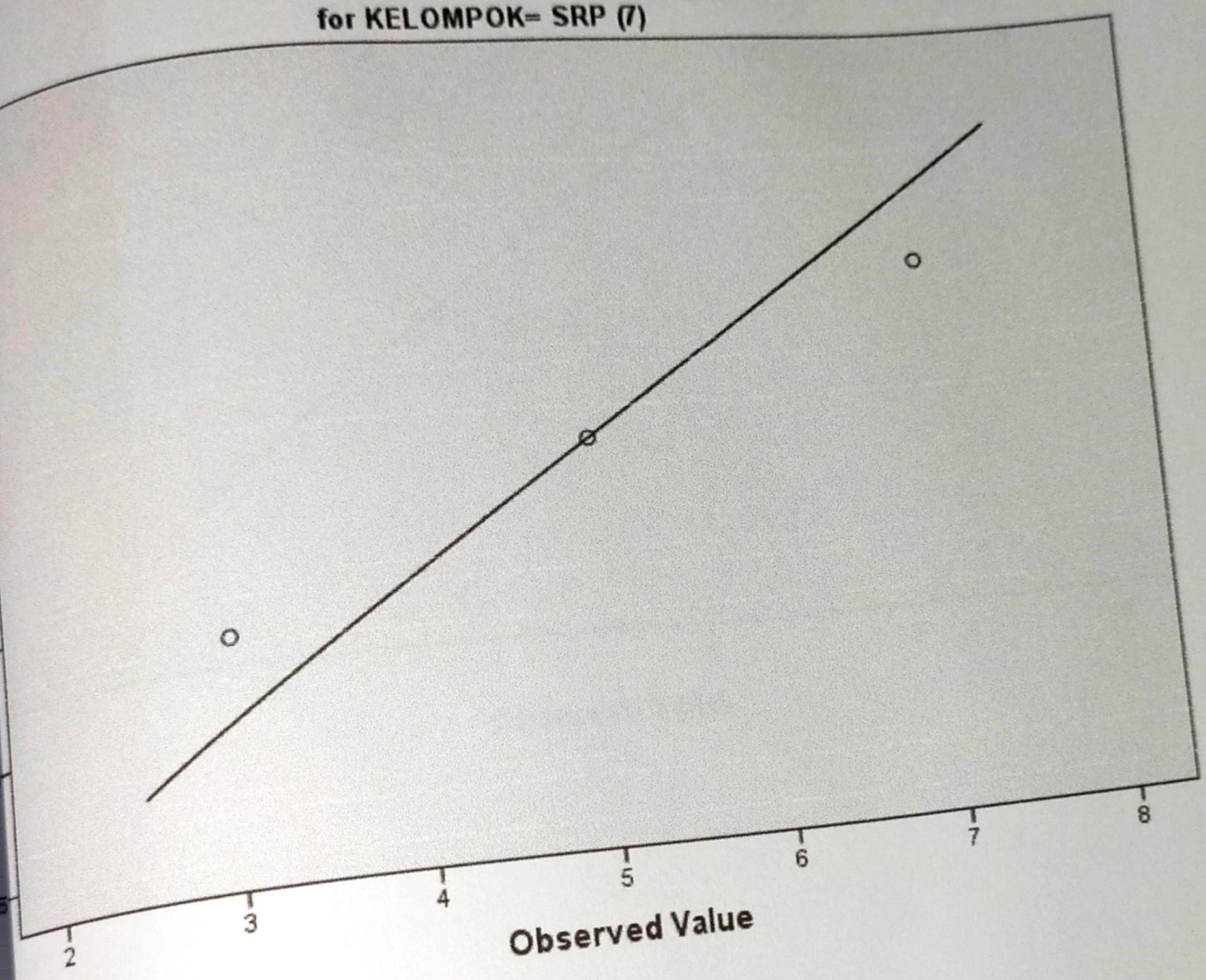
KELOMPOK	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
SRP (7)	,175	4	.	1,000	4	1,000
METRO (7)	,253	4	.	,964	4	,637
VCO (7)	,253	4	.	,964	4	,637
SRP (14)	,385	4	.	,750	4	,000
METRO (14)	,175	4	.	1,000	4	1,000
VCO (14)	,253	4	.	,964	4	,637

