

European Congress on

## Pharma

August 13-14, 2018 Paris. France

Am J Pharmacol Pharmacother 2018, Volume 5 DOI: 10.21767/2393-8862-C1-003

## NANOEMULSION BASED INTRANASAL DELIVERY OF Risperidone for nose to brain targeting

Drashti G Pathak<sup>1</sup>, Shailesh T Prajapati<sup>2</sup> and Sarjak P Pathak<sup>2</sup>

<sup>1</sup>Parul Institute of Pharmacy and Research, Parul University, Gujarat <sup>2</sup>Shri Sarvajanik Pharmacy College, Gujarat Technological University, Gujarat

Reffect as compared to that of oral route. Solubility of drug was determined in different vehicles. Pseudo ternary phase diagram were generated using Acrysol K 150 as oil, tween 80 as a co-surfactant, and caproyl PGMC as a surfactant. The four formulations were prepared by the spontaneous emulsification method and were further characterized for their percentage transmittance, droplet size and zeta potential. Ex vivo diffusion study of the optimized batch was carried out using goat nasal mucosa. Histopathological study of the optimized batch was studied. Optimized formulation was found to possess the mean globule size 149 mm and zeta potential -17.3 mV. *Ex vivo* study revealed that at the end of 4 h, 93.76% of the dose was diffused successfully. In the histopathological study, formulation treated mucosa did not show any damage to the epithelium layer.

drashti72009@gmail.com