

## The Study of Antibiotic Resistance among *Haemophilus influenzae* Strain Isolated from Patient with Influenzae in Tehran

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**Background & Objectives:** *Haemophilus influenzae* is one of the major pathogenic bacteria causing paediatric infectious. This study was undertaken to determine the prevalence and antibiotic resistance in *H.influenzae* strains isolated from patient admitted to influenzae in several medical centers in Tehran.

**Methods:** The study included sputumsamples collected from several medical centers in Tehran in 2011. Sputum samples were homogenized and cultured in BHI medium, then were subcultured in *Haemophilus* specific medium under microaerophilic condition in 37°C for 48h. The isolates were future identified by biochemical tests. For Antibiogram was used disk diffusion methods.

**Results:** From 50 samples tested,22 and 28 were beloged to female and male, respectively. The 7 samples (14%) were positive for *H. influenzae*. Most antibiotic resistance and sensitivity were observed Penicillin (55.55%) and Erythromycin (88.88%) respectively.

**Conclusion:** The results of study showed that *H.influenzae* is one of the important cause of paediatric infectious in patient up than 40 years of age in Tehran . In Comparision with previous studies in our country , our results showed that amount of drug resistance was increased to Penicillin and amoxicillin antibiotic.

**Keywords:** *Haemophilus influenzae*; Drug Resistance; Sputum