Continuity Correction

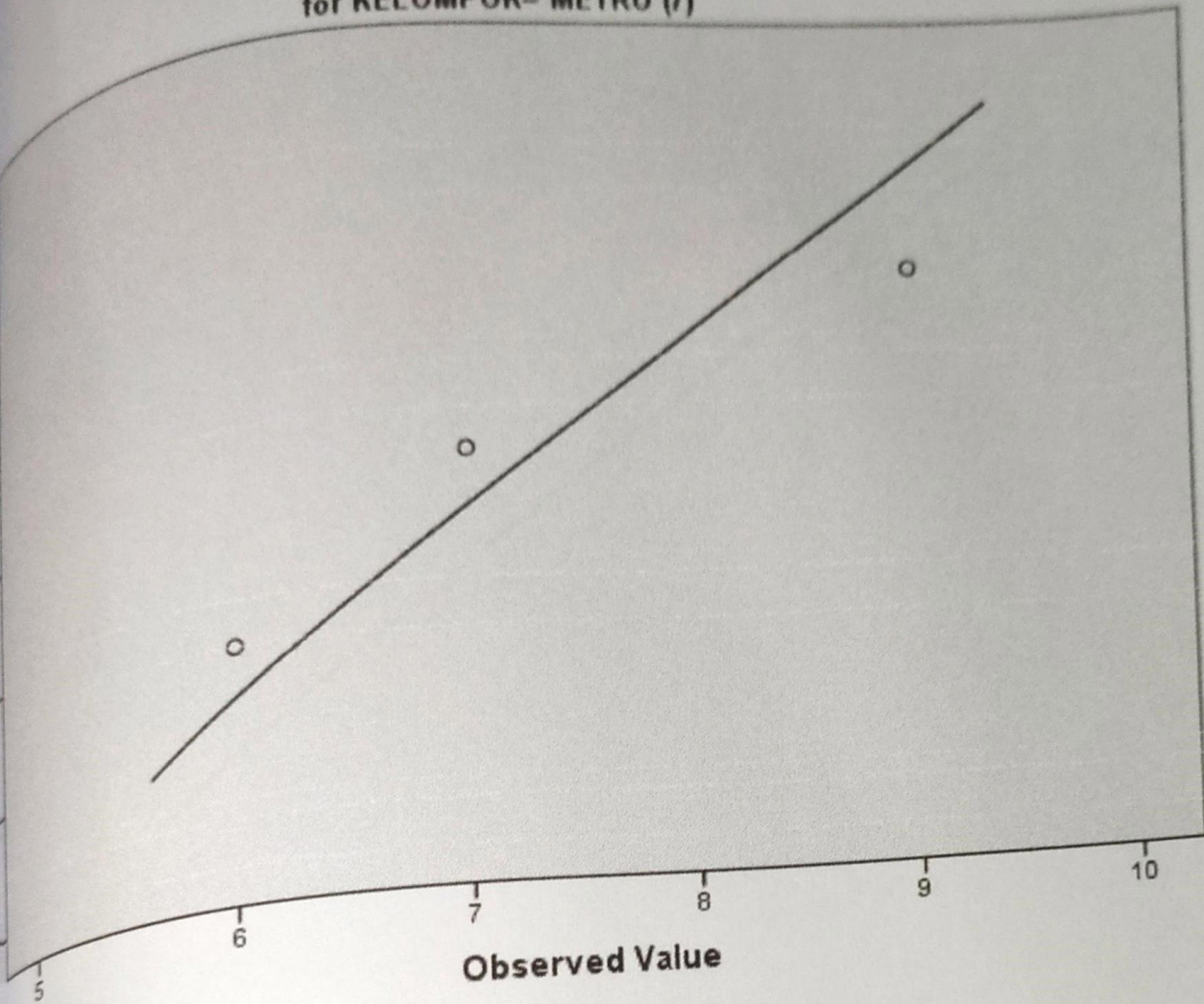
AST

Q Plots

