

# **Adjunctive treatment with Aripiprazole for Risperidone –induced hyperprolactinemia**

**ParisaNiyari Khams, FatemehRanjbar,HomayounSadeghiBazargaani**

Psychiatry Department, RaziHospital , Faculty of Medicine, Tabriz University of Medical sciences

## **Abstracts**

### **Introduction**

Antipsychotics have been used for more than 50 years in the treatment of schizophrenia and many other psychiatric disorders. Prolactin levels usually increase in patients treated with Risperidone. Aripiprazole is a D2 receptor partial agonist. It is an atypical antipsychotic with low extrapyramidal symptoms. Since it acts as an antagonist in hyperdopaminergic conditions and as an agonist in hypodopaminergic conditions, it does not have adverse effects on serum Prolactin levels. The present study aimed to investigate the effect of Aripiprazole on Risperidone-induced Hyperprolactinemia.

### **Materials and Methods**

This before-and-after clinical trial was performed on 30 patients. The baseline Prolactin levels were measured in all patients candidate for treatment with Risperidone. In cases of elevated serum prolactin, Aripiprazole was added to their treatment. Serum prolactin levels were measured during the first week, second week, and monthly for at least 3 months or until prolactin levels became normal. Data were analyzed using STATA 11. The Survival analysis, skilmac method and Mac Nemar test were used in this study;

### **Results**

The mean age of participants was 30.8 years .The Prolactin levels of 23 individuals were normalized during the study. In terms of clinical symptoms, 25 (83.3%) patients were normalized during the study. The prolactin levels of most patients were normalized between the days 50 to 110. The median time of recovery based on normalization of prolactin was 84 days and the interquartile range was 29 days. In terms of changes in psychotic symptoms, 26 patients were psychotic at baseline and this number dropped to 2 at the end.

### **Conclusion**

The results of this study confirmed the effects of Aripiprazole in reducing Risperidone-induced Hyperprolactinemia and its following complications. Aripiprazole also led to

significant improvements in patients psychotic symptoms compared to prior to Aripiprazole consumption.

**Keywords:**Hyperprolactinemia, Aripiprazole, Risperidone, Psychotic disorder.