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Research Article

Camparative analytical study of *Malatyadi Taila* prepared with *Murchhit* and *Amurchhit Til Taila*

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ABSTRACT:

Article content comparative analytical review of Malatyadi Taila prepapred by Murchhit tila taila and Amurchhit Tila taila. Analytical values of following will campare in this article. The Iodine value is the number which expresses in grams the quantity of Halogen, calculated as Iodine, which is absorbed by 100 gm of the substance under the described conditions. Oil and ghee contains saturated and unsaturated glycerides and Iodine Value is a measure of the degree of unsaturation of oil or ghee. The Saponificaiton Value is the number of milligrams of Potassium Hydroxide necessary to neutralize the free acids and to saponify the esters present in 1 gm of the substance. The liquid under test is filled in a U tube viscometer in accordance with the expected viscosity of the liquid so that the fluid level stands within 0.2 mm of the filling mark of the viscometer when the capillary is vertical and specified temperature is attained by the test liquid. The acid value (AV) is the number that expresses, in milligrams the quantity of potassium hydroxide required to neutralize the free acids present in 1 g of the substance. Acid value is the measure of hydrolytic rancidity. The pH value conventionally represents the acidity or alkalinity of an aqueous solution. Total Fatty Matter Transfer a suitably weighed quantity (depending on the fixed oil content) of the air dried, crushed drug to an extraction thimble, extract with Solvent ether (or petroleum ether, B.P. 40° to 60°C) in a continuous extraction apparatus (Soxhlet extractor) for 6 hours. free fatty acid Mix the oil or melted fat thoroughly before weighing. Weigh accurately about 5 to 10 g of cooled oil sample in a 250 ml conical flask and add 50 ml to 100 ml of freshly neutralised hot ethyl alcohol and about one ml of phenolphthalein indicator solution.

KEY WORDS: MMT, AMT, murchhana, til taila,

INTRODUCTION:

Ayurveda has given priority to keep the person healthy first and besides these efforts, if disease occur then cure it. This means that Ayurveda believes in maintaining goodhealth, free from diseases. The reference of present study of 'Malatyadi taila" in chakradatta shudraroga chikista prakaram,indicated "Darunak" Darunak is mentioned shudrarogaadhikar, in which aggravation of vata and kapha together, the sclap becomes cracked dry and has itching, this condition is called Darunak. Acharya has mentioned shodhanchikista for Darunak like, snehan, swedan, shiravedhan, raktamokshan, nasya, shirobasti, etc. Acharya Charaka had described first time primary dosages forms i.e. Swarasa (juice), kalka (paste), kwatha (decoction), hima (cold infusion) & phanta (hot infusion) and mentioned them as Panchvidhakashaya kalpana first time . Acharya Charaka was of the opinion that the drug having quality to produce arogya is the best drug. Keeping

this view in the mind a number of secondary preparations have been derived from these five basic preparations eg. Asavarishta (fermentation), lepa (paste), churna, vati (pills) etc. Sneha kalpana is well known among them. Sneha Kalpana may be defined as - 'A pharmaceutical process to prepare oleaginous medicaments from the substances like Kalka, Kwatha and Drava dravyas, in specific proportions by subjecting to a unique heating pattern and duration to fulfill certain pharmaceutical parameters, according to the need of therapeutics'. This process ensures transformation of the active therapeutic properties of the ingredients to the solvents and hence to get fat soluble, water soluble or even the chemical constituents which are soluble in media like Kanji, Butter milk etc. It is again of two types like Ghrita and Taila Kalpana. Taila Kalpana takes important role among sneha kalpana.

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MATERIALS AND METHODS:

नलिका गन्धनलिका उत्तरदेशे प्रसिध्दा तद् भावे त्वक्:

MATERIALS-

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Drugs used for Tila taila murchhana

Table No. 1: Tila taila murchhana

Sr. No.	Drug name	Latin name	Part use	Quantity
1	Manjistha	Rubia cordifolia Linn.	Kanda	60 gm
2	Haridra	Curcurma longa Linn.	Kanda	15 gm
3	Lodhra	Symplocos racemosa Roxb.	Kanda	15 gm
4	Nagarmotha	Cyperus rotundus Linn.	Twak	15 gm
5	Nalika/substitute twak	Cinnamomum zaylanicum Blume.	Twak	15 gm
6	Aamalki	Embelica officinalis Gaertn	Fruit	15 gm
7	Haritaki	Terminalia chebula Retz.	Fruit	15 gm
8	Bibhitak	Terminalia bellirica Roxb.	Fruit	15 gm
9	Kevada	Pandanus odoratissimus	Patra	15 gm
10	Kumari	Aloe vera Tourn.ex Linn	Patra	15 gm
11	Bala	Vetiveria zizanioides Linn.	Mula	15 gm
12	Tila taila	-	-	1 lit.
13	Jalam	г	-	4 lit.

