

# PORCELAIN VS METAL CROWNS

## BY THE NUMBERS

YOU NEED A DENTAL CROWN? YOU HAVE OPTIONS. HERE'S THE SCOOP ON DENTAL CROWNS, BY THE NUMBERS.



**70 POUNDS**  
PER SQUARE INCH  
THE FORCE EXERTED BY BACK MOLARS WHEN CHEWING

**1889**

DR. CHARLES HENRY LAND PATENTS THE ALL PORCELAIN JACKET CROWN

**TODAY**

**Late 1950s**

PORCELAIN FUSED TO METAL CROWNS DEVELOPED BY ABRAHAM WEINSTEIN

**92.8%**  
OF ALL PORCELAIN CROWNS WERE STILL IN PLACE 10 YEARS AFTER INSERTION.



**6%**

OF ALL PORCELAIN CROWNS WERE REPLACED AT AN AVERAGE OF

**6.6 YEARS**

THE MOST COMMON REASON FOR REPLACEMENT:

**CERAMIC CROWN FRACTURE**

**38 MILLION**

THE NUMBER OF "INDIRECT FIXED RESTORATIONS"

I.E. CROWNS AND OTHER CUSTOM TOOTH REPLACEMENTS MADE IN A LAB, WERE PLACED IN U.S. PATIENTS IN 2011.

## TYPES OF THE POSTERIOR CROWNS PLACED IN

**1997**

**61%**

**2010**

**45%**

PFM

**29%**

**47%**

ALL PORCELAIN



**KLEMENT  
FAMILY DENTAL**

### SOURCES

- 1 - <http://query.nytimes.com/gst/fullpage.html?res=9503E3DF103FF932A3575BC0A9609C08B63>
- 2 - Lindbergh, by A. Scott Berg <http://bit.ly/29kv0Zm> and <https://www.dentalaegis.com/cced/2010/05/ahistoryofdentalceramics>
- 3 - <http://www.ncbi.nlm.nih.gov/pubmed/24331848>
- 4 - [http://jada.ada.org/article/S00028177\(14\)611788/abstract](http://jada.ada.org/article/S00028177(14)611788/abstract)
- 5 - <http://leeannbrady.com/practice-of-dentistry/all-porcelain-posteriors-or-pfm>