

DAFTAR PUSTAKA

1. Baumann L. Dry skin. In: *Cosmetic Dermatology. Principles and Practise*. Mcn Graw Hill: New York. 2002: 29-32.
2. Kapoor S, Saraf S. Formulation and Evaluation of Moisturizer Containing Herbal Extracts for the Management of Dry Skin. *Pharmacognosy* [Internet]. 2010 [cited 2014 Dec 2]; 2(11): 409. Available from: ScienceDirect
3. Lodén M. Biophysical Methods Of Providing Objective Documentation Of The Effects Of Moisturizing Creams. *Skin Research and Technology* [Internet]. 1995 [cited 2014 Dec 2]; 1(3): 101-108. Available from: Wiley Blackwell (Blackwell Publishing)
4. Flynn TC, Petros J, Clark RE. Dry Skin and Moisturizer. *Clinics in Dermatology* [Internet]. 2001 [cited 2014 Dec 2]; 19(4): 387. Available from: ScienceDirect
5. Lazar AP, Lazar P. Dry Skin, Water and Lubrication. *Cosmetics Cosm Surg Dermatol* [Internet]. 2001 [cited 2014 Dec 2]; 9(1): 45. Available from: NCBI
6. Pohan SS. Pemakaian Pelembab secara rasional. Dalam: Makalah simposium kosmetik tetap cantik dan menarik menjelang tahun 2000. Surabaya: Prakongres IX PERDOSKI, 1999: 10-18

7. Taieb C, Fabre P, et al. Dry Skin: An Epidemiologic Approach. American Academy of Dermatology [Internet]. 2008 [cited 2014 Dec 2]: 58(2): 1212. Available from: ScienceDirect
8. Nalini Kaul, PhD, Winnipeg, MB, Canada; Elsie Kohoot, Hill-Top Research, Winnipeg, MB, Canada. Skin Moisturizers: Therapeutic Potent and Preventive Maintenance of Dry Skin. American Academy of Dermatology [Internet]. 2008 [cited 2014 Dec 4]: 58(2): 615. Available From: ScienceDirect
9. Noor NM, Aziz AA, Sarmidi MR, Aziz R. The Effect of Virgin Coconut Oil Loaded Solid Lipid Particles (VCO-SLPs) on Skin Hydration and Skin Elasticity. Jurnal Teknologi (Sciences & Engineering) [Internet]. 2013 [cited 2014 Dec 6]: 62(1): 39–43. Available from: Jurnalteknologi
10. Reynolds T, Dweck AC. Aloe Vera Leaf Gel: A Review Update. Ethnopharmacology [Internet]. 1999 [cited 2014 Dec 4]: 68(1-3): 3. Available from: Elsevier
11. Orafidiya LO, Agbani EO, Oyedele AO, Babalola OO, Onayemi O, Alyedun FF. The Effect Of Aloe Vera Gel On The Anti-Acne Properties Of The Essential Oil Of Ocimum Gratissimum Linn Leaf A Preliminary Clinical Investigation. International Journal Of Aromatherapy [Internet]. 2004 [cited 2014 Dec 4]: 14(1): 15. Available from: Elsevier

12. Javed S, Atta-ur-Rahman. Aloe Vera Gel in Food, Health Products and Cosmetics Industry. *Studies in Natural Products Chemistry* [Internet]. 2014 [cited 2014 Dec 6]: 41: 263-271. Available from: ScienceDirect
13. Wijaya RA. Formulasi Krim Ekstrak Lidah Buaya (Aloe vera) Sebagai Alternatif Penyembuh Luka Bakar [Skripsi]. Universitas Negeri Semarang [internet]. 2013.
14. Akhtar N, Khan BA, Khan MS, Mahmood T, Khan HMS, Iqbal M, Bashir S. Formulation Development and Moisturising Effects of a Topical Cream of Aloe vera Extract. *World Academy of Science, Engineering & Technology* [internet]. 2011 [cited 2015 Feb 4]: 5(54): 1149. Available from: waset.org
15. Graham R, Burns BT. 2005. *Lecture Notes Dermatologi*. Jakarta. Erlangga.
16. Sundberg, John P.; Nanney, Lillian B.; Fleckman, Philip; King, Lloyd E. *Skin and Adnexa*. *IEEE Transactions on Antennas and Propagation* [internet]. 2012 [cited 2014 Dec 24]: . Available from: Elsevier
17. Bouwstra JA, Honeywell-Nguyen PL, Gooris GS, Ponc M. Structure Of The Skin Barrier And Its Modulation By Vesicular Formulations. *Prog Lipid Res* [internet]. 2003 [cited 2015 Jan 24]: 42(1):1-36. Available from: Elsevier
18. Sundberg JP, Nanney LB, Fleckman P, King LE. *Skin and Adnexa*. *Comparative Anatomy and Histology* [internet]. 2012 [cited 2015 Jan 24]: 434. Available from: Elsevier

