





CERTIFICATE

OF APPRECIATION

THE CERTIFICATE IS AWARDED TO:

Muhammad Yanis Musdja

as Oral Presenter

For presenting His/Her outstanding research work (Abstract ID: ABS-10)
with the theme "Education, Research and Health Practice in the New Normal: Challenges and Opportunity"
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IAI NO: SKP.287/ PP.IAI/1822/VII/2020 Speaker 4.5 SKP, Moderator 1.5 SKP Committee 1.5 SKP, Oral Presenter 3 SKP, Participant 8 SKP



ICHS 2020



Comparison of the Effects of Aloe vera L and Aleurites moluccanus, in Single and Mixed Forms in Promoting Hair Growth

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• Hair loss can cause baldness and in medical called with Alopecia, this occurs due to stress, genetic factors, hormonal disorders, nutritional deficiencies, and the effects of certain health problems. Herbs is a fairly good op tion for this treatment, because it has low side effects.

 The aim of this study was to compare the single and combined action of Aloe vera L (aloe vera) and Aleurites moluccanus L (candlenut) on the growth of rabbit hair

 The test was carried out with a 5% content for each preparation in the form of a gel, as a positive control 5% minoxidil gel was used. A total of 5 rabbits, each on their back, their hair was cut in 6 squares, each plot with an area of 2cm square, the remaining hair was removed with a depilatory cream, until hair looked exhausted. In each plot, 6 kinds of test preparations were applied, namely gel: Aloe vera L, Aleurites moluccanus L, a combination of Aloe vera L and Aleurites moluccanus L, positive control, normal control and negative control



Aloe vera L (aloe vera)/Lidah buaya



Aleurites moluccanus L (candlenut)/Kemiri

EXTRACT CHARACTERISTICS

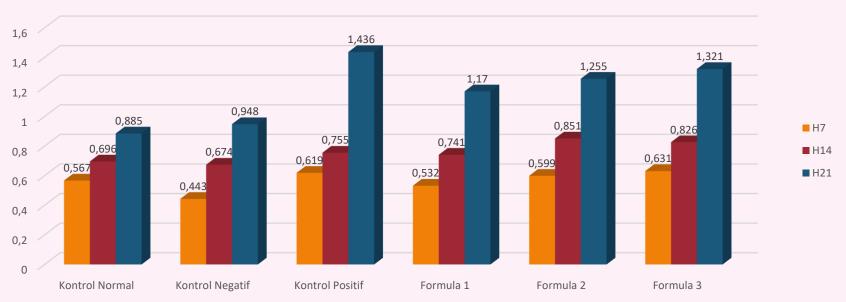
Characteristics	Aloe Vera Leaf	Candlenut oil	
	Extract		
Color	Greenish yellow	Dark brown	
Shape	Powder	Viscous liquid	
Water content	12,38%	17,35%	
Ash content	9,353%	1,531%	
Rendement	0,75%	2,096%	

GEL DOSAGE FORMULATIONS

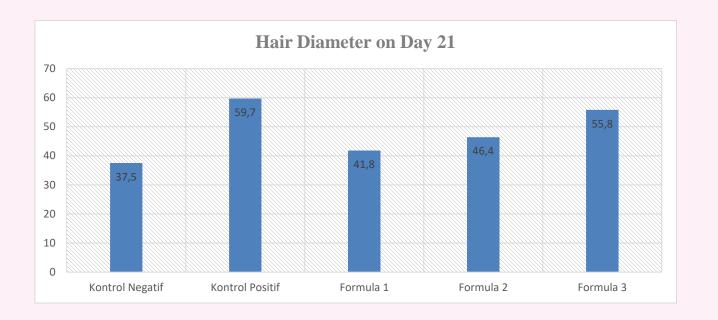
Material	Negative control	Positive control	Aloe Vera Extract	Candlenu t oil	Combination of Aloe Vera Extract + Candlenut oil	
Candlenut oil	-	-		5	5	Formula 1
Aloe Vera Extract	-	-	5		5	Formula 2
Combination of Aloe Vera	-	-	2,5	2,5	5	Formula 3
Extract + Candlenut oil						
Minoksidil			1			
Na CMC	3,0	3,0	3,0	3,0	3,0	
Propilenglicol	3,75	3,75	3,75	3,75	3,75	
Glycerin	7,5	7,5	7,5	7,5	7,5	
Nipagin	0,05	0,05	0,05	0,05	0,005	
Aquadest	Ad 100	Ad 100	Ad 100	Ad 100	Ad 100	