Table No. 2: Drugs for Murchhit Malatyadi taila (MMT)

Sr. No.	Drug name	Latin name	Part use	Quantity
1	Malati	Jasminum grandiflorum Linn.	Pushpa	50 gm
2	Karveer	Nerium indicum Mill.	Mula	50 gm
3	Karanj	Pongamia pinnata Pierre.	Beeja	50 gm
4	Chitrak	Plumbago zeylanica Linn.	Mula	50 gm
5	Murchhit tila taila	-	-	800 ml
6	Jalam	-	-	3200 ml

Table No. 3: Drugs for Amurchhit Malatyadi taila (AMT)

Sr. No.	Drug name	Latin name	Part use	Quantity
1	Malati	Jasminum grandiflorum Linn.	Pushpa	50 gm
2	Karveer	Nerium indicum Mill.	Mula	50 gm
3	Karanj	Pongamia pinnata Pierre.	Beeja	50 gm
4	Chitrak	Plumbago zeylanica Linn.	Mula	50 gm
5	Amurchhit tila taila	-	-	800 ml
6	Jalam	-	-	3200 ml

Equipments used for preparation of Malatyadi taila for both method.

- Stainless still vessel
- Cloth
- Khalva yantra
- Stirrer
- Measuring pot
- Clean plastic bottle

Table No. 4: Showing Comparison of Organoleptic characters between MMT and AMT

Parameters	MMT	AMT
Roop	Dark brown	Yellowish brown
Gandh	Specific	Specific
Ras	Katu tikta	Katu tikta
Sparsh	Mrudu	Mrudu
Shabd	-	-

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Table No. 5: Showing Comparison between time taken and yield and appearance between MMT and AMT

Parameters	MMT		AMT	
Intial quantity of taila	800ml		800ml	
Final quantity obtained	y obtained 600ml		700ml	
Time taken for pakalakshane	n for pakalakshane 8-9 hrs		8-9 hrs	
Appereance	Sticky		sticky	
Voild nevertage	Loss in %	Gain in %	Loss in %	Gain in %
Yeild percentage	20%	80%	10%	90%

Table No. 6: Showing Analytical values of MMT and AMT

Sr. No.	Parameter	Unit	Value		
Sr. No.		Unit	MMT	AMT	
1	рН	-	6.32	5.81	
2	Viscosity	cP	08.23	7.92	
3	Acid Value	-	03.69	2.30	
4	Iodine value	-	121	127	
5	Saponification Value	-	173.78	173.41	
6	Free fatty acid	%	01.85	1.16	
7	Total fatty matter	%	96.72	99.61	

Analytical values of MMT and AMT 180 160 140 120 100 80 60 40 20 0 Saponifi Free Total Acid Iodine На cation fattv fattv Viscosity Value value Value acid matter ■ Value MMT 6.32 3.69 173.78 1.85 96.72 8.23 Value AMT 5.81 7.92 2.3 127 173.41 1.16 99.61 Parameters

Graph No. 1: Analytical values of MMT and AMT

CONCLUSION:

Saponification value, free fatty matter, and viscosity increased in MMT as campare to AMT due to murchhana samskar.

Viscosity increased due to murchhana smskar due to fine particles of kalka dravyas passed through cotton cloth at the time of filtration.

Murchhana of taila enhances the properties of taila as per classical analytical study done.

Malatyadi taila prepared with murchhit tila taila had increased saponification value, free fatty acid, and viscosity, where free fatty matter decreased. This indicates that Malatyadi taila prepared with murchhit tila taila (MMT) was better than Malatyadi taila

prepared with amurchhit tila taila (AMT).

Appearance of both MMT and AMT was same that was sticky.

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