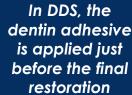








It was 1^{st} introduced in the early **1990** by **Pashley et al** which involves applying a dentin-bonding agent (DBA) to <u>freshly-cut dentin</u> immediately after tooth preparation and before making an impression







<u>OptiBond FL-</u>

Etchant- 37.5% phosphoric acid
Primer-HEMA,PAMM,
Adhesive-TEG-DMA
Filler type- Barium glass
Filler load- 48%
FL- Fluoride
(4th generation bonding agent)

In IDS,
Dentin adhesive
applied
immediately after
tooth preparation
and cured

Benefits:-

IDS is a procedure

which is done on a vital

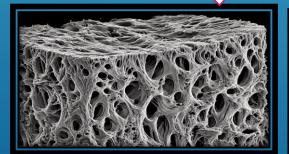
tooth, generally for

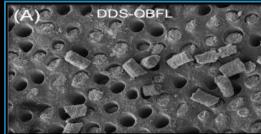
indirect restoration.

- Enhancing the bond strength
- ✓ Decreases post operativesensitivity
- Reduces bacterial microleakage



Hence an ideal surface is prepared for bonding the restoration with resin cements







These are clinical and microscopic results showing better <u>dentinal interfaces</u> after the IDS in comparison to DDS. Studies has shown that <u>IDS enhances the bond strength</u> with less degradation with time, as compared to DDS(Delayed Dentin Sealing)