

## **Evaluation of Food Effect on the Absorption of Clarithromycin using Physiological Modeling**

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### **Abstract:**

**Background:** Food may have an impact on the oral absorption of ibuprofen from gastrointestinal tract (GI) by affecting its dissolution rate or by inducing physiological changes in the GI tract.

**Aim :** is to evaluate the effect of FDA standard food on the in vitro release and disintegration of ibuprofen from immediate release tablet.

**Method:** In vitro disintegration and dissolution of ibuprofen 400 mg immediate release (IR) tablet in compendial media with/without the addition of homogenized FDA meal were determined.

**Results:** Prolonged tablet disintegration time and slower dissolution rates were shown in the presence of FDA meal (fed state) compared to the fast state (compendial media)

**Conclusion:** The intake of FDA meal with ibuprofen may help in reducing the side effects of ibuprofen however, it may decrease the therapeutic effect and the bioavailability of the drug