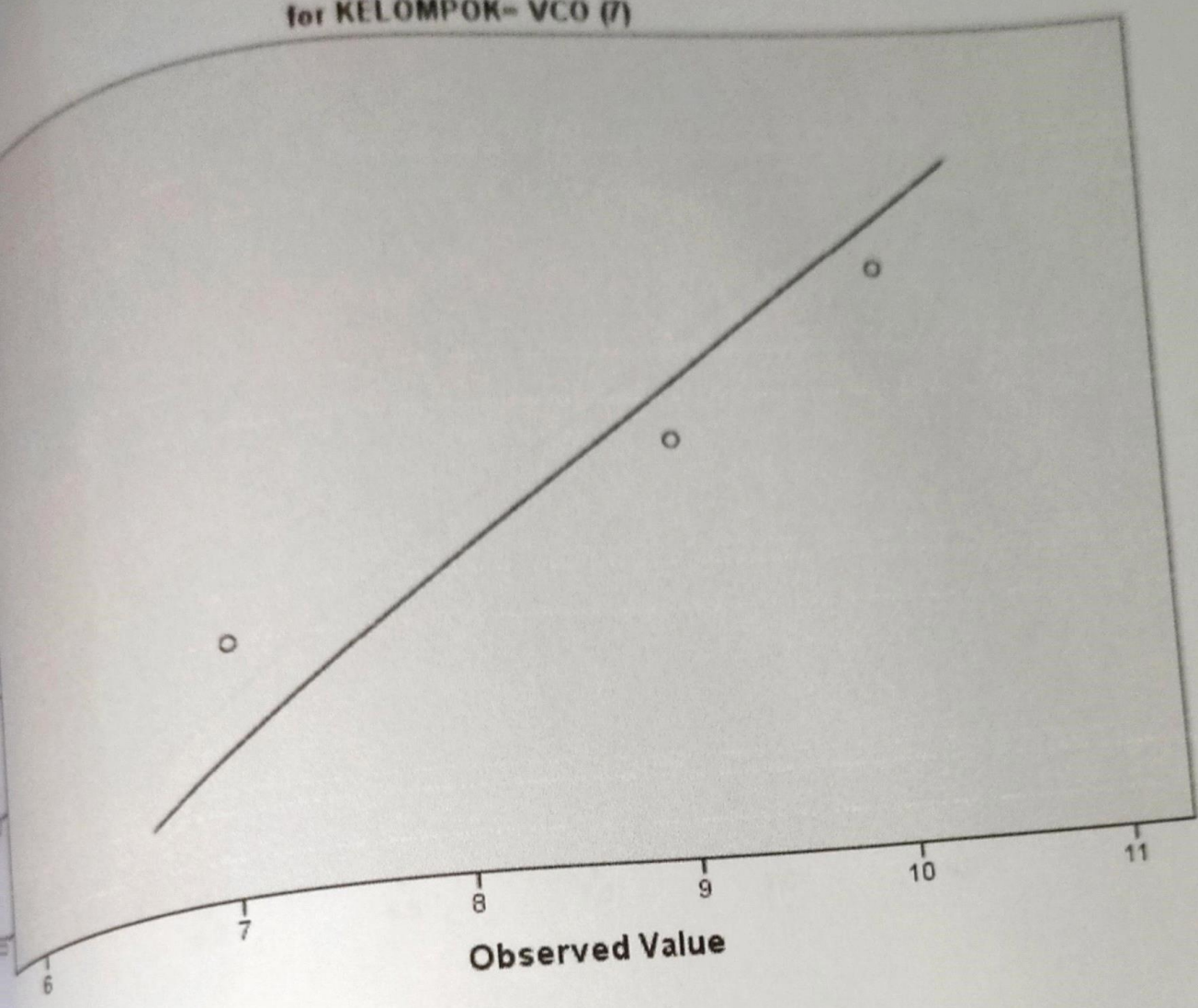
Normal Q-Q Plot Of OSTEOCLAST
for KELOMPOK= SRP (7)