19. Matt Venus; Jacqueline Waterman; Ian McNab. Basic Physiology Of The Skin. Surgery (Oxford) [internet]. 2010 [cited 2014 Dec 24]: 28(10): 433. Available from: Elsevier.
20. Djuanda Adhi., 2007., Ilmu Penyakit Kulit Dan Kelamin. Edisi kelima. Balai Penerbit FKUI. Jakarta
21. Son ED, Kim Y, Joo KM, et al. Skin Dryness In Apparently Healthy Human Skin Is Associated With Decreased Expression Of Bleomycin Hudrolase In The Stratum Corneum. Clinical and Experimental Dermatology [internet]. 2014 [cited 2015 Jan 23]. Available from: Wiley Blackwell (Blackwell Publishing)
22. Yokota M, Shimizu K, Kyotani D, Yahagi S, Hashimoto S, Masaki H. The Possible Involvement Of Skin Dryness On Alterations Of The Dermal Matrix. Experimental Dermatology [internet]. 2014 [cited 2015 Jan 23]: 23: 27. Available from: Wiley Blackwell (Blackwell Publishing)
23. Katagiri C, Sato J, Nomura J, Denda M. Changes In Environmental Humidity Affect The Water-Holding Property Of The Stratum Corneum And Its Free Amino Acid Content, And The Expression Of Filaggrin In The Epidermis Of Hairless Mice. J Dermatol Sci [internet]. 2003 [cited 2015 Jan 23]: 31(1):29-35. Available from: Elsevier
24. Denda M, Sato J, Masuda Y, Tsuchiya T, Koyama J, Kuramoto M, Elias PM, Feingold KR. Exposure To A Dry Environment Enhances Epidermal

- Permeability Barrier Function. *J Invest Dermatol* [internet]. 1998 [cited 2015 Jan 23]: 111(5):858-63. Available from: NCBI
25. Sato J, Denda M, Nakanishi J, Koyama J. Dry Condition Affects Desquamation Of Stratum Corneum In Vivo. *J Dermatol Sc* [internet]. 1998 [cited 2015 Jan 23]: 18(3):163-9. Available from: Elsevier
26. Hellemans L, Corstjens H, Neven A, Declercq L, Maes D. Antioxidant Enzyme Activity In Human Stratum Corneum Shows Seasonal Variation With An Age-Dependent Recovery. *J Invest Dermatol*. [internet]. 2003 [cited 2015 Jan 23]: 120(3):434-9. Available from: NCBI
27. Krutmann J, Liu W, Li L, Pan X, Crawford M, Sore G, Seite S. Pollution And Skin: From Epidemiological And Mechanistic Studies To Clinical Implications. *J Dermatol Sci* [internet]. 2014 [cited 2015 Jan 23]: 76(3):163-168. Available from: Elsevier
28. Ahn K. The Role Of Air Pollutants In Atopic Dermatitis. *J Allergy Clin Immunol* [internet]. 2014 [cited 2015 Jan 23]: 134(5):993-9. Available from: Elsevier
29. Al-Nuaimi, Yusur; Sherratt, Michael J.; Griffiths, Christopher E.M. Skin Health In Older Age. *Maturitas* [internet]. 2014 [cited 2015 Jan 24]: 79(3): 256-264. Available from: Elsevier

