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CE Course Handout

The Magic of Air – A Subgingival Air Polishing Workshop

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American
Dental
Hygienists'
Association

The Magic of Air – Managing Biofilm Differently with Subgingival Air Polishing

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Low-Abrasive Air Polishing Devices:

www.Hu-Friedy.com/EMS/biofilm – research, technologies, videos, articles

www.Hu-Friedy.com/EMS/Powerrequest – request office demo

www.Acteongroup.com/us – technologies, videos

www.Coltene.com - technology

Biofilm Disclosing Options:

www.Plaguehd.com - Disclosing Toothpaste

www.TePe.com - Plaqsearch two-tone disclosing solution

HVE Solutions:

- www.Youngdental.com - Vento-O-Vac 3.75" long HVE tip
- www.Amerdental.com - Widemouth HEV Tip Insert & 6" HVE tip (cut in half) & short On/Off HVE valve
- www.theblueboa.com - Saliva ejector hose & Hygoformic saliva ejector
- www.Isolitesystems.com - Isovac isolation/HVE system
- www.Dryshield.com - Isolation HVE system
- www.zirc.com/mrthirsty - Isolation HVE system
- www.qualityaspirators.com - TASS silicone tubing adapter set, ST-HVE surgical to Hi-volume adaptor, STS soft tip screens

Clinical Take-Away Messages:

1. Subgingival plaque removal at interdental sites using a low abrasive air polishing powder. J Periodontology 2003 Petersilka GJ, Tunkel J, Barakos K, Heinecke A, Häberlein I, Flemmig TF.

2. Subgingival plaque removal in buccal and lingual sites using a novel low abrasive air-polishing power. J Clin Periodontology. 2003. Petersilka GJ, Steinmann D, Häberlein I, Heinecke A, Flemmig TF.

3. Subgingival debridement efficacy of glycine powder air polishing. J Periodontology. 2007. Flemmig TF, Hetzel M, Topoll H, Gerss J, Häberlein I, Petersilka GJ.

4. Effect of glycine powder air polishing on gingiva. J Clin Periodontology. 2008
Petersilka GJ, Faggion Jr CM, Statmann U, Gerss J, Ehmke B, Haeberlein I, Flemmig TF.

5. Subgingival Plaque Removal Using A New Air-Polishing Device . J Periodontology.
2010. Moëne R, Deécaillet F, Andersen E, Mombelli A.

6. Randomized controlled trial assessing efficacy and safety of glycine powder air
polishing in moderate to deep periodontal pockets. J Periodontology. 2012. Flemmig TF,
Arushonov D, Daubert D, Rothen M, Mueller G, Leroux BG.

7. Subgingival debridement of periodontal pockets by air polishing in comparison with
ultrasonic instrumentation during maintenance therapy. J Clin. Periodontology 2011.
Wennström JL, Dahlen, Ramberg P.

8. A paradigm shift in mechanical biofilm management? Subgingival air polishing: A new
way to improve mechanical biofilm management in the dental practice. Quintessence
International. 2013. Bastendorf KD, Becker C, Bush B, Einwag J, Lanoway C, Platzer U,
Schmage P, Schoeneich B, Walter C, Wennström JL, Flemmig TF, Sculean A.

9. Tooth surface comparison after air polishing and rubber cup: A scanning electron
microscopy study. J Clinical Dentistry 2016. Camboni S, Donnet M.

10. A systematic review on the effects of air polishing devices on oral tissues. International J of Dental Hygiene 2016. Bühler J, Amato M, Weiger R, Walter C.

11. A systematic review on the patient perception of periodontal treatment using air polishing devices. International J of Dental Hygiene 2016. Bühler J, Amato M, Weiger R, Walter C.

12. Adjunctive glycine powder air polishing for the treatment of peri-implant mucositis: An observational clinical trial. International J of Dental Hygiene. 2015. De Siena F, Corbella S, Taschieri S, Del Fabbro M, Francetti L.

13. Efficacy of air polishing for the non-surgical treatment of peri-implant diseases: A systematic review. J Clin Periodontology. 2015. Schwarz F, Becker K, Renvert S.

14. Efficacy of glycine powder air polishing in comparison with sodium bicarbonate air polishing and ultrasonic scaling – a double blind clinico-histopathologic study. International J of Dental Hygiene. 2015. Simon CJ, Munivenkatappa Lakshmaiah Venkatesh P, Chickanna R.

15. Evaluation of an air-abrasive device with amino acid glycine-powder during surgical treatment of peri-implantitis. Quintessence International 2014. Toma S, Lasserre JF, Taïeb J, Brex MC.