Normal Q-Q Plot Of OSTEOCLAST
for KELOMPOK- METRO (7)

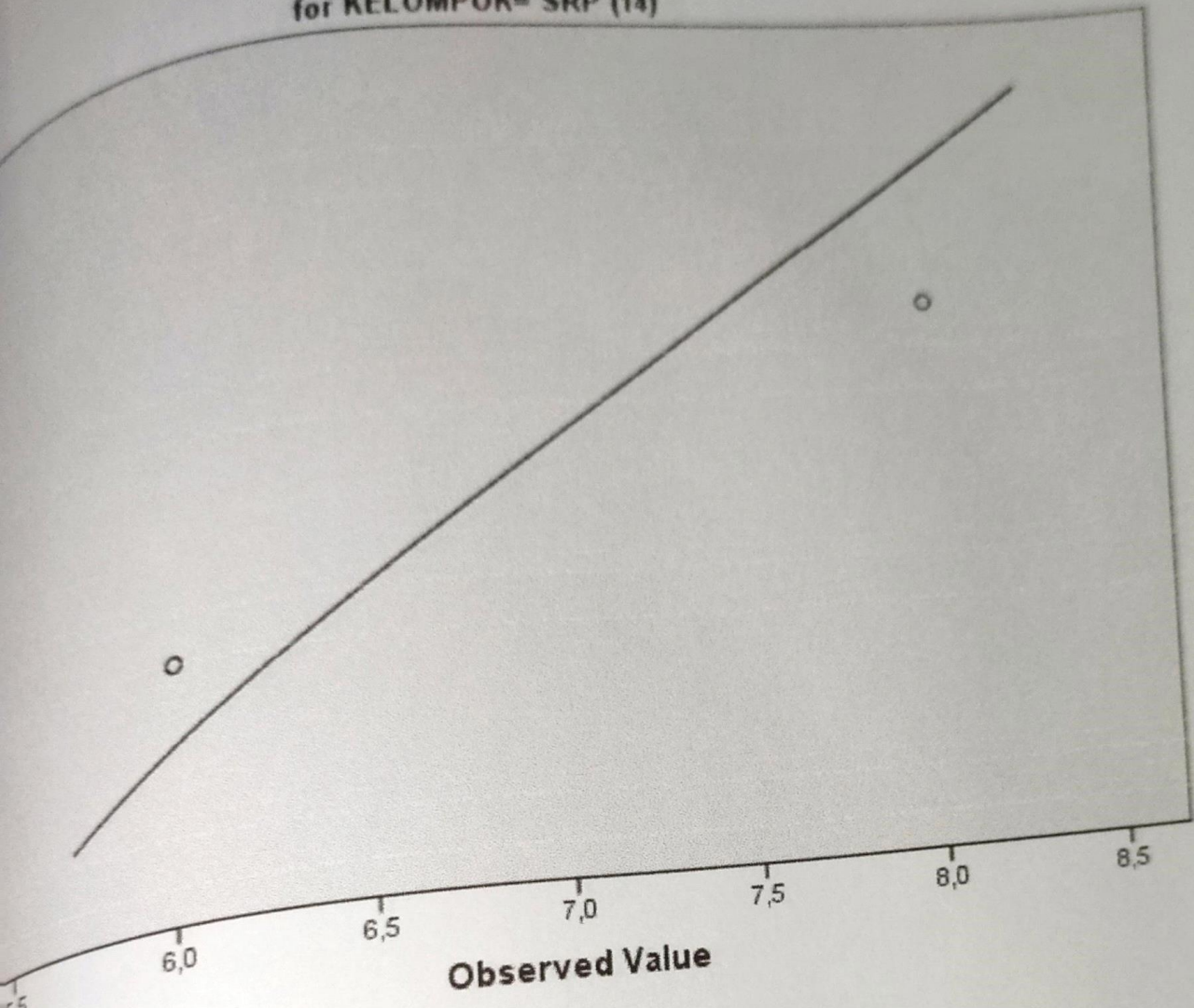


Normal Q-Q Plot Of OSTEOCLAST
for KELOMPOK- VCO (7)