30. Goldsmith LA, Thomas NE. Disorders of cornification. Moschella SL, Huerley HJ eds. *Dermatology* 3rd ed. Philadelphia: WB Saunders, 1992: 1383-1417
31. Buxton PK. The Skin And Systemic Disease II. ABC of Dermatology [Internet]. 1988 [cited 2015 Jan 1]: 298: 916. Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2546300/pdf/bmj00278-0043.pdf>
32. Horii I, Nakayama Y, Obata M et al. Stratum Corneum Hydration And Amino Acid Content In Xerotic Skin. *Br J Dermatol* [internet]. 1989 [cited 2015 Jan 24]: 121(5):587-92.. Available from: NCBI
33. Watanabe M, Tagami H, Horii I, Takahashi M, Kligman AM. Functional Analyses Of The Superficial Stratum Corneum In Atopic Xerosis. *Arch Dermatol* [internet]. 1991 [cited 2015 Jan 24]: 127(11):1689-92. Available from: NCBI
34. Rawlings AV, Harding CR. Moisturization And Skin Barrier Function. *Dermatol Ther* [internet]. 2004 [cited 2015 Jan 24]: 17(1):43-8. Available from: NCBI
35. Kaul N, Winnipeg. Skin Moisturizers: Therapeutic Potential And Preventive Maintenance Of Dry Skin. *Journal of the American Dermatology* [internet]. 2008 [cited 2015 Jan 24]: 58(2): 615. Available from: scinedirect

36. Geonnotti A, Garcia AR, Burnet D, et al. Use Of In Vitro Methods To Quantify The Ability Of Moisturizing Products To Hydrate Skin And Provide A Water Vapor Barrier: Development Of A Moisturization Index For Persons With Atopic Dermatitis. *Journal of the American Academy Of Dermatology* [internet]. 2013 [cited 2015 Jan 25]; 68(4): 6610. Available from: Elsevier
37. Baumann L. Moisturizing Agents. In: *Cosmetic Dermatology. Principles and Practise*. Mcn Graw Hill: New York. 2002: 93-95
38. Furnawanti. 2002. *Khasiat Dan Manfaat Lidah Buaya*. Jakarta. Agromedia Pustaka.
39. Alan D. Klein, M.D., and Neal S. Penneys, M.D., Ph.D. Miami, FL. Aloe vera. *Journal of the American Academy Of Dermatology* [internet]. 1988 [cited 2015 Jan 25]; 18: 714. Available from: Elsevier
40. Choi S, Chung MH. A Review on The Relationship Between Aloe vera components and Their Biologic Effect. *Seminar in IntegrativeMedicine* [internet]. 2003 [cited 2015 Jan 25]; 1(1): 53. Available from: Elsevier
41. Richardson J, Smith JE, McIntyre M, Thomas R, Pilkington K. Aloe Vera For Preventing Radiation-Induced Skin Reactions- A Systematic Literature Review. *Clinical Oncology* [internet]. 2005 [cited 2015 Jan 25]; 17(6): 478. Available from: Elsevier
42. Gage Diane. 1996. *Aloe Vera: Nature's Soothing Healer*. United States. Inner Traditions / Bear & Co.

43. Hamsi MA, Othman F, Das S, et al. Effect Of Consumption Of Fresh And Heated Virgin Coconut Oil On The Blood Pressure And Inflammatory Biomarkers: An Experimental Study In Sprague Dawley Rats. Alexandria Journal of Medicine [internet]. 2014 [cited 2015 Jan 25]; 2. Available from: Elsevier
44. Baocheng Xu, Peiwu Li, Fei Ma, et al. Detection of Virgin Coconut Oil Adulteration with Animal Fats Using Quantitative Cholesterol by GC × GC–TOF/MS Analysis. Food Chemistry [internet]. 2015 [cited 2015 Jan 25]. Available from: ScienceDirect
45. Dosumu OO, Duru O, FI AA, Osinubi AA, et al. Influence Of Virgin Coconut Oil (VCNO) On Oxidative Stress, Serum Testosterone And Gonadotropic Hormones (FSH, LH) In Chronic Ethanol Ingestion. Agric Biol J North Am [internet]. 2010 [cited 2015 Jan 25]; 1: 1126–32. Available from: Elsevier
46. Agero AL, Verallo-Rowell VM. A Randomized Double-Blind Controlled Trial Comparing Extra Virgin Coconut Oil With Mineral Oil As A Moisturizer For Mild To Moderate Xerosis. Dermatitis. [internet]. 2004 [cited 2015 Jan 25]; 15(3):109-16. Available from: NCBI
47. Evangelista MTP, Casintahan FA, Villafuerte LL. The Effect Of Topical Virgin Coconut Oil On SCORAD Index, Transepidermal Water Loss, And Skin Capacitance In Mild To Moderate Pediatric Atopic Dermatitis: A Randomized, Doubleblind, Clinical Trial. International Journal of