RESULT

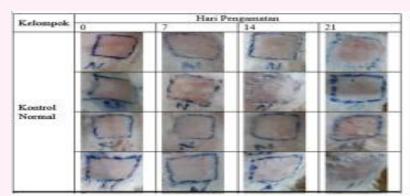
Hair growth curve

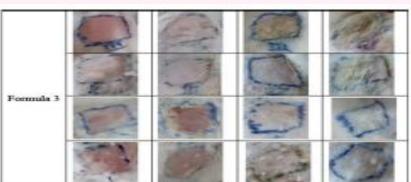


The results of the one-way ANOVA statistical analysis of hair growth data just on day 21 showed a significantly different (P< 0.05)

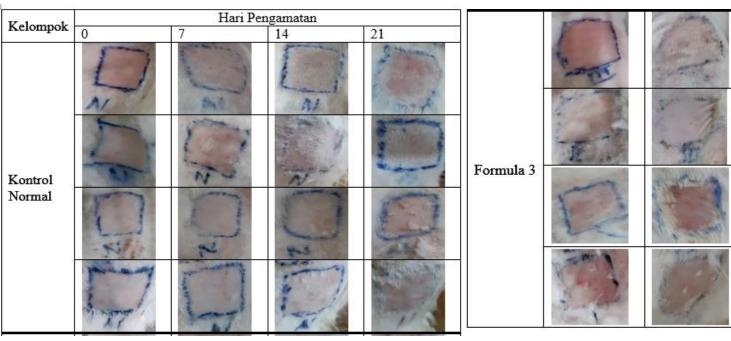


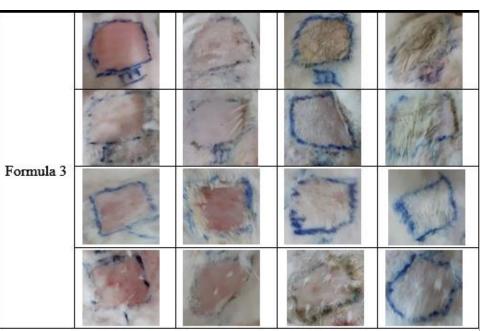
Results of Visual Observation of Average Rabbit Hair





Results of Visual Observation of Average Rabbit Hair





Measuring Hair Diameter by Light Microscope

Lampiran 12. Gambar Mikroskopik Rambut

Lampiran 12. Gantoa Wikioskopik Ramout								
Kelompok	Gambar		Diameter		6.			
Kontrol Normal			31,7 mikrometer 37,5 mikrometer	Formula 1			41,8 mikromete	
				Formula 2			46,4 mikromete	
Kontrol Negatif				Formula 3	19		55,8 mikrometer	

Measuring Hair Diameter with a Scanning Electron Microscope (SEM)

Lampiran 13. Gambar Rambut Uji SEM

Lampiran 13. Gambai Rambut Oji Sisivi								
Kelompok	Gambar		Diameter					
Kontrol Normal	Perbesaran 750	Perbesaran 1.500	17,8 mikrometer	Formula 1			26,1 mikrometer	
Kontrol Negatif			21,4 mikrometer	Formula 2			33,4 mikrometer	
Kontrol Positif	SURVIK WARRANTO		54,9 mikrometer	Formula 3			36,7 mikrometer	

CONCLUSION

Gel combination of aloe vera leaf extract and hazelnut seed extract had an effect on hair growth of the New Zealand male white rabbit, in the form of increased hair length, increased hair weight, and increased hair diameter compared to negative controls, as well as hair growth activity, had the same effect. with minoxidil as a positive control.

