Table (1): Time differentials of headache

Character: range (x ± SD)	
Age (years)	19-23 (20.13 ± 1.25), median 20
Period of suffering (months)	0 – 72 (21.96 ± 17.75)
Long lasting of each attack (days)	1- 7 (3.27± 1.76)
No. of sinusitis attack \ year	0 – 8 (3.37 ± 2.787)

Table(2): Main anatomical abnormalities in rhinogenic headache cases

Abnormalities (n = 28 cases)	No.	%
DNS	4	14.2
DNS + ITH	3	10.7
DNS + Concha bullosa	3	10.7
DNS + nasal polyps	3	10.7
DNS + Concha bullosa + ITH	1	3.5
DNS + chronic sinusitis	2	7.14
ITH	2	7.14
ITH + chronic sinusitis	1	3.5
ITH + polyps	1	3.5
Concha bullosa	2	7.14
Haller cells	3	10.7
Total	28	100

Table (3): Rhinogenic headache; type, site, onset and course in anatomical abnormalities cases

Item, no. (col. %)		DNS	CB	Haller cells	ITH	Total
		16	9	2	10	37
Type	Dull				1	1 (2.7 %)
	Heaviness		3 (33.3 %)		3	6 (16.2%)
	Pressure	16 (100%)	6 (66.7 %)	2 (100%)	6	30 (81%)
Significance: P .032						
*Site of pain	Frontal	10	2		3	15 (42.9%)
	Glabellar		5		6	11 (29.7%)
	Periorbital	6	2	2	1	11 (29.7%)
# All cases had gradual onset and stationary course. * no statistically significant difference						

Table (4): Associated nasal symptoms in anatomical abnormalities rhinogenic headache cases

Item No. (%)	Total	DNS	concha	hallar	ITH	*p
	37	16	9	2	10	
Nasal itching						
Present	2 (5.4%)		1		1	.082
Sneezing						
Present	14 (37.8%)	5	4	1	4	.433
Running nose						
Present	10 (27%)	6	2	1	1	. 487
Nasal congestion						
Present	20 (54%)	8	3		9	.446
Nasal occlusion						
Present	23(62.1%)	11	2		10	.446
Bleeding nose						
Present	2 (5.4%)		1		1	.082
Post nasal discharge						
Present	8 (21.6%)	5	2		1	.575
Diminished sense of smell						
Present	6 (16.2%)	1	1		4	.516

Table (5): Associated extra nasal symptoms in anatomical abnormalities rhinogenic headache

Item No. (%)	*Total*	*DNS*	*concha*	*hallar*	*ITH*	**p*
	37	*16*	*9*	*2*	*10*	
Sore throat						
Present	***2 (5.4%)***	***2***				***.994***
Bad mouth odour						
Present	***8 (21.6%)***	***2***	***4***		***2***	***.271***
Chronic cough						
Present	***2 (5.4%)***	***2***				***.994***

Table (6): % of prevailed anatomical abnormalities in some studies

The study	*Country*	*year*	*S. size*	*DNS*	*CB*	*Hallar*	*ITH*
Tonai et al.	*Japan*	*1996*	*75*	*28*	*25*	*36*	*NR**
Pérez et al.	*Spain*	*2000*	*110*	*58.2*	*24.5*	*45*	*NR*
Mamatha H.et al.	*India*	*2010*	*40*	*65*	*15*	*17.5*	*NR*
Dutra et al.	*Brazil*	*2005*	*71*	*14.1*	*4.2*	*1.4*	*NR*
Mazza D et al.	*Italy*	*2007*	*100*	*29*	*11*	*5*	*NR*
Talaiepour A.R.et al.	*Iran*	*2005*	*143*	*63*	*35*	*3.5*	*30*
Mohammad A. et al.	*Pakistan*	*2015*	*77*	*26*		*9.1*	*24*
Mostafa H. Mohamed G.,	*Egypt; Minia*	*2012*	*40*	*50*	*27.5*	*12.5*	*NR*
Rashid A. et al.,	*Oman Sultan.*	*2014*	*40*	*60*	*49*	*24*	*28*
Mokbel et al.,	*Pakistan*	*2010*	*120*	*100*	*NR*	*NR*	*37*
Rai U.L. et al .,	*India*	*2018*	*50*	*100*	*NR*	*NR*	*NR*
Kanitha MS et al.,	*India*	*2017*	*65*	*26*	*44*	*NR*	*25*
Sudip	*India*	*2013*	*40*	*56*	*NR*	*NR*	*20*
Current study	*Egypt; Sohag*	*2019*	*104*	*57.1*	*32.1*	*7.1*	*35.7*

*** NR = not reported***