

## Perbaikan preparasi saluran akar yang terbentuk ledge pada gigi premolar bawah

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### Abstrak

The use of instruments, such as files and reamers, to open the orifice and cleaning-shaping procedure, in a curved canal in excess of 20-degree angle without precurving instrument and irrigation may form a ledge in the canal. Treatment failure may result due to an inadequate cleaning at the apical third of the canal. This failure may be prevented by eliminating the ledge-correction of the curved canals. The purpose of this case is to highlight the importance of careful use of endodontic instruments to avoid ledging. Therefore knowledge of tooth morphology and the use of files in curved canals is an important factor.