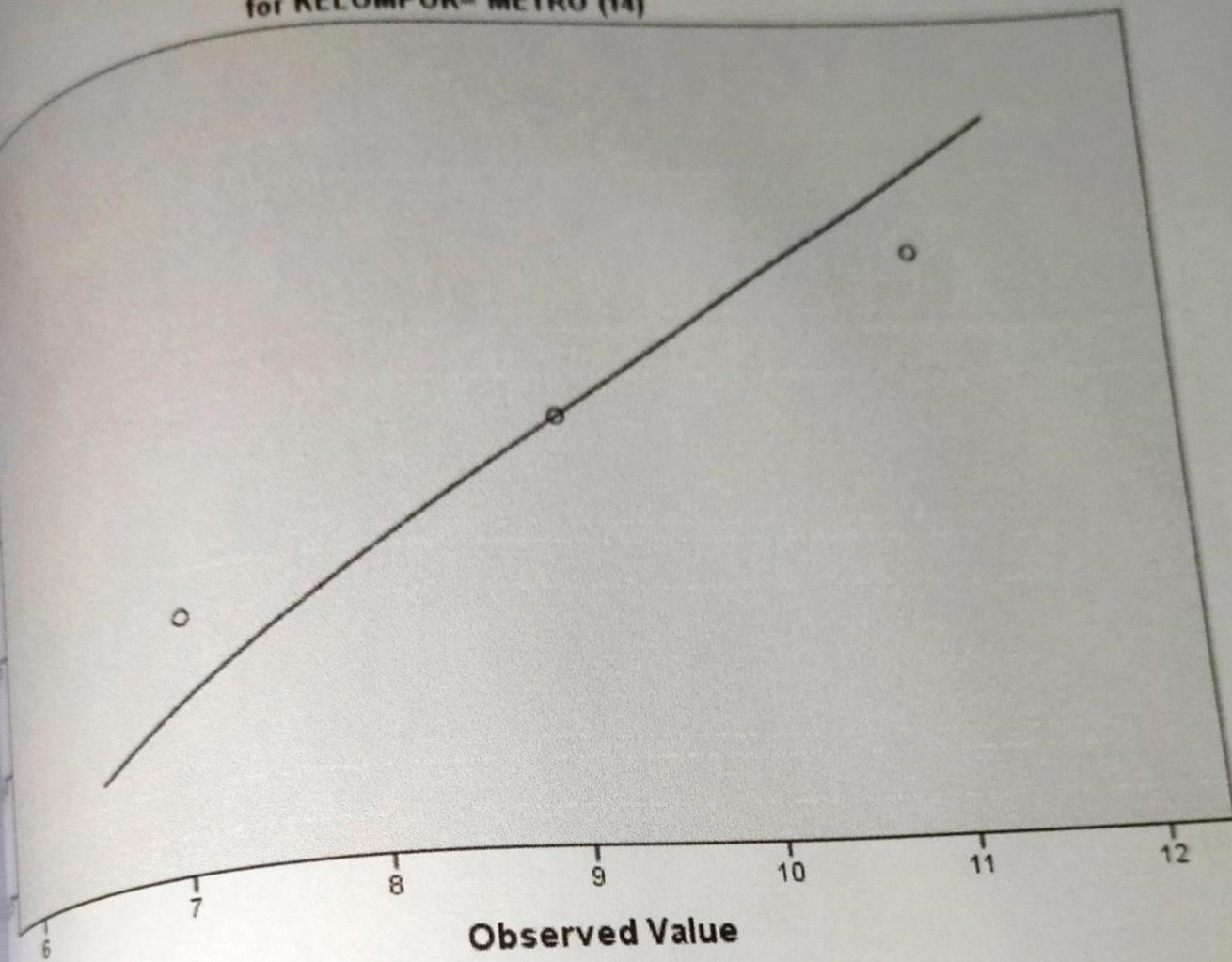


Normal Q-Q Plot Of OSTEOCLAST

