

We can conclude from these results that there is no effect for gender on the Mg serum levels. These results confirm previous studies that suggest that there is no effect of gender on Mg serum levels (Augusta CN *et al.*, 2006; Mohammed *et al.*, 2012).

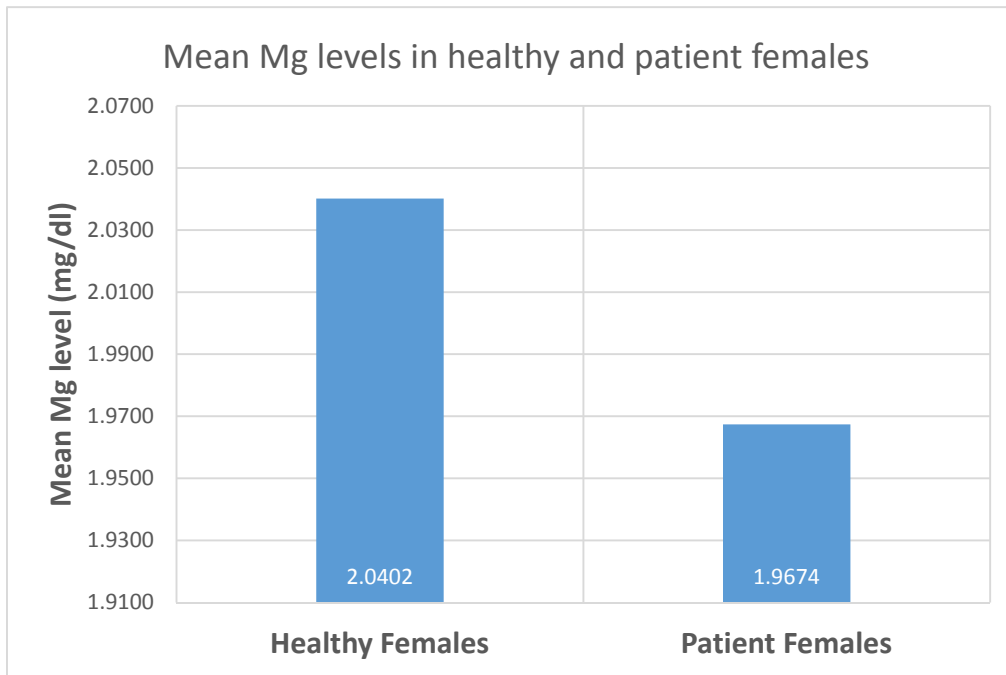


Figure 3.5: Comparison between mean magnesium levels in healthy and patients female

3.3 Effect of smoking on Mg levels

- No significant effect for subject smoking on the Mg serum levels (P values > 0.05). Both smokers and non-smoker, healthy or patient, have Mg serum levels within the normal range, and without any significant differences between healthy and patient subjects.
- Mg serum levels of patient smokers showed medium elevation compared to healthy smokers Mg serum levels (Cohen's $d = -0.2408$) (Table 3.5). While