c. used to treat vestibular nausea and motion sickness. e.g. Meclizine and Diphenhydramine.
d. Used to suppress extra pyramidal side effects associated with certain antipsychotic drugs for example acute dystonia coma drug induced parkinsonism. It do so by reestablishing dopaminergic-Cholinergic balance

3. Following are some adverse effects of 1st generation antihistamines:
   a. Adverse effects of 1st generation antihistamines are more common and more severe in elders.
   b. As 1st generation antihistamines can cross blood brain barrier and have central effects so they are associated with drowsiness.
   c. 1st generation antihistamines block muscarinic receptors so they also have anticholinergic effects for example dry mouth etc.
   d. Due to Anti serotonergic effects 1st generation antihistamines may stimulate appetite and cause weight gain.
   e. 1st generation antihistamines can block A1 adrenergic receptors so they also cause dizziness and hypotension.
   f. 1st generation antihistamines may cause cognitive impairment and delirium especially in elders due to central antihistaminic And anti cholinergic effects. Hence, they may be contraindicated in elderly patients with pre-existing cognitive impairment.

➤ 2nd generation H1 antagonists:
   I. Examples are fexofenadine, cetirizine, and loratidine etc.
   II. 2nd generation antihistamines are used to treat allergies.
   III. They have less side effects then 1st generation antihistamines as they have less anti muscarinic, anti serotonergic and adrenergic effects.
   IV. 2nd generation antihistamines do not cross blood brain barrier so they have less sedation.