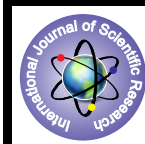


# Study of 50 Cases of Neuropathy in Type II Diabetes Mellitus



## Medical Science

KEYWORDS :

**Dr. Manish B. Patel**

ASSOCIATE PROFEEESOR, Department of medicine, Smt N.H.L municipal medical college and V.S general hospital. Ahmedabad-380028,Gujarat

**Dr. Alpesh Prajapati**

Resident Doctor (medicine) Department of medicine, Smt N.H.L municipal medical college and V.S general hospital. Ahmedabad-380028,Gujarat

**Dr. Vijay Ghodela**

Resident Doctor (medicine) Department of medicine, Smt N.H.L municipal medical college and V.S general hospital. Ahmedabad-380028,Gujarat

### ABSTRACT

*Study of 50 cases of diabetic neuropathy of type 2 DM patients having complication of diabetic neuropathy studied with clinical examination and other parameters. Conclusion showing sensory type of autonomic neuropathy 62%, sensory-motor type in 38% and autonomic neuropathy in 52%.*

### INTRODUCTION:

Long standing diabetes mellitus is usually complicated by some form of neuropathy which may be symmetrical or asymmetrical. It may be rapidly reversible, persistent symmetrical, focal or mixed. This is a study of 50 cases of neuropathy in type II diabetes mellitus.

### AIMS AND OBJECTIVES:

- (1) To study clinical presentation of diabetic neuropathy in type 2 DM.
- (2) To study biochemical parameters in diabetic neuropathy.
- (3) To study outcome of patients of diabetic neuropathy.

### MATERIALS AND METHODS:

50 patients of type 2 DM having diabetic neuropathy taken for study from august 2009 to November 2011. Detailed history, clinical examination including CNS with biochemical parameters like FBS,PPBS,HbA1c, CBC, ESR, RFT, SGPT, S.electrolytes, S.TSH, urine albumin, fundus, chest X-ray, USG kidney are seen in each patients with standardized protocol.

### OBSERVATION AND DISCUSSION:

AGE:

SEX:

Sex	Numbers
Male	31(62%)
Female	19(38%)

Age(yrs)	Numbers
<30	2(4%)
31-40	5(10%)
41-50	11(22%)
51-60	14(28%)
61-70	12(24%)
>70	6(12%)

### TYPE OF NEUROPATHY:

TYPE	NUMBERS
Sensory	31(62%)
Sensory-motor	19(38%)
autonomic	26(52%)

### Duration of DM:

Duration	Numbers
<5 years	14(28%)
6-10 years	13(26%)
>10 years	23(46%)

### PRESENTING COMPLAINS:

Numbness and/or tingling in limbs	45(90%)
Burning pain in feet	22(44%)
Dyspepsia/ flatulence	18(36%)
Ulcers and/or fissures in feet	18(36%)
Motor weakness of limbs	16(32%)
Vision problems	15(30%)
Giddiness	11(22%)
Decreased or increased sweating	10(20%)
Urinary hesitancy /retention/urgency/ incontinence	8(16%)
Cranial nerve involvement	4(8%)
Charcoat joint	4(8%)
Chronic diarrhea	3(6%)

### SUMMARY AND COCLUSION:

- ★ 50 patients of type 2 Dm having neuropathy, age group 41-70(74%), males more than females (M:F ratio 1.62:1) mainly from upper middle class(64%) were studied from Aug 2009 to Nov 2011.
- ★ Clinical presentation of neuropathy in type 2 DM was mainly sensory symptoms (tingling, numbness, burning feet in 94% patients) followed by autonomic symptoms (52%), motor symptoms(32%), vision problems(30%) and cranial nerve involvement(8%).
- ★ 62% patients had pure sensory neuropathy while 38% patients had sensory-motor neuropathy. Autonomic neuropathy seen in 52% patients.
- ★ 52% patients had small fiber neuropathy, 42% patients had small and large fiber neuropathy, 3% patients had large fiber neuropathy.

### REFERENCE

1. Harrison's principles of internal medicine vol. 1-2, 18th edition | 2. Joslin's diabetes mellitus- 14th edition | 3. Technical monogram diabetic neuropathy- Shashank R Joshi – 2003 | 4. Thomas PK: classification, differential diagnosis and staging of diabetic peripheral neuropathy. Diabetes 46 (suppl.2): 554-557-1997. | 5. Llewelyn JG et al (2005) diabetic autonomic neuropathies. In peripheral neuropathy, vol2, 1951-1991 (Eds Dyck PJ and Thomas PK) Philadelphia: Elsevier saunders. | 6. Dejong's the neurologic examination , 6th edition