Dermatology [internet]. 2014 [cited 2015 Jan 25]; 53 : 101. Available from:
NCBI

Lampiran 1. *Informed Consent* (Persetujuan Pasien)

JUDUL PENELITIAN :

**EFEKTIVITAS CAMPURAN EKSTRAK ALOE VERA DAN VIRGIN
COCONUT OIL DALAM FORMULASI PELEMBAB PADA KEKERINGAN
KULIT**

PELAKSANA : DEBY CHINTIA

INFORMED CONSENT

Yth. Bapak/Ibu/Sdr :

Nama saya Deby Chintia, saya mahasiswa Program Studi S1 Ilmu Pendidikan Dokter Fakultas Kedokteran UNDIP. Saya melakukan penelitian dengan judul “Efektivitas Campuran Ekstrak *Aloe vera* dan *Virgin Coconut Oil* dalam Formulasi Pelembab pada Kekeringan Kulit”. Tujuan dari penelitian ini adalah untuk menilai efektivitas formulasi pelembab. Anda terpilih sebagai peserta penelitian ini. Apabila Saudara setuju sebagai peserta penelitian maka ada beberapa hal yang akan Saudara alami, yaitu:

- Diminta berbagai informasi mengenai keadaan kulit Saudara.
- Permintaan informasi akan dilakukan sebelum dan sesudah pemberian produk pelembab penelitian.
- Saudara diminta menggunakan produk pelembab penelitian selama 3 minggu.

Keuntungan bagi Saudara yang bersangkutan ikut dalam penelitian ini adalah mengurangi kekeringan kulit. Saya menjamin bahwa penelitian ini tidak akan

menimbulkan efek yang merugikan pada Saudara. Dalam penelitian ada intervensi dalam bentuk penggunaan produk pelembab penelitian selama 3 minggu. Setiap data pemeriksaan dan penelitian dijamin kerahasiaannya. Sebagai peserta penelitian keikutsertaan ini bersifat sukarela dan tidak dikenakan biaya penelitian. Apabila ada informasi yang belum jelas atau pertanyaan mengenai penelitian ini Saudara bisa menghubungi saya Deby Chintia, mahasiswa Program Studi S1 Ilmu Pendidikan Dokter FK UNDIP (HP 085789839960)

Terima kasih atas kerjasama Saudara.

JUDUL

Setelah mendengar dan memahami penjelasan tentang penelitian, dengan ini saya menyatakan:

Nama :

Usia :

Jenis kelamin : Laki-laki / Perempuan*

Pendidikan :

Pekerjaan :

Alamat :

Hubungan dengan pasien :

Menyatakan: **SETUJU / TIDAK SETUJU***

(Jika setuju)

Untuk ikut sebagai peserta penelitian, atas nama pasien:

Nama :

Tanggal lahir :

Jenis kelamin : Laki-laki / Perempuan*

Alamat :

Semarang,2015

Peneliti Saya yang membuat pernyataan

7. Apakah anda menggunakan produk pelembab kulit pada tangan sebelumnya?

Ya

Tidak

8. Jika Ya, sebutkan:

9. Apakah ruangan kuliah menggunakan pendingin atau AC?

Ya

Tidak

10. Jika Ya, berapa jam dalam sehari anda berada dalam ruangan berpendingin atau AC?

1-3 jam

9-12 jam

3-6 jam

> 12 jam

6-9 jam

Kuesioner telah dikonsulkan dan disetujui oleh:

dr. Holy Ametati, Sp. KK

NIP. 19740127 200912 2 001

dr. Diah Adriani Malik, Sp. KK

NIP. 19610422 198711 2 001

dr. Retno Indar Widayati, M. Si, Sp. KK

NIP. 19621017 119061 2 001

KUESIONER PENELITIAN

a. Sebelum aplikasi produk pelembab pemakaian (H0)

