ORIGINAL RESEARCH PAPER		PAPER	Pathology
HIST CLIN SJOC WITT	STOPATHOLOGICAL CORRELATION WITH INICAL AND SEROLOGICAL PARAMETERS IN OGREN SYNDROME –CASE SERIES OF 48 PATIENTS TH REVIEW OF LITRATURE IN A TERTIARY CARE INTRE JHARKHAND.		KEY WORD: Sjogren's syndrome, anti-SSA/Ro, anti- SSB/La, focus score,lip biopsy
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glands. It is an elabora sicca and xerostomia. disease, most common Most widely accepted syndrome. These crit involvement and siald salivary gland biopsy of this paper is to empth INTRODUCTION Sjogren's syndrome is a chrom	It involvement of the lacrimal and It may occur in two forms - Primar nly rheumatoid arthritis. Numerou are American and European gro eria include ocular symptoms, graphy. The classification require	d salivary glands, which ever y and secondary, which is as us criteria were proposed foup developed international oral symptoms, ocular signers four of the six items, one liagnosis is important to pre- agnosis, and management of syndrome and who are w :-Dry mouth/Dental card	phocytic infiltration of the exocrine entually lead to keratoconjunctivitis ssociated with another autoimmune or diagnosis of Sjögren syndrome. Il classification criteria for Sjögren ns, histopathology, salivary gland e of which must be positive minor vent further complications. The aim fSjögren's syndrome. villing to participate in my study like es / Dry eye(Sicca syndrome) te known cases of other connective
destruction of lacrimal gland syndrome is an autoimmune the exocrine glands and ep mouth and dry eyes. Sjogr (Primary SS) or in associat disease like rheumatoid art	and salivary gland ^[1] . Sjogren's epithelitis affecting primarily ithelium, characterized by dry en's syndrome can be alone ion with another autoimmune thritis(RA) or systemic lupus it is called secondary SS.	 tissue disorders e.g. rhevasculitis, mixed connect EXCLUSION CRITERIA Patient who are not wit Seriously ill patient work of the seriously ill patient work of the series of	umatoid arthritis, SLE, Polymyositis, ive tissue disorder etc.
 New American College of Rheumatology classification criteria for sjogren's syndrome have at least two of the following three objective feature. Postive serum anti-SSA/Ro and anti-SSB/La or a positive rheumatoid factor and ANA titer ≥ 1:320 Minor salivary gland biopsy exhibiting focal lymphocytic sialadenitis with a focus score ≥lfocus/4mm² Keratoconjuctivitis sicca with ocular staining score ≥3. 		psychotics etc. STUDY TOOLS – • Consent form	HCV,HIV etc
Minor salivary gland biopsy (sensitivity 64% to 86% , specificity 90% to 92%) is the gold standard diagnosis of sjogren's syndrome ^{[3].}		patientsVarious relevant too	ls for subsequent grossing, tissue section cutting, staining, mounting.
lymphocytic sialoadenitis" a more tightly aggregated l adjacent to normal gland tiss square mm area of gland lymphocytes are called foci a "focus score".	syndrome is termed "focal nd is characterized by one or ymphocytes (more than 50) ie and surrounding a duct in a 4 tissue. These aggregates of nd their total density is called a		stimation of serum anti-SSA/Ro and

10X

OBSERVATION AND RESULTS

FEMALE

44

92%

FOCUS SCORE

SEX DISTRIBUTION (TABLE NO.1)

FOCUS SCORE STATUS OF THE PATIENTS [TABLE 3]

0=Absent

62

- 1 = Slight infiltrate
- 2 = Moderate infiltrate or less than 50 lymphocytes/4mm²
- $3 = One focus per 4mm^2$
- $4 = More than one focus per 4 mm^{2}$.^[4]

(Waterhouse and Doniach first defined a 'focus' as a cluster of 50 or more lymphocytes, infiltrating the minor salivary glands in case of Sjogren's syndrome in the year 1966.) $^{\scriptscriptstyle [5]}$

MATERIAL AND METHODS

TYPE OF STUDY - Observational (Cross sectional study) **INCLUSION CRITERIA -** Patients suffering with sjogren

NO. OF PATIENTS www.worldwidejournals.com

40X

MALE

04

08%

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0	01
1	02
2	20
3	22
4	03

SEROLOGICAL PROFILE OF THE PATIENTS [TABLE 4]

ANTIBODIES	NO. OF POSITIVE PATIENTS	NO. OF NEGATIVE PATIENTS
Anti - SSA	46	02
Anti - SSB	32	16
Anti – SSA and Anti - SSB	32	02

DISCUSSION

Sjögren's syndrome is an Autoimmune Exocrinopathy involving lacrimal and salivary glands leading to progressive destruction of glands resulting in dry eyes and dry mouths (Cardinal symptoms of the disease), it may exist alone (primary SS) or in Association with other Connective tissue disease (secondary sjogren's syndrome) primary SS constitutes only 0.5% to 5% ^[2]. and is an uncommon and under diagnosed entity due to lack of awareness amongst treating physicians, ophthalmologist and dentist and even gynaecologist. This report highlights the rarity of this disease in our geographic region.

Sjogren's Syndrome typically affects female between age 30-50 years(M/F=1:9)^[81]In Our study 2 patients who fulfilled the criteria of primary sjogren's syndrome (Sjogren's International Collaborative Clinical Alliance Cohort(SICCAC) or San Francisco Classification Criteria to diagnose Sjogren's Syndrome^[2] and 46 patients are of secondary sjogren's Syndrome associated with various other rheumatological disease, mostly Rheumatoid Arthritis(RA) and lesser extend Systemic Lupus Erythematosus (SLE) and mixed connective tissue disorder and among them 2 patients presented with arthritis and parotid swelling having

Histopathology of lip biopsy of 48 patients , most of them having focus score of 2-3 but 2 patients of primary Sjogren's syndrome having focus sore 3 & 4 who presented with dry mouth, dental caries and recurrent fetal loss. One female patients of age 63 of age presenting with attrited teeth and most of her teeth were lost, also have dry mouth ,dental caries, who don't have the history of fetal loss in her reproductive age having focus score 4. Two patients were presented with Sicca Syndrome (Xerostomia & Xeropthalmia), parotid swelling and lacrimal gland swelling who tested negative for RF, Anticcp & Anti-SSA(Ro), Anti-SSB(La) and having low focus score on lip biopsy.

All 48 patients were advised for Anti-SSA & Anti-SSB, among them 46 were positive for Anti-SSA & 32 were positive for Anti-SSB. 32 patients are positive for both Anti-SSA & Anti-SS B. 2 patients were negative for both Anti-SSA & Anti-SS B who have arthritis , dry mouth, parotid swelling and lacrimal gland swelling.

CONCLUSION

Thus, in conclusion Sjogren's Syndrome is an uncommon and under-diagnosed entity in India. Sjogren's Syndrome either primary or secondary diagnosed on the basis of San Francisco Classification criteria which necessarily include serological (Anti-SSA &Anti-SSB) and or lip biopsy.

But in resource limited country like India where serological test are not readily available in most part of the country and costly too, lip biopsy will be the cheaper mode of investigation to diagnose Sjogren's Syndrome which also guide for best the treatment plan.

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