



## **The Purves Protocol Explained**

The Purves Protocol uses the MARS Bio-Med T-MACC system. It is a comprehensive process for cleaning dental evacuation lines and preventing the release of hazardous substances into the environment. It involves several steps:

1. **Enhanced Testing Schedule:** The protocol includes a more frequent testing schedule to ensure that the cleaning process is effective and meets North American regulatory requirements.
2. **Deep Clean with a Biological Line Cleaner:** A deep clean of the dental evacuation lines is performed using a specialized biological line cleaner. This helps remove up to 38% of Hg discharge and ensures the lines are thoroughly cleaned.
3. **MARS SuperTRAP Chairside Traps:** The protocol requires the use of MARS SuperTRAP chairside traps on all dental chairs. These traps capture 98% of solid material coming from the dental chairs.
4. **Complete Capture and Recycling:** All captured material, including trapped contaminants and debris, is collected, and sent to a facility for recycling or safe disposal. This ensures that the waste is properly managed and does not harm the environment.
5. **BOSS Neutral Procedure (if indicated):** In larger facilities or cases where the dental evacuation lines are heavily impacted with contaminated sludge, the BOSS Neutral procedure may be used. This procedure helps contain and treat the contaminated sludge until it can be completely recycled.
6. **BOSS Polisher (if necessary):** If the soluble mercury levels are found to be above the allowed limits, a BOSS Polisher may be used. This device helps remove soluble mercury from the wastewater, allowing the effluent to meet the mandated limits. The BOSS Polisher removes 99.6% of soluble and solid mercury.

The specific steps and procedures of the Purves Protocol can be customized and adjusted based on the facility's needs and regulatory requirements.