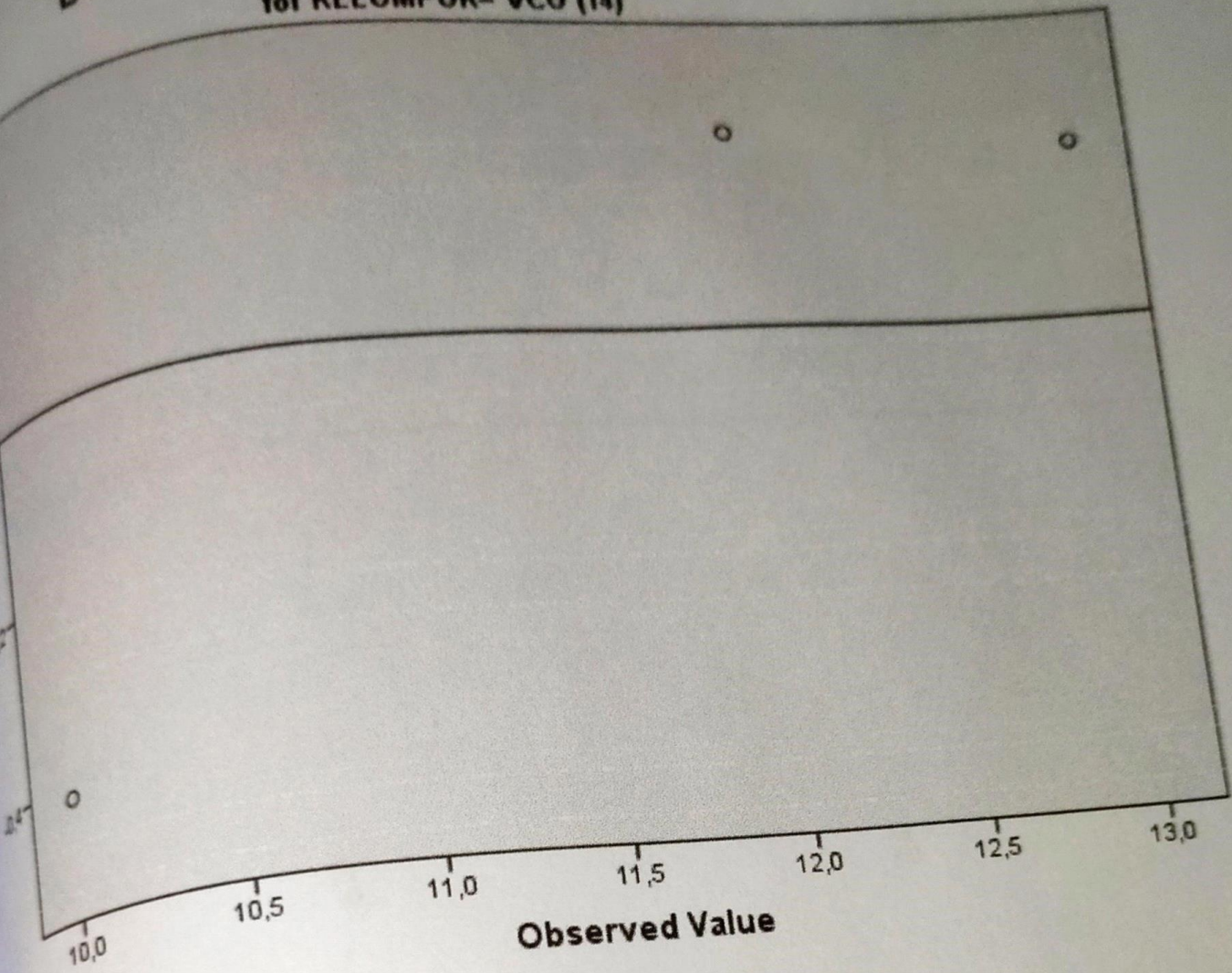
for KELOMPOK= SRP (14)

