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A GENDER BASED MARKET SURVEY ON PRESENT SCENARIO OF HYPERTENSIVE DRUGS IN ANANTAPURAMU

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ABSTRACT

Hypertensive drugs Anantapuramu Present Scenario



The goal of this study was to estimate the prevalence of hypertension and the number of people of all ages (both sexes) with hypertension and their medication. Hypertensive Patients profiles of 100 members were used for this study. Among these 100 patients forty five were males and remaining were females. In Age group study, we conclude that among 100 patients with age between 46-60, 63% are found to have hypertension. In Frequency of checking hypertension study 70% number of patients were checking every month. In gender study among 100 patients 53% were males & 47% were females. In type of Dosage Form study among 100 Patients 93% patients were using solid dosage form & 7% patients were using injections. In Single drug combination study 26% patients were using atenolol. In Combination of Drug study among 100 patients 6% patients were using (Amlodipine+Atenolol) combination another 6 % patients were using (Telmisartan+Hclthaizide) combination. In Duration of Disease study among 100 patients 79% patients were found be between between 1-5 years.In Hereditary study among 100 patients, 50% were found to be due Non-Hereditary, 21% were found to be due Hereditary remaining patients don't the reason for hypertension.

INTRODUCTION:

High Blood Pressure or Hypertension is one of the most important preventable causes of premature death worldwide. Even a blood pressure at the top end of the normal range increases the risk. As a consequence, high blood pressure is often called the "Silent Killer". There are two types. Primary or essential hypertension (97-98%) has no clear underlying cause but appears to be the result of interplay of complex genetic and environmental factors. Secondary hypertension (2-3%) is caused by a specific underlying mechanism usually involving kidneys or endocrine system. Arterial hypertension is a common and preventable cardiovascular risk factor, leading to about 1.7 million deaths/year worldwide. In India, raised blood pressure increased from 5% in the 1960s to nearly 12% in 1990s, to more than 30% in 2008. (Prabakaran, 2013; Dublin, 2011; Addo.J et al 2007)

MATERIALS AND METHOD: Materials:

Hypertensive Patients profiles were used for the study. Among these 100 patients forty five are males and remaining are females.

Methodology: (K.H.Ushadevi et al, 2013; Tanuja V 2010; Kannan and T.S.Satyamoorthy 2009)

A) Study type

Gender based study.

B) Study site: Out-patient Pharmacy (OPP), of some nursing homes & some areas in Anantapuramu, A.P.

C) Study duration

The study was carried out from 26th February to 1st march2014.

D) Inclusion and exclusion criteria

All the hypertensive patients who visited the OPP during the study period were enrolled in the study. In case if a patient has not taken medicines from our OPP, those patients were excluded.

E) Operational modality

Patients were enrolled in the study after getting a verbal informed consent. Patients were interviewed based on the study objectives. The details were entered in the structured patient profile form.

The filled patient profile form was analyzed for various parameters like age distribution and gender of patients, duration of hypertension, concurrent illness, family history of hypertension, number of drugs per prescription, average number of drugs prescribed, therapeutic category of drugs, anti-hypertension, class of types of preparations used, dosage form, duration of therapy and the prescribing indicators. (Mili Joshi, etal 2006) This is a short hypertensive patient survey. We collected data from patients with the following questionnaire.

1. Age

A. 1-15 B. 16-30 C. 31-45

- D. 46-60
- E. Above 61

2. Sex

- A. Female
- B. Male

3. How often is your BP Checked?

- A. Once in a month
- B. Once in 2month
- C. Once in 3 month
- D. Once in 4 year

4. How long have you had hypertension?

- A. Less than a year
- B. 1 to 5 years
- C. More than 5 years

5. Which Dosage form they are using?

- A. Tablets
- **B.** Injections
- C. Both

6. Which drug you are using for hypertension (Single drug)?

- A. Atenolol
- B. Amlodipine
- C. Telmisartan
- D. Losartan
- E. Hydro Chlorothiazide
- F. Methyldopa
- G. Hydralazine

7. Which drug you are using for hypertension (Combination of two Drugs)?

- A. Telmisartan & Hydrochlorothiazide
- B. Amlodipine & Atenolol
- C. Amlodipine & Telmisartan
- D. Lisinopril & Hydro Chlorothiazide
- E. Ramapril & Hydro Chlorothiazide
- F. Losartan & Ramipril
- G. Amlodipine & Lisinopril
- H. Amlodipine & Losartan

