

To evaluate the efficacy and effectiveness of n-butyl 2-cyanoacrylate glue (Tru Seal) in closure of oral & maxillofacial laceration & surgical incisions**Praveen Kumar Singh**

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Effective wound closure is critical for minimizing wound complications and preventing wound dehiscence. The various wound closure techniques include staples, traditional nylon and skin sutures, subcuticular sutures and skin adhesives. Currently topical skin adhesives are frequently being used. Most of the adhesives used are cyanoacrylates short and long chain (butyl and isobutyl cyanoacrylates) derivatives. Cyanoacrylates (CAC) are tissue adhesives exhibiting the objectives of achieving coaptation of surgical wound borders, and thus eliciting healing. This material is bacteriostatic and biodegradable, and exhibits suitable tensile strength. Cyanoacrylates glue results in cutaneous closure in less than 5 minutes. It should not be used for deep wound closure or in any patient sensitive to cyanoacrylates. Wound closure using tissue adhesives require careful attention to be given to closure of subcutaneous layer to ensure optimal approximation and tension on the edges of the wound. Cyanoacrylates glue polymerize rapidly within

seconds following contact with proteinaceous surfaces to form strong and flexible bonds. This chemical property makes them extensively used in different surgical application. Prior to application of cyanoacrylates, the tissue surface should be cleaned and dried as much as possible. Protection of the surrounding tissues from accidental contact with cyanoacrylates can be done by covering them by gauze, or chloramphenicol 1% ointment.

Speaker Biography

Praveen Kumar Singh has studied bachelor of dental surgery from Purvanchal Institute of Dental Sciences, Gorakhpur, India. He was the State President (Uttar Pradesh) of Medical Students Association of India from October 2012 to January 2014. He was also a Junior Resident Doctor (Maxillofacial Surgery) from June 2014 to June 2017 in JSS University, Mysore, Karnataka. He had also been the organizing chairman of CONNEXON 2014 and 2015 respectively. Currently, he is the council member of Association of Oral and Maxillofacial Surgeons Of India, from November 2015 and also the vice president of Indian Association of Dental Students from February, 2015 to present.

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