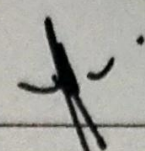


Normal Q-Q Plot Of OSTEOCLAST
for KELOMPOK= METRO (14)

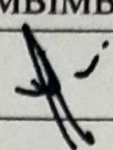
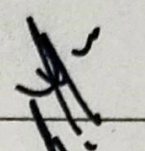
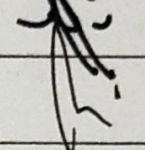
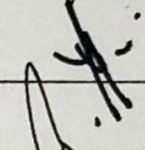
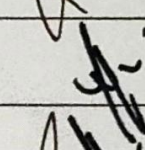
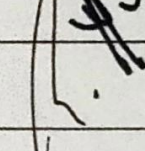
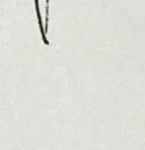
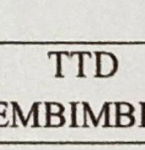
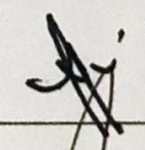


Detrended Normal Q-Q Plot of OSTEOCLASIN
for KELOMPOK= VCO (14)

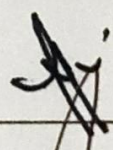
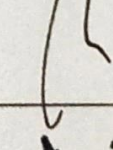
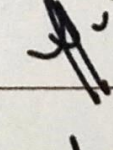


2.	25 Feb 2022	ACC Judul Penelitian		SM 
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KEGIATAN BIMBINGAN PENELITIAN

NO	TGL	KEGIATAN	KETERANGAN	TTD PEMBIMBING
1	29 Feb 2022	Diskusi Proposal Penelitian secara Garis Besar		SM 
2	3 Maret 2022	Diskusi Judul Penelitian, BAB 1, BAB 2 Tinjauan Pustaka dan BAB 3 Metodologi Penelitian		SM 
3	7 Maret 2022	Seminar Proposal		SM 
4	7 Maret 2022	Seminar Proposal		AI 
5	3 Okt 2022	Diskusi Hasil Penelitian		SM 
6	4 Okt 2022	Diskusi Hasil Penelitian		AI 
7	4 Okt 2022	Diskusi hasil penelitian dan Bab Metodologi		SM 
8	6 Okt 2022	Seminar Hasil Tesis		SM 
9	6 Okt 2022	Seminar Hasil Tesis		AI 

KEGIATAN BIMBINGAN PERBAIKAN KARYA TULIS ILMIAH

NO	TGL	KEGIATAN	KETERANGAN	TTD PEMBIMBING
1	11 Maret 2022	Diskusi Perbaikan Proposal Penelitian setelah seminar Proposal		SM 
2	21 Maret 2022	Diskusi Perbaikan Proposal Penelitian setelah seminar Proposal		AI 
3	30 Maret 2022	Diskusi Perbaikan Proposal Penelitian setelah seminar Proposal		SM 
4	10 Okt 2022	Diskusi Perbaikan Bab V setelah seminar hasil penelitian		SM 