



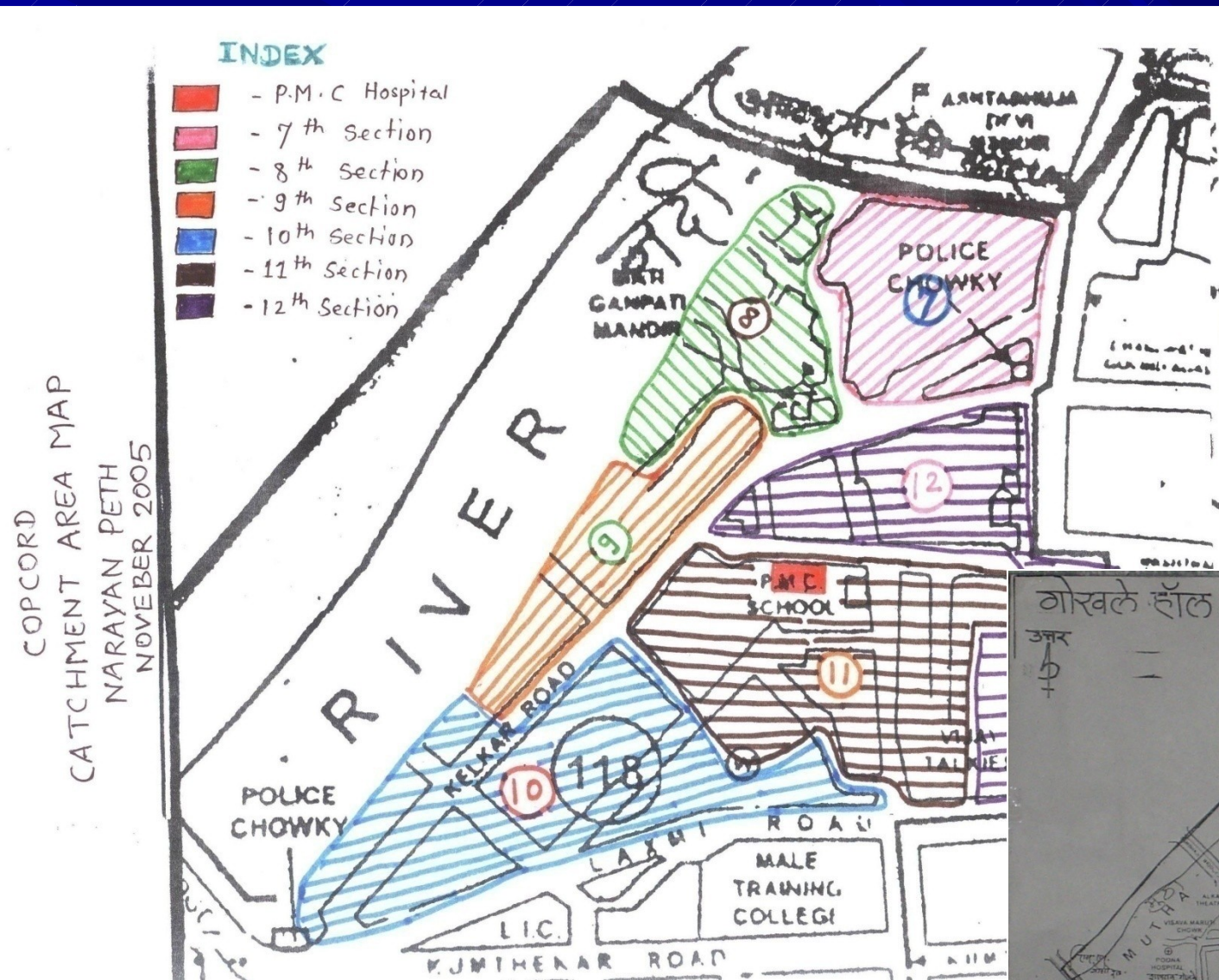
POPULATION BASED MULTIREGIONAL URBAN SURVEY PUNE 2004 FOR RMSD BASED ON THE WHO ILAR COPCORD BHIGWAN MODEL

DR. ARVIND CHOPRA ,
DIRECTOR CRD

DR VAIJAYANTI LAGU-JOSHI
CONSULTING RHEUMATOLOGIST
CRD,Pune

Dr. Ekta Chanchani
Research associate , CRD

Study site - Narayan Peth , PUNE



Methodology

- Non random selection of a well define locality & population
- Cross sectional house to house survey BY 30 TRAINED HEALTH VOLUNTEERS from May-Aug2004
- **8145** Adult population (age > 16yrs) surveyed., guided by the ELECTORAL LIST based on Indian population census 2001