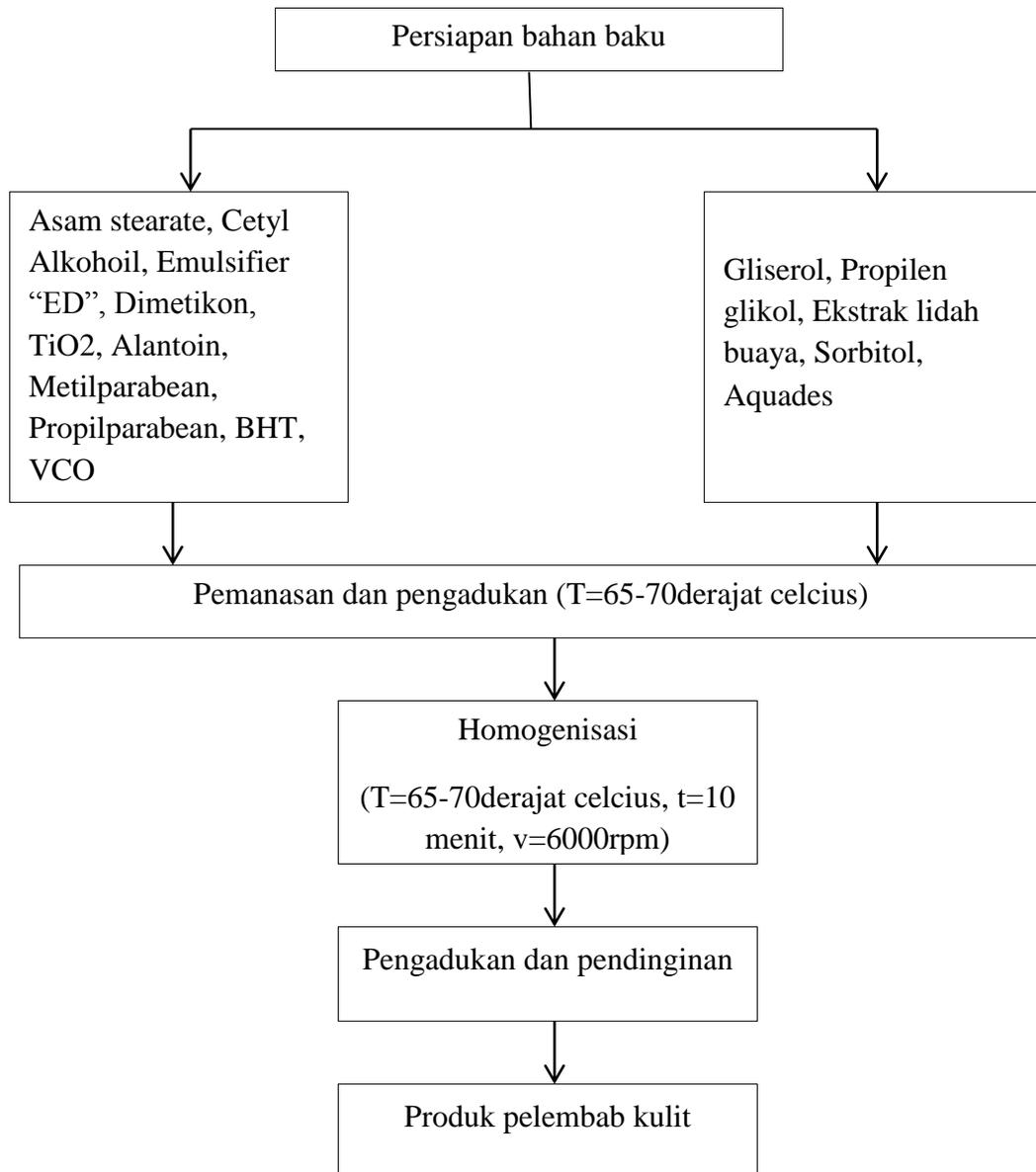
Berilah tanda centang (√) skor table dibawah berdasarkan keadaan kulit anda

