### A STUDY ON THE PREVALENCE AND PATTERNS OF NON-VENEREAL GENITAL DERMATOSES IN A TERTIARY CARE HOSPITAL

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### **ABSTRACT**:

The non-venereal genital dermatoses have resemblance with sexually transmitted diseases. These non-venereal genital dermatoses are stressful to the patients especially if noticed after sexual intercourse. Hence the present study highlights on non-venereal genital dermatoses of both the sex. This case series study is done on 110 patients who presented to the Department of Dermatology, Venerology Leprosy, Vinayaka Missions Medical College, Karaikal, Pondicherry. Patients of both the sexes who presented to OPD from October 2021 to October 2022 with suspicion of genital dermatoses are taken into this study. The results showed that non venereal genital dermatoses are more common in males compared to females with majority of cases between age 31-40 years. Thorough knowledge about classical morphological presentation and histopathological features is needed for correct diagnosis and treatment.

### **INTRODUCTION:**

A number of conditions like venereal or non-venereal or non-infective or tumours etc. can affect genitalia. These non-venereal genital dermatoses are stressful to the patients especially if noticed after sexual intercourse. The non-venereal genital dermatoses, are with resemblance similar to that of sexually transmitted diseases. The presentation of each type of dermatoses is unique in nature and each need separate discussion. The characteristics of dermatosis are varied on genitals, in some patients it may be confined to genitals and in some others it may occur at many sites. Inmale's perianal skin, distal penile shaft, natalcleft, prepuce and glans penis are hairless and in female's vulva which is again sub divided into mons pubis, labia majora, labia minora are hair less. These areas being hairless and also consists of abundant functional eccrine, non-functional apocrine sweat glands and holocrine sebaceous glands all these help in proper lubrication and moisture in that particular areas. More over sex hormones also play a role in regional differentiation of skin in that particular area. The characteristics are modified depending on the moisture in local environment. Valval dermatoses may cause discomfort due to itch like sensation (LSA, eczema), it can be painful (example -Erosive LP, pemphigus), or sexual dysfunction(LSA), leading to stress for the patients and the partners also. Most of the dermatoses are non-infectious in nature if they occur in children sexual abuse can be suspected. In case of pre malignant conditions it is very important to recognise at the earlier stage. The genital dermatoses are difficult to diagnose and treat. There must be detailed history, complete dermatological examination, medical and

surgical management in most of the cases. Hence the present study highlights on non-venereal genital dermatoses of both the sex.

### **AIM AND OBJECTIVES:**

To study the common dermatological disease effecting genitalia and age and sex relationship with genital dermatoses.

### **MATERIALS AND METHODS:**

This case series study is done on 110 patients who presented to the Department of Dermatology, Venereology Leprosy, VMMC, Karaikal, Pondicherry. All patients of both the sexes who presented to OPD from October 2021 to October 2022 with suspicion of dermatoses are included in the study and detailed complete history, careful examination, relevant lab investigations were done to establish the final diagnosis.

### **RESULTS:**

**TABLE 1**: Age Distribution

Age group inyears	Total number of patients	Percentage ofTotal
0-10	5	4.54
11-20	9	8.18
21-30	30	27.27
31-40	46	41.81
41-50	15	13.63
51-60	5	4.54
61-70	0	0

**TABLE 2**:SexDistribution

Sex	No.ofpatients	Percentage
Male	87	79.09
Female	23	20.90
Total	110	100.00

## ${\bf Patients with genital lesions we reclassified into four\ major groups\ namely:}$

- 1-Generalcutaneous diseases
- 2-Infectionsandinfestations
- 3-Tumors
- 4-Miscellaneous

