

# DENTURE BASE MATERIALS

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# WHAT IS A DENTURE BASE ?

It's that part of a denture which rests on the oral mucosa and to which teeth are attached, to provide for comfort, aesthetic, and fundamentally accurate functions mostly in retention and efficiency.

# IDEALISTIC FEATURES





## A. PROPERTIES

- 01 Accuracy of adaptation
- 02 Density
- 03 Thermal conductivity
- 04 Strength, oral cleanliness

05 Biocompatibility ~

06 Potential future relining as close as possible

07 Low cost

## B. FUNCTION

The masticatory function by **supporting** the artificial teeth and effecting the **transfer** of occlusal forces.

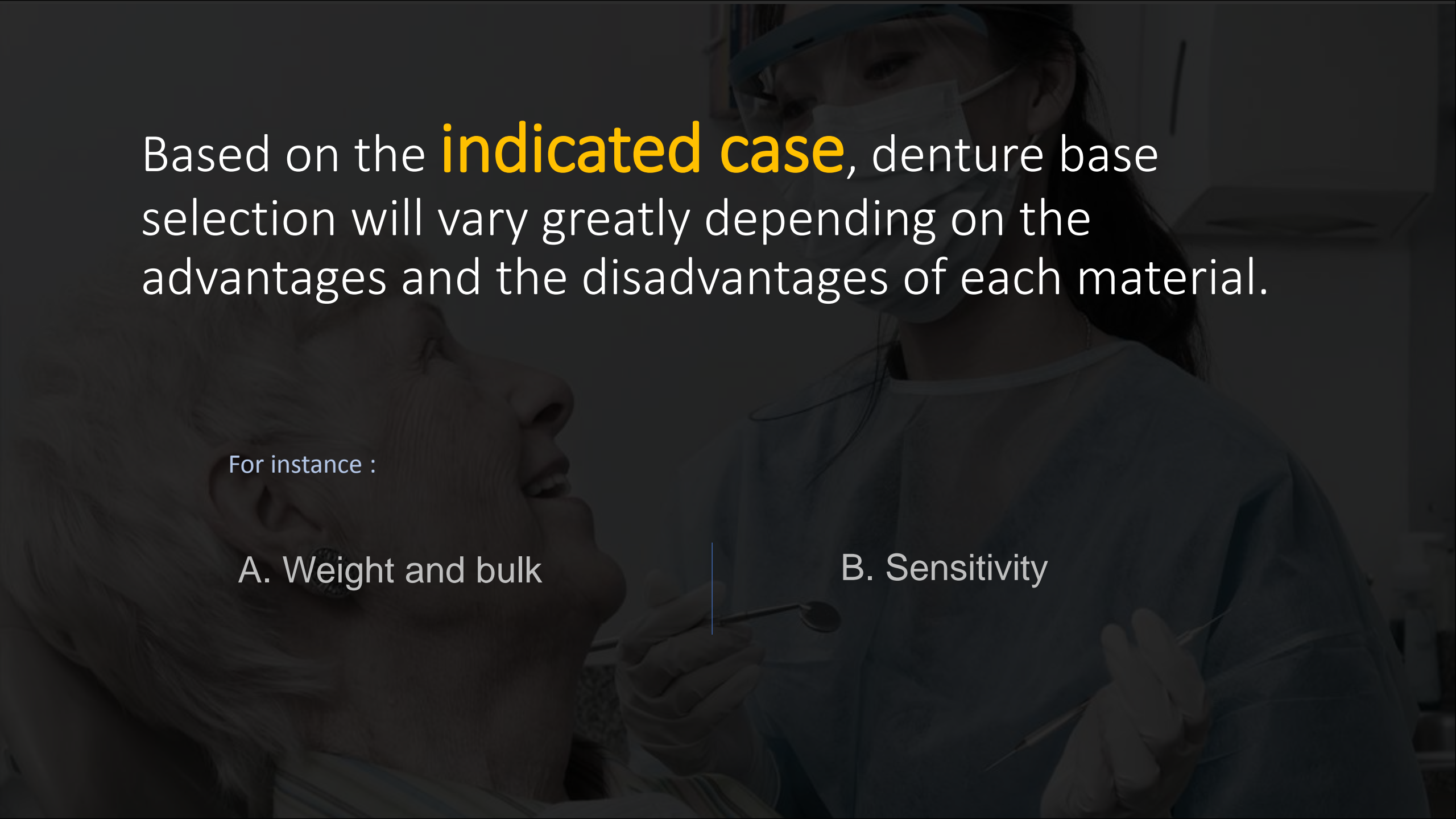
# TYPES OF DENTURE BASE MATERIALS



Metal

Acrylic

Metal -  
Acrylic

A background image showing a dentist in a clinical setting, wearing a mask and gloves, examining a patient's mouth with a dental mirror. The image is dimmed to serve as a backdrop for the text.

Based on the **indicated case**, denture base selection will vary greatly depending on the advantages and the disadvantages of each material.

For instance :

A. Weight and bulk

B. Sensitivity

# METAL DENTURE BASE

## INDICATIONS

1. All clinical non-aesthetics situations
2. Deep bite cases
3. Condensed inter maxillary spaces where a thick base cannot be used.
4. Acrylic allergy

## ADVANTAGES

1. Good biocompatibility,
2. Good mechanical properties.
3. Proper transmission of sense of taste and heat, providing a natural feel for the patients.

## DISADVANTAGES

1. Patients allergic to metal <rare>
2. Lack of proper extension in buccal shelf area.
3. AESTHETICS



# ACRYLIC DENTURE BASE



The acrylic resin material is considered an aesthetic denture base and is preferable to patients mainly for of its natural appearance.



## INDICATIONS

- Distal extension cases where relining is required frequently
- Patients allergic to metal.

## ADVANTAGES

- Ease of repair and manipulation
- Adequate strength
- Low cost
- Light weight
- Satisfactory color.

## DISADVANTAGES

- Inadequate mechanical properties
- Poor thermal conductivity
- Low impact strength
- Can only be used as temporary  
Replacement in most cases.
- Irritant





# METAL – ACRYLIC DENTURE BASE

## INDICATIONS

1. Aesthetics
2. Strength

## CONTRA-INDICATIONS

1. When relining is necessary



THANKS FOR  
LISTENING

Hope you enjoyed

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