Parameter	
<i>Visual Scoring of Skin Condition (VSS)</i>	
1. Normal, tidak terlihat bersisik atau ada iritasi	
2. Sangat sedikit bersisik dan hanya terjadi sesekali	
3. Sedikit bersisik, merata di beberapa daerah namun tidak meluas	
4. Bersisik, tampak lebih luas dan kemerahan	
5. Sangat bersisik, kulit tampak pecah-pecah dan tampak kemerahan/perdarahan	

b. Setelah aplikasi produk pelembab pemakaian (H21)

Berilah tanda centang (√) skor table dibawah berdasarkan keadaan kulit anda

Parameter	
<i>Visual Scoring of Skin Condition (VSS)</i>	
6. Normal, tidak terlihat bersisik atau ada iritasi	
7. Sangat sedikit bersisik dan hanya terjadi sesekali	
8. Sedikit bersisik, merata di beberapa daerah namun tidak meluas	
9. Bersisik, tampak lebih luas dan kemerahan	
10. Sangat bersisik, kulit tampak pecah-pecah dan tampak kemerahan/perdarahan	

Lampiran 3. Cara kerja pembuatan krim

Lampiran 4. Hasil Analisis Data dengan SPSS 21.0 for Windows**Tipe kulit**

		Frequenc y	Percent	Valid Percent	Cumulative Percent
	NOrmal	4	12,5	12,5	12,5
Valid	Kering	28	87,5	87,5	100,0
	Total	32	100,0	100,0	
Missing	System	0	0		
Total		32	100,0		

Riwayat alergi

		Frequenc y	Percent	Valid Percent	Cumulative Percent
Valid	tidak	32	100,0	100,0	100,0
Missing	System	0	0		
Total		32	100,0		

Pengguna produk pelembab sebelumnya

		Frequenc y	Percent	Valid Percent	Cumulative Percent
	ya	27	84,4	84,4	84,4
Valid	tidak	5	15,6	15,6	100,0
	Total	32	100,0	100,0	
Missing	System	0	0		
Total		32	100,0		

Pendingin ruangan

		Frequenc y	Percent	Valid Percent	Cumulative Percent
	ya	31	96,9	96,9	96,9
Valid	tidak	1	3,1	3,1	100,0
	Total	32	100,0	100,0	
Missing	System	0	0		
Total		32	100,0		

Durasi penggunaan ac

	Frequenc y	Percent	Valid Percent	Cumulative Percent
Valid	0 jam	1	3,1	3,1
	1-3 jam	8	25,0	28,1
	3-6 jam	16	50,0	78,1
	6-9 jam	6	18,8	96,9
	> 12 jam	1	3,1	100,0
	Total	32	100	100,0
Missing System		0	0	
Total		32	100,0	

Ranks

	N	Mean Rank	Sum of Ranks
Post - Pre Negative Ranks	25 ^a	13,00	325,00
Positive Ranks	0 ^b	,00	,00
Ties	7 ^c		
Total	32		

a. Post < Pre

b. Post > Pre

c. Post = Pre

Test Statistics^a

	Post - Pre
Z	-4,838 ^b
Asymp. Sig. (2-tailed)	,000

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

Lampiran 5. Foto Penelitian





Lampiran 6. Biodata mahasiswa**Identitas**

Nama : Deby Chintia
 NIM : 22010111130074
 Tempat/tanggal lahir : Metro / 17 Juni 1993
 Jenis Kelamin : Perempuan
 Alamat : Jl. Gondang timur 2, Bulusan-Tembalang, Semarang
 Nomor telepon : -
 Nomor Hp : 085789839960
 e-mail : debychintiaaa@yahoo.com

Riwayat Pendidikan Formal

- | | | | |
|-------------|-------------------------------|-------------|--------|
| 1. SD | : SD Negeri 1 Metro Pusat | Lulus tahun | : 2005 |
| 2. SMP | : SMP Negeri 1 Metro | Lulus tahun | : 2008 |
| 3. SMA | : SMA Negeri 2 Bandar Lampung | Lulus tahun | : 2011 |
| 4. FK UNDIP | : Masuk tahun 2011 | | |

Keanggotaan organisasi

- | | |
|------------|---------------------|
| 1. AMSA | Tahun 2012 s/d 2013 |
| 2. ROHISKU | Tahun 2012 s/d 2013 |

Pengalaman penelitian : -

Pengalaman publikasi : -

Pengalaman presentasi karya ilmiah : -

Pengalaman mengikuti lomba karya ilmiah : -