# NON-VENEREALGENITALLESIONS TABLE3

DIGNOSIS	NO.OFPATIENTS	PERCENTAGEO F TOTAL 44.54%		
Generalcutaneousdi seases	Total No. 49			
Vitiligo	18	16.36		
Lichenplanus	9	8.18		
Psoriasis	7	6.36		
Lichen sclerosis etatrophic us	3	2.72		
Bullousdisorders	4	3.63		
Dermatitis	4	3.63		
Drugs	2	1.81		
Plasmacellbalanitis	1	0.90		
Lichennitidus	1	0.90		
InfectionsandI nfestations	TotalNo.35	Percentage oftotal31.8 %		
Parasiticinfections	15	13.63		
Fungal	13	11.81		
Bacterial	4	3.63		
Viral	2	1.81		
Filarial	1	0.90		
Tumors	TotalNo.14	Percentage oftotal12.72 %		
Benign	11	10		
Premalignant&malignant	3	2.72		
Miscellaneous	TotalNo. ofPatients=12	Percentage oftotal 10.9%		
Fixeddrug eruption	3	2.72		
Balanoposthitis	4	3.63		
Paraphimosis	3	2.72		
Fox-Fordyce	1	0.90		
Mordor'sdisease	1	0.90		
Total	110	100.00		

### Distribution of diagnosis in adults and children are given in Table 4.

Male	5+9=14 Female 5 -	21 9 7
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Filariasis	1	-	-	-	1
Fournier'sgangrene	1	-	-	-	1
Paraphimosis	1	-	-	-	1
Mondor'sdisease	1	-	-	-	1
Folliculitis	1	-	-	-	1
Calcinosiscutis	1	-	-	-	1
FoxFordyce	-	1	-	-	1
Erythroplasia ofqueyrat	1	-	-	-	1
Hidradenitissuppurativa	1	-	-	-	1
Hansen'sdisease	1	-	-	-	1
Fixeddrug eruption	2	-	-	_	2

### **DISCUSSION:**

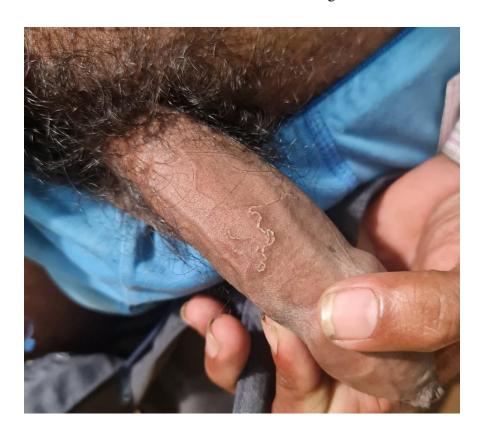
In our study most common age group affected by non -venereal diseases is between 31-40 years accounting for 41.81% of the study population. This is in correlation to the study done by Thappa DM et al (1), where peak age of incidence was observed to be between 31-40 years accounting for 45% of the study population. In our study male: female ratio is 3.7:1 indicating male preponderance which correlates with the previous study 4.4:1.Generalcutaneous diseases accounts for(44.54%) of the study population which is followed by,infections and infestations(31.8%),tumours(12.72%), and Miscellaneousother conditions (10.9%),

whichcorrelates with the previous study showing following percentages, 42.37%, 39.22%, 9.64% and 8.74% respectively. This is in correlation with the previous study. The most common non venereal disease is vitilized affecting 18 patients accounting for 16.36% of the study population. This is correlation with the study done by Thappa et al (1). Among the infections and infestations, scabies is the most common condition which is in correlation to the study done by Thappa et al, (1) Parasitic infections are more common among the infections and infestations accounting for 13.63% of study population followed by fungal infections (11.81%), bacterial infections (3.63%), viral infections (1.81), filarial infections (0.90). Benign tumours are more common than malignant tumours accounting for 10% of the study population. The miscellaneous causes accounted for 10.9% of all study population.



IAMGE 1: Lichen sclerosus et atropicus

**IMAGE 2**: Cutaneous larva migrans



**IMAGE 3**: Tinea



IAMGE 4 : Erythrasma



**IMAGE** 5 : Fixed Drug Eruption



### **CONCLUSION:**

Non venereal genital dermatoses are more common in males compared to females with majority of cases between 31-40 years. They are less prevalent in age group < 10 years and age group >70 years. The most common sites of involvement in males is scrotum and in females is labia majora. Through knowledge about classical morphological presentation and histopathological features is needed for correct diagnosis and treatment.

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