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MODEL OF THE LARGE INTESTINE

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The present invention pertains to a model of the large intestine, including the rectal end, designed for instruction purposes.

The principal object of the invention is the provision of a device of this character which may be used to advantage particularly by teachers of nurses in demonstrating the proper mode of administering enemas. In the present practice of making rectal injections, considerable pain is often caused to the patient due to the lack of knowledge on the part of the nurse of the physical phenomena occurring within the intestine. In order to demonstrate to student nurses the various actions that occur within the intestine during an injection, I have constructed a glass model of the large intestine including the rectal end as well. Although glass is the preferred material for the device, any transparent material may be used.

The lower end of the model is covered by a cap having two apertures. One of these apertures receives the injection tube and the other aperture serves as an air vent for escape of the air displaced by the enema. The upper end of the model may be fitted with a cork so that chemicals or other substances may be introduced in the intestine, if desired, in order to demonstrate more accurately the reactions that take place within the intestine.

The invention is fully disclosed in the following description and in the accompanying drawings in which:

1. Figure 1 is an elevation of the device;
2. Figure 2 is a detail section of the rectal end;
3. Figure 3 is a detail section of the upper end; and
4. Figure 4 is a plan view of the lower end.

Reference to these views will now be made by use of like characters which are employed to designate corresponding parts throughout.

The model is formed as a tube 1 of glass or other transparent material having substantially the curvature of the large intestine, including also the rectal end 2. The major portion of the tube is formed with a series of connected curves 3 to resemble the actual configuration of the intestine. These curves may, however, be omitted and the tube formed perfectly smooth if desired.

The rectal end 2 is open and is covered by a cap 4 preferably of rubber. The cap has a pair of apertures 5 and 6, the former being provided to receive the injection tube 7, and the latter serving as a vent for the escape of air displaced from the intestine by the enema.

The upper or inlet end 8 is also open and normally fitted with a stopper 9. The stopper is removed when it is desired to deposit in the intestine substance resembling the usual contents when it is desired to study the effect of the enema on the contents of the intestine.

It will be apparent that this model constitutes a practical and effective device for demonstrating, particularly to student nurses, the actions occurring within the intestine during and as a result of the administration of enemas. By carefully observing and studying these actions, the student is enabled to learn the accurate method of making rectal injections, with the result that much suffering on the part of the patient will be avoided.

While a specific embodiment of the invention has been illustrated and described, it is to be understood that various alterations in the details of construction may be made without departing from the spirit of the invention as indicated by the appended claims.

Having thus fully described the invention, what I claim as new and desire to protect by Letters Patent is:

1. A model of the large intestine, including the rectal end, constructed of transparent material, said end being open, in combination with an injection tube, and means for supporting said tube in said end.
2. A model of the large intestine, including the rectal end, constructed of glass, said end being open, in combination with an injection tube, and means for supporting said tube in said end.
3. A model of the large intestine, including the rectal end, constructed of transparent material, said end being open and an apertured cap applied over said end.
4. A model of the large intestine, including the rectal end, constructed of transparent material, said end being open, a cap applied over said end, said cap having an injection opening and an air vent.
5. A model of the large intestine, including the rectal end, constructed of transparent material, both ends being open, a stopper for the upper end, and an apertured cap applied over the rectal end.
6. A model of the large intestine, including the rectal end, constructed of transparent material, both ends being open, a stopper for the upper end, a cap applied over said rectal end, said cap having an injection opening and an air vent.

7. A model of the large intestine, comprising a bent tube of transparent material, one of the ends thereof being open, and an apertured cap applied over said end.

In witness whereof I have hereunto set my hand.

MARIA LOUISA PARKER.