■ TARGET POPULATION : 8145

■ PHASE 1 : 06/05/2004- 31/07/2004

■ 8145 (RR—91%)

■ PHASE 2: 08/05/2004—30/11/2004

■ 1245(

■ PHASE 3 :08/05/2004 –31/07/2005

■ 1152 CASES IDENTIFIED

8145 Population surveyed (RR 91%)
(**5822** electoral + **2322** non-electoral)

Phase I

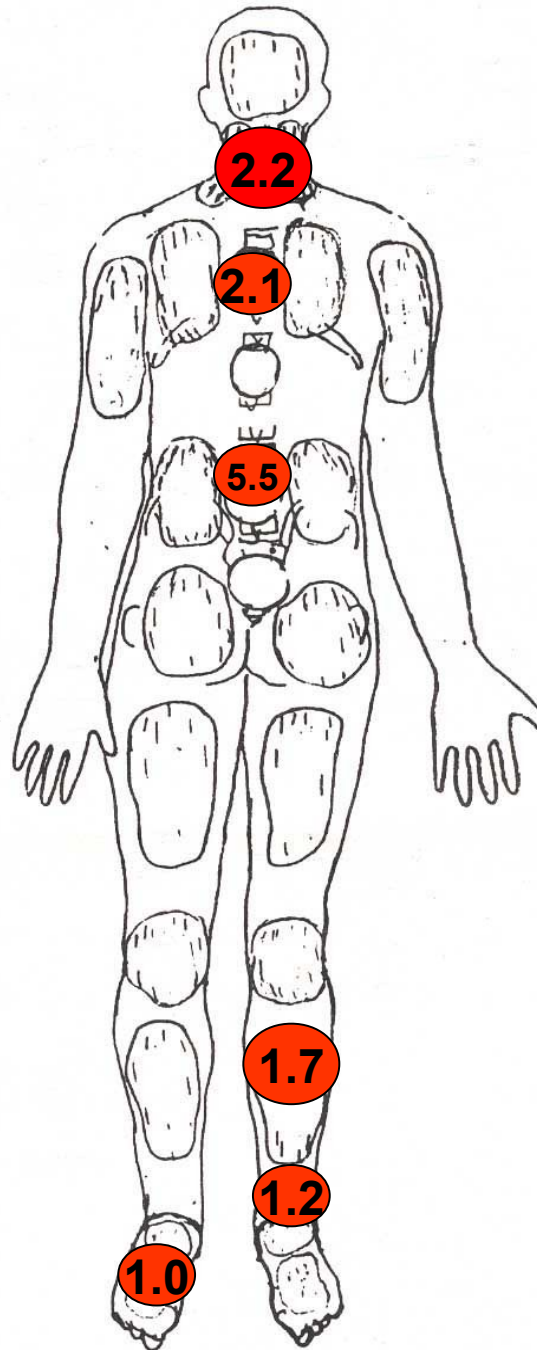
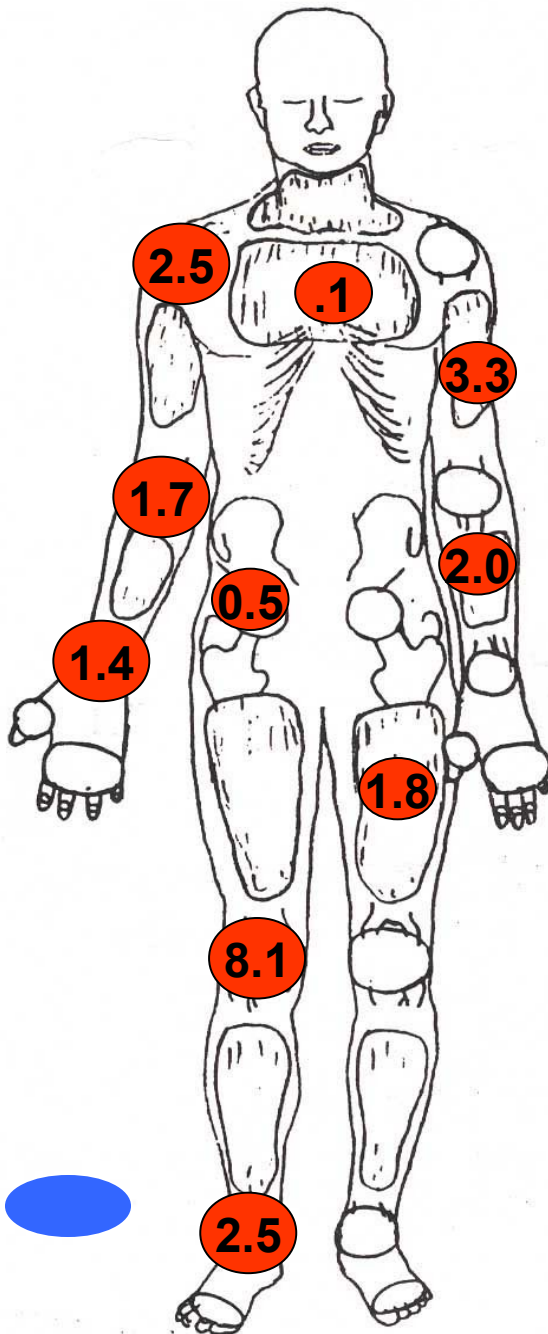
1245 with RMSD