8. What is the family history of hypertension?

- A. Hereditary
 - B. Non Hereditary and
 - C. Don't know

Status		Systolic pres	sure	Diastolic p	oressure	Risk	
		mm /Hg		Μ	lm/Hg		
Normal		<130		<85		None	
Prehypertension		120 to 139		80 to 90		Slight	
Stage1(mi	ild)	140 to 159		90 to99	90 to99		n
Stage2(mo	oderate)	160 to 179		100 to 109		50% in 5y	<i>y</i> ears
Stage3(set	vere)	180 to 209		110 to 119		40% in 2y	/ears
Stage4(ve	ry severe)	>210	>120		Emergenc	сy	
						-	
		Age range	Male	Female	Total		
		0-15	0	0	0		
		16-30	0	0	0		
		31-45	5	9	14		
		46-60	24	39	63		
		above60	12	11	23		
		T	able 2: A	Age Group			1
			A = = = = =				
			Age gro	up			
			male	female			
					39		
				24			
			_	9		12 11	
	0 0	0 0	5				
	0-15	16-30	31	-45 4	6-60	above60	

RESULTS AND DISCUSSION: Table 1: Classification of hypertension based on blood pressure





Fig 2: Frequency of Checking

Table 4: Gender

Males	Females	Total
53	47	100

Table 5: Type of Dosage Form

Type of dose	Male	Female	Total
Injection	4	3	7
Tablets	49	44	93



Fig 3: Gender



Fig 4: Type of Dosage Form

Table 6: Single drug combination				
S.No	Drug name	No.of patient	Male	Female
1	Atenolol	26	18	8
2	Amlodipine	5	1	4
3	Telmisartan	14	6	8
4	Losartan	3	1	2
5	Hydrochloro thiazide	1	1	0
6	Methyldopa	1	1	0
7	Labetalol	3	3	0
8	Nevibilol	3	2	1
9	Clinidine	1	0	1
10	Amlosartan	1	1	0
11	Na nitroprusside	1	0	1
12	Hydralazine	1	0	1
13	Atorvastatin	4	2	2
14	Verapamil	2	1	1
	Total patients	66	37	29

Single drug combination



Fig 5: Single Drug Use

Combination of Drugs

combination of drug	Male	Female	Total
Amlodipine+Atenolol	2	4	6
Amlodipine+Telmisartan	2	1	3
Telmisartan+Hclthaizide	4	2	6
Ramipril +Hcl Thiazide	1	1	2
Losartan+ Ramipril	0	1	1
Losartan+Amlodipine	1	3	4
Lisinopril+ Hclthaizide	1	0	1
Amlodipine+Lisinopril	0	1	1
Losartan+Hclthiazide	1	0	1
Atenolol+Nevibilol	1	1	2
TOTAL	13	14	27

Table.7 Combination of Drug



Fig 6: Combination of Drugs

Duration of disease

Table 8: Duration of Disease

S.NO	YEARS	PATIENT NO
1	Less Than Year	0
2	1-5 Years	79
3	Above 5 Years	21
	Total	100



Fig 7: Duration of Disease

Hereditary &Non Hereditary

Table 9: Hereditary & Non Hereditary

Sex	Non Hereditary	Hereditary	Don't Know
Male	24	11	18
Female	26	10	11
Total	50	21	29





CONCLUSION:

From this market survey on few hypertensive patients we are concluding following. In Age group study, we conclude that among 100 patients with age between 46-60%, 63% are found to have hypertension. In Frequency of Checking hypertension study 70% of patients were checking every month. In gender study among 100 patients 53% were males & 47% were females. In type of Dosage Form study among 100 Patients 93% patients were using solid dosage form & 7% patients were using injections. In Single drug combination study 26% patients were using atenolol. In Combination of Drug study among 100 patients 6% patients were using (Amlodipine + Atenolol) combination another 6% patients were using Telmisartan and Hydrochlorothiazide combination. In Duration of Disease study among 100 patients 79% patients were found be between 1-5 years. In Hereditary study among 100 patients, 50 % were found to be due Hereditary remaining patients don't the reason for hypertension.

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