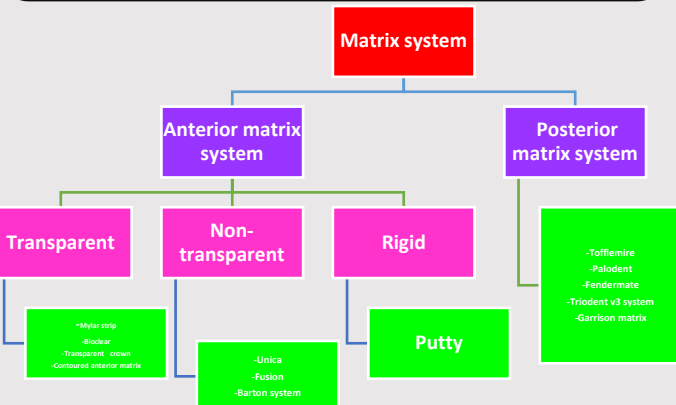


MATRICES- GAURDIANS OF RESTORATIONS

Matrixing is the process of constructing a temporary wall that runs in the opposite direction of the axial wall to surround the lost tooth structure .
"Matrix" is a tool that holds the restoration in place in the tooth while it sets It was introduced in the year 1871 by Dr. Louis Jack.

Purpose : Shape the Restorative Material: It ensures that the filling material is properly shaped and contoured to match the natural anatomy of the tooth.
Prevent Overhangs: Helps in shaping the material correctly so that it doesn't extend beyond the natural outline of the tooth.
Achieve Proper Contact: The matrix system helps in ensuring that the new filling has proper contact with adjacent teeth, preventing food impaction and improving overall function.

Ideal requirement of matrix: It should have ease of application, ease of removal, provide proper proximal contact and contour, and should be cost-effective and confine the restoration .



The successful rehabilitation of a proximal surface due to missing tooth structure requires meeting several essential criteria, including proper anatomical contour, accurate contact areas, marginal adaptation, and correct marginal ridge placement. Visualization of the existing tooth structure before restoration is key to reconstructing both the tooth's form and its functional relationship with the surrounding tissues. Failure to adhere to these criteria can negatively affect the tooth periodontal complex.



BIOCLEAR MATRIX They have excellent cervical adaptation, superior to flat Mylar strips, preserve the gingival papilla, have easy matrix selection, and each matrix's incisal tab indicates the proper orientation.



UNICA ANTERIOR is an easy and suitable matrix and is cost-effective. Unica anterior's curved shape responds to the various morphologies of anterior teeth and allows for simultaneous restoration of the proximal and cervical margins, even using rubber dams and/or gingival retraction cords, considerably reducing the chair time.

ANTERIOR MATRIX

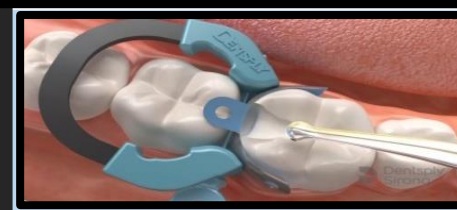


TRANSPARENT CROWN;

When tooth tissue has been lost from many surfaces, generally as a result of cavities or trauma, they are traditionally used for primary full coronal restorations. They are frequently employed in the development of microdont incisors as well. They can offer a relatively simple method to obtain a greater aesthetic which can then be quickly fixed if they break down again in the future .



FUSION MATRIX : The Fusion Anterior Wedge is utilized to help preserve this ideal anatomical position by ensuring a tight seal at the cervical third from facial to lingual.



PALODENT MATRIX matrix and ring system utilized a very thin (0.01-mm), contoured sectional matrix together with custom fitted wedges and metal rings, employing tension between the teeth after placement of the matrix . This technique effected the separation of the adjacent teeth for improvements in the acquisition



TRIODENT V3 : Nickel-titanium ring design with plastic tine grips, together with custom wedges and Wedge Guards for acquisition of improved proximal contact surfaces

POSTERIOR MATRIX



GARRISON Dental Strata-G Matrix System is a sectional matrix system that is designed to provide reliable, tight **contacts** and easier, more predictable contours in posterior restorations.



FENDERMATE MATRIXSYSTEM, introduced in 2008, on a simulated preparation. The system includes a contoured sectional matrix and a custom plastic wedge to simultaneously separate adjacent teeth and contain the restorative material.