

~~The history of~~ ^{Pace} ^{Motion} ^{Sickness} ~~SMS studies~~

~~In this category of studies several areas~~ ^{related}
~~areas were being~~

To understand these SMS studies were based on the following understanding of SMS. It is a ^{typically} mild form of motion sickness which has several significant differences from acute motion sickness on earth. Earth M.S. can arise from a conflict between virtually any two major sensory inputs - such as vision and somatosensory ('seat of ^{the} pants') and a ^{standard} ~~regular~~ series of stimulus signals are sent first to the autonomic nervous system which produces pallor, ~~co~~ and, cold sweating &

malaise and to the vomiting center which
^{start}

produces first nausea & then vomiting.
 Signals of malaise & lethargy are sent to ^{upper} higher CNS centers where
 SMS appears to arise primarily from a ^{they} ~~reach~~ ^{consciousness}
^{distorted}

conflict between ~~the~~ signals from gravity sensitive
 otolith organs and normal signals from ~~the~~

the semicircular canals. There is little evidence for
^{seen in M.S. on earth}
~~traditional~~ ^{the} autonomic activity, i.e. no sweating

and flushing more often than pallor. There

G.I. system ~~appe~~ also appears to be affected

differently in that the normal stomach & upper

bowel activity is stopped, ~~and~~ usually $\bar{3}$ nausea,

and vomiting only occurs when the stomach

fills and sends a ~~sends~~ a signal to

the vomiting center. This produces a sudden

~~It is known that there is relatively~~
^{also}

little data ^{from} ~~on~~ people $\bar{c}$ SMS and $\bar{c}$

brief episode of vomiting usually & nausea.

This ~~previous~~ description of SMS is based largely on observation or data from a limited number of subjects, so ~~no~~ ^{as} of this op was a great opportunity to document aspects of SMS + also an opportunity to make two new measurements. In addition it provided an opportunity to study pharmacodynamics of a commonly used ^{medication} drug, a study of potential value in future treatment of SMS. Two tests were ~~add~~ included to note any effects on performance by SMS.

The rationale for the use of the various tests is given in the background to each test report. The integration and interpretation of the tests will be covered in the summary.