Phase II and III

1152 cases (RR92.5%)

**BJD INDIA:NAN
MULTIREGIONAL
URBAN POPULATION
SURVEY FOR RMSD-
PUNE**

*Female
preponderance*



Standardized* Prevalence (Percentage) Of Current Pain At Various Sites(Indicated on A Human Manikin) In Patients From Pune Urban Survey

Note: *
prevalence
adjusted for
age-sex
distribution with
India population
census 2001

Category	PUNE (N=8145) (95% CI)	
	CRUDE	
Pain any site	14.1 (13.39, 14.92)	
Neck	2.2 (1.89, 2.54)	
Low back	5.5 (4.99, 5.99)	
Shoulder	2.5 (2.21, 2.91)	
Elbow	1.7 (1.39, 1.96)	
Hand	1.6 (1.36, 1.92)	
Wrist	1.4 (1.14, 1.67)	
Knee	8.1 (7.52, 8.72)	
Ankle	2.5 (2.19, 2.88)	
Feet	0.9 (0.68, 1.10)	

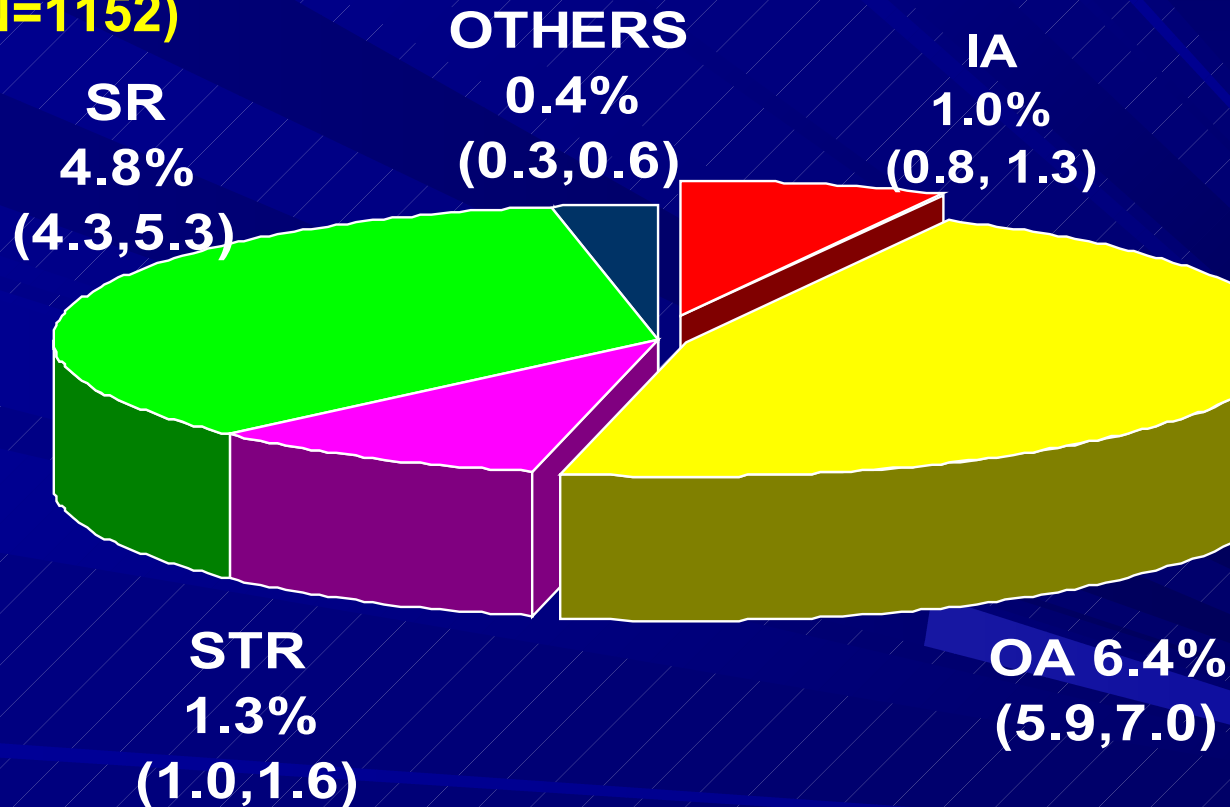
Standardized* Prevalence (Percentage) Of Current Pain At Various Sites(Indicated on A Human Manikin) In Patients From Pune Urban Survey

