



A novel device is now available that offers an easy route for administration of medications or fluids via rectal mucosal absorption (also referred to as proctoclysis in the case of fluid administration and subsequent absorption)” Honasoge et al (2016).

Abstract:

The available routes of administration commonly used for medications and fluids in the acute care setting are generally limited to oral, intravenous, or intraosseous routes, but in many patients, particularly in the emergency or critical care settings, these routes are often unavailable or time-consuming to access.

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A novel device is now available that offers an easy route for administration of medications or fluids via rectal mucosal absorption (also referred to as proctoclysis in the case of fluid administration and subsequent absorption). Although originally intended for the palliative care market, the utility of this device in the emergency setting has recently been described. Specifically, reports of patients being treated for dehydration, alcohol withdrawal, vomiting, fever, myocardial infarction, hyperthyroidism, and cardiac arrest have shown success with administration of a wide variety of medications or fluids (including water, aspirin, lorazepam,

ondansetron, acetaminophen, methimazole, and buspirone). Device placement is straightforward, and based on the observation of expected effects from the medication administrations, absorption is rapid. The rapidity of absorption kinetics are further demonstrated in a recent report of the measurement of phenobarbital pharmacokinetics. We describe here the placement and use of this device, and demonstrate methods of pharmacokinetic measurements of medications administered by this method.

Reference:

Honasoge, A., Lyons, N., Hesse, K., Parker, B., Mokszycki, R., Wesselhoff, K., Sweis, R. and Kulstad, E.B. (2016) A Novel Approach for the Administration of Medications and Fluids in Emergency Scenarios and Settings. Journal of Visualized Experiments. November 9th.

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