



In-the-Patient Tube Clearing System

Quick, easy and effective technology to clear clogged tubes in the patient.



Tubes get clogged. It's as simple as that. With roughly 7 million feeding tubes used worldwide<sup>1</sup>, for feeding and decompression, the clogging rate is approximately 25%<sup>2</sup>. Actuated Medical developed the TubeClear System to help healthcare practitioners rapidly clear tubes without the expense and risk of tube replacement.

### How it Works

The TubeClear System works inside the feeding or decompression tube. Using proprietary mechanical motion, it clears the clog while the tube remains in the patient at bedside. This eliminates the need to remove and replace the clogged tube. The system is effective in clearing medication, feeding formula, ground food, and aspirate clogs.

### The TubeClear System Works in Minutes

#### Using the TubeClear System to Unclog a Nasoenteral Tube

| Method           | Number of Runs | Number of Runs Unclogged | Average Procedure Time |
|------------------|----------------|--------------------------|------------------------|
| TubeClear        | 30             | 30                       | 2.8 minutes            |
| Warm Water       | 30             | 26                       | 42.2 minutes           |
| Enzyme Treatment | 30             | 29                       | 57.1 minutes           |

Benchtop Study evaluated at AMI with Levin 14 Fr 48 inch long nasoenteral tubes. Half of the occlusions were made from 2:1 ratio of coagulated protein and ground medication. Half of the occlusions were made from 1:1 ratio of feeding formula and fiber.

### FDA Cleared and CE Marked for Use with NE, NG, G, and J Tubes<sup>3</sup>

The TubeClear System consists of a reusable Control Box paired with a single use Clearing Stem. Control Box Model 101 and Clearing Stem Models NE-1036, NE-1042, NE-1043, NE-1045, NE-1048, NE-1050, NE-1055, G-1008, G-1009, G-1010, G-1011, G-1012, and G-1014 are:

- + FDA Cleared for clearing occlusions / clogs in Feeding and Decompression Tubes in adult patients that have a Tube size of 10 to 18 Fr.
- + CE marked for clearing occlusions / clogs in Feeding and Decompression Tubes in children and adults of all ages that have a Tube size of 10 to 18 Fr.

**“ This is one of the best devices to come out in a long time to allow critical care nurses to do what they do best... care for their patients! ”**

+ Marcia Belcher, MSN, BBA, RN, CCRN-CSC, CCNS

**“ TubeClear has been a great tool. We used to spend exorbitant amounts of time trying to clear clogged tubes, we now can clear them in a minute or two. Easy, intuitive and functional – the perfect combination. ”**

+ Jim Mercer, RN, BSN

### Key Advantages

- + Works at bedside.
- + Reduces interruptions to feeding and medication regimens.
- + Reduces painful tube replacements<sup>4</sup> and potential re-hospitalizations.
- + Billing codes B4034, B4035, and B4036 applicable.
- + Potential savings of time and money – see our ROI Calculator at [TubeClear.com/ROI](http://TubeClear.com/ROI).

Learn more at [TubeClear.com/international](http://TubeClear.com/international)



## The TubeClear System Clearing Stem Models

### Nasoenteral and Nasogastric Tubes

| French Size (Fr) | Tube Length (cm) | Tube Length (in) | Model # | Stem Color |
|------------------|------------------|------------------|---------|------------|
| 10 - 18          | 91               | 36               | NE-1036 | Yellow     |
| 10 - 18          | 107              | 42               | NE-1042 | Grey       |
| 10 - 18          | 109              | 43               | NE-1043 | Purple     |
| 10 - 18          | 114              | 45               | NE-1045 | Orange     |
| 10 - 18          | 122              | 48               | NE-1048 | Clear      |
| 10 - 18          | 127              | 50               | NE-1050 | Blue       |
| 10 - 18          | 140              | 55               | NE-1055 | Green      |

**NE MODEL CLEARING STEMS HAVE WHITE HAND GRIPS AND STEM LABELS**

### Gastrostomy and Jejunostomy Tubes

| French Size (Fr) | Tube Length (cm) | Tube Length (in) | Model # | Stem Color |
|------------------|------------------|------------------|---------|------------|
| 10-18            | 20               | 8                | G-1008  | Yellow     |
| 10-18            | 23               | 9                | G-1009  | Grey       |
| 10-18            | 25               | 10               | G-1010  | Purple     |
| 10-18            | 28               | 11               | G-1011  | Orange     |
| 10-18            | 30               | 12               | G-1012  | Clear      |
| 10-18            | 36               | 14               | G-1014  | Blue       |

**G MODEL CLEARING STEMS HAVE BLACK HAND GRIPS AND STEM LABELS**

**EXAMPLE:** If the Patient has a Nasoenteral tube, 12 Fr, 109 cm (43 in) long, select Model Number NE-1043 (Purple). If the Patient has a Gastrostomy tube, 16 Fr, 23 cm (9 in) long select Model Number G-1009 (Grey). If the Patient has a Jejunostomy tube, 14 Fr, 30 cm (12 in) long, select Model Number G-1012 (Clear).

## HealthCare Savings from the TubeClear System

- + No x-ray or surgical intervention.
- + Patient remains in home or facility, works at bedside.
- + Nutrition and/or medication restored quickly.
- + Healthcare practitioners stay focused on patient care, not hardware issues.

These works are/were partially supported by the National Science Foundation Small Business Innovation Research (SBIR) grant No. 0923861, National Institutes of Health, National Institute of Child Health & Human Development SBIR grant No. HD065365 and Telemedicine and Advanced Technology Research Center (TATRC) at the U.S. Army Medical Research and Materiel Command (USAMRMC) grant Nos. W81XWH-11-2-0099 and W81XWH-11-2-0116. The views, opinions and/or findings contained in this work are those of Actuated Medical, Inc. and should not be construed as an official government position, policy or decision unless so designated by other documentation.

 Learn more at [TubeClear.com/international](http://TubeClear.com/international)



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## Fast Facts

### Control Box

- + Control Box is a reusable device.
- + Model 101 runs on 110 - 240 V AC power.

### Clearing Stems

- + Multiple Models for most NE, NG, G, and J tube sizes.
- + Stems are single use devices.
- + Rounded and flexible tips prevent tube damage.
- + Stems are color-coded for easy selection.
- + Collars on Stems serve to limit insertion depth of the Stem.
- + Labeling shows model number and selection criteria.

1. Botoman VA, Kirtland SH, Moss RL. A randomized study of a pH sensor feeding tube vs a standard feeding tube in patients requiring enteral nutrition. *JPEN J Parenter Enteral Nutr.* 1994;18(2):154-158.

2. L.M. Lord, NP, MS, CNSN, "Maintaining Hydration and Tube Patency in Enteral Tube Feedings", *Safe Practices in Patient Care*, Saxe Communications, 2012.

3. Nasoenteral (NE), Nasogastric (NG), Gastrostomy (G), and Jejunostomy (J) feeding and decompression tubes.

4. M. Farrington, D. Bruene, M. Wagner, "Pain Management Prior to Nasogastric Tube Placement: Atomized Lidocaine", *ORL - Head and Neck Nursing*, 2015 Winter, 33(1): 8-16.