Category	PUNE (N=8145) (95% CI)	
	CRUDE	
Hip	0.5 (0.32, 0.63)	
Upper back	2.1 (1.78, 2.05)	
Calf	1.7 (1.47, 2.05)	
Heel	1.2 (1.00, 1.49)	
Thigh	1.8 (1.52, 2.10)	
Sole	1.0 (0.82, 1.28)	
Chest	0.1 (0.04, 0.19)	

Note: *
prevalence
adjusted for
age-sex
distribution with
India population
census 2001

PREVALANCE OF RMSD IN PUNE URBAN SURVEY (PERCENT, 95% CI)

PUNE (N=1152)



IA= Inflammatory Arthritis, OA= Osteoarthritis,

STR=Soft Tissue Rheumatism, SR=Symptom Related illness

Diagnostic break up

DIAGNOSIS	PUNE , N = 1152 (%)
RA	37 (2.7)
SSA	22 (1.8)
IAU	30 (3.0)
OA	526 (45.7)
STR	106 (9.2)
CDD	6 (0.5)
SR(IDS)	397 (34.5)
OTHERS	28 (2.4)

RA = Rheumatoid Arthritis SSA = Seronegative spondyloarthropathy
IA= Inflammatory Arthritis, OA= Osteoarthritis, CDD = Crystal
deposition disorders STR=Soft Tissue Rheumatism,SR=Symptom
Related illness

CRUDE POINT PREVALENCE RATE OF RMSD IN PUNE

n= 8145(95%CI)

RA	0.45 (0.32,0.63)
RA (ACR)	0.28 (0.18,0.42)
IA-U	0.37 (0.25,0.41)
SSA	0.27 (0.17,0.41)
AS	0.06 (0.02,0.14)
PSORIATIC ARTHRITIS	0.05 (0.01,0.13)
STR	1.30 (1.07,1.57)
IDS	4.87 (4.42,5.36)

CRUDE POINT PREVALENCE RATE OF RMSD IN PUNE

n= 8145(95%CI

OA	6.46 (5.93,7.01)
OA KNEE	5.54 (5.05,6.06)
OA CERVICAL SPINE	0.88 (0.69,1.11)
OA LUMBAR SPINE	2.38 (2.06,2.74)
PGOA	0.39 (0.27,0.55)
OA HIP	0.05 (0.01,0.13)
GOUT	0.07 (0.03,0.16)

LOGISTIC HURDLES

- NON FINANCIAL
- HUGE POPULATION SIZE
- COORDINATION OF VOLUNTEERS.,BRINGING CASES TO ACTUAL CLINICAL ASSESSMENT WAS A TOUGH TASK
- LACK OF PUBLIC AWARENESS AND MEDIA PUBLICITY
- MENTALITY OF NOT PARTICIPATING IN SURVEYS IN URBAN COMMUNITY

CONCLUSIONS

- PAINFUL RMSD IS A DOMINANT AILMENT SELF REPORTED BY URBAN COMMUNITY
- FEMALE PREPONDERANCE IS SEEN IN ALL CATEGORIES OF RMSD IN URBAN POPULATION
- MAJORITY OF URBAN CASES SUFFERED FROM OSTEOARTHRITIS, ILL DEFINED SYMPTOMS AND SOFT TISSUE RHEUMATISM
- LESS THAN 10% SUFFERED FROM INFLAMMATORY ARTHRITIS

ACKNOWLEDGEMENT



- BJD INDIA NAN
- ARCF-CRD
- PUNE MUNICIPAL CORPORATION
- CRD TEAM



Thank you....