Fig. 1. Cross-section through the endotracheal tube just below the adaptor. The adaptor is invaginated, partially obstructing the lumen of the tube.

This infrequent problem is best avoided by being aware of the possibility and always inspecting endotracheal tubes before inserting them.

MITCHELL E. ZEBROWSKI, M.D.
Department of Anesthesiology
Hospital of the University of Pennsylvania
Philadelphia, Pennsylvania 19104
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Connections from Anesthetic Machine to Circle System Unsatisfactory

To the Editor:—The finding by Cooper et al.¹ that accidental endotracheal tube disconnection was the commonest “near miss” underlines the unjustified reliance which anesthesiologists place on the interference fit of taper cone connectors, although more positive locking devices have been described.² Endotracheal tube connectors are also commonly used to connect the fresh gas outlet of the anesthesia machine to the breathing circuit. These can become partially disconnected, resulting in air dilution or leakage, or bent so as to occlude fresh gas delivery. A further cause for concern is the unprotected rubber tubing usually employed to carry the fresh gas to the breathing circuit. Apart from external compression, the tubing can be occluded, especially when a curved connector pointing downwards is used when the carbon dioxide absorber unit is raised (fig. 1). The data of Cooper et al. should stimulate analysis of existing engineering designs for attaching fresh gas supply lines from machine to circle system, as well as connectors used for endotracheal tubes.

P. F. DOLAN, M.B., ChB.
Department of Anesthesiology
University of North Carolina
School of Medicine
Chapel Hill, North Carolina 27514

Fig. 1. Connector and tubing in possibly hazardous configuration.

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