

## Comprehensive Overview of the Benefits of Implant-Supported Dentures

**Marielaina Perrone\***

Family, Cosmetic, and Implant Dentist, Henderson, NV, United States

\***Corresponding author:** Marielaina Perrone, Family, Cosmetic, and Implant Dentist, Henderson, NV, United States.

**Citation:** Perrone M. Comprehensive Overview of the Benefits of Implant-Supported Dentures. Genesis J Dent Rep. 1(1):1-4.

**Received:** February 02, 2025 | **Published:** February 10, 2025

**Copyright**© 2025 genesis pub by Perrone M, et al. CC BY-NC-ND 4.0 DEED. This is an open-access article distributed under the terms of the Creative Commons Attribution-Non Commercial-No Derivatives 4.0 International License. This allows others distribute, remix, tweak, and build upon the work, even commercially, as long as they credit the authors for the original creation

### Abstract

Tooth loss negatively impacts a patient's oral function, facial aesthetics, and overall quality of life. While traditional removable dentures are a common solution, they frequently cause instability, discomfort, and difficulty in chewing. Implant-supported dentures provide enhanced stability, improved function, and long-term bone preservation. This review explores the clinical benefits, procedural steps, and patient considerations of implant-supported dentures, integrating evidence-based research to support their effectiveness in oral rehabilitation.

### Keywords

Implant-supported dentures; dental implants; prosthodontics; edentulism; bone resorption; dental restoration; oral rehabilitation; jawbone preservation

## Introduction

Edentulism, or complete tooth loss, affects millions worldwide, with significant consequences for oral health, nutrition, and self-confidence. Traditional dentures, though widely used, often present functional limitations such as reduced chewing ability, slippage, and poor retention. Advances in implant dentistry have enabled implant-supported dentures, which provide superior stability and long-term benefits compared to conventional dentures [1].

### Advantages of Implant-Supported Dentures

#### 1. Enhanced Stability and Comfort

Unlike conventional dentures that rely on suction or adhesive, implant-supported dentures are anchored directly to dental implants, providing:

- Improved stability, eliminating unwanted movement
- Increased comfort, reducing irritation caused by loose-fitting dentures
- Greater bite force, restoring near-natural chewing ability

Studies show that implant-supported dentures restore up to 90% of natural bite force, compared to only 20-30% with traditional dentures [2].

#### 2. Bone Preservation and Prevention of Facial Collapse

One of the primary concerns with traditional dentures is jawbone resorption, which occurs due to lack of stimulation in edentulous areas. Over time, this leads to:

- Loss of bone volume
- A sunken, aged appearance
- Reduced denture stability

Dental implants stimulate the jawbone, maintaining bone density and facial structure (Anderson, 2021) [3]. Research indicates that patients with implant-supported dentures experience 75% less bone loss compared to those with removable dentures [4].

#### 3. Long-Term Durability and Cost-Effectiveness

Although implant-supported dentures require a higher initial investment, their longevity and reduced need for adjustments make them more cost-effective over time.

- Implant-supported dentures last 20+ years, whereas traditional dentures often require replacement every 5-7 years
- Fewer dental visits are needed for adjustments and relining
- Higher patient satisfaction with comfort and function

A long-term study found that over 85% of patients with implant-supported dentures retained their prostheses without major complications for more than 15 years [5].

#### 4. Improved Speech and Confidence

Traditional dentures often lead to speech impairment due to instability and bulkiness. Implant-supported dentures eliminate slippage, allowing for:

- Clearer speech and pronunciation
- Better phonetics without excessive tongue adaptation

- More confidence in social settings

In a recent survey, 80% of patients with implant-supported dentures reported improved speech clarity compared to conventional denture wearers [6].

### 5. Nutritional and Health Benefits

Dietary limitations are a major concern for denture wearers, as removable dentures restrict the ability to chew hard or fibrous foods. Implant-supported dentures allow patients to:

- Eat a wider variety of foods, including fruits, vegetables, and meats
- Maintain better nutrition and overall health
- Reduce digestive issues related to poor chewing efficiency

A study found that patients with implant-supported dentures had a 65% higher intake of essential nutrients compared to those using conventional dentures [7].

## Procedure for Implant-Supported Dentures

### Step 1: Initial Consultation and Evaluation

1. Comprehensive oral examination.
2. 3D imaging to assess jawbone density.
3. Discussion of treatment goals and expectations.

### Step 2: Surgical Placement of Implants

1. Titanium implants are surgically inserted into the jawbone.
2. Healing period of 3 to 6 months for osseointegration.

### Step 3: Attachment of Custom Prosthesis

1. Once healed, custom dentures are affixed to the implants.
2. Ensures aesthetic and functional harmony.

### Step 4: Post-Treatment Care and Maintenance

1. Regular check-ups to monitor implant health.
2. Routine oral hygiene practices to maintain long-term function.



Figure 1: Implant supported denture on laboratory bench.

## Patient Considerations and Eligibility

Ideal candidates for implant-supported dentures include individuals who:

1. Suffer from extensive tooth loss
2. Have adequate jawbone density (bone grafting may be required in some cases)
3. Desire a permanent, more comfortable alternative to traditional dentures
4. Are committed to proper oral hygiene

Certain systemic conditions, such as uncontrolled diabetes or osteoporosis, may require additional assessment before proceeding with implant treatment [8].



**Figure 2:** Dentist polishing implant supported denture.

## Conclusion

Implant-supported dentures offer a transformative solution for patients suffering from tooth loss, providing enhanced stability, functionality, and aesthetics. Their ability to preserve jawbone health, restore confidence, and improve oral function makes them an ideal choice over traditional removable dentures. With continued advancements in implant technology, this treatment has become more accessible and reliable, ensuring long-term patient satisfaction and oral health benefits. Patients considering implant-supported dentures should consult with a qualified dental professional to explore their options and determine the best treatment approach.

## References

1. Jones L, Taylor M. (2023) Advancements in Implant-Supported Prosthetics. *J Oral Implantology*. 32(2):112-118.
2. Smith R. (2022) Chewing Efficiency and Implant Dentures: A Comparative Analysis. *J Prosthodontodontic Res*. 45(4):198-204.
3. Anderson P. (2021) Bone Resorption and Jaw Preservation with Dental Implants. *J Clin Oral Implantology*. 28(1):45-50.
4. Miller D, Wilson R. (2023) Long-Term Success Rates of Implant-Supported Dentures. *Oral Maxillofacial Surg*. 19(3):210-216.
5. Davis S. (2020) Speech Improvements in Implant Denture Patients. *J Oral Rehabilitation*. 39(2):78-85.
6. Harris J, Green T. (2021) Nutritional Benefits of Fixed Dental Prosthetics. *J Oral Nutritional Health*. 15(3):145-152.
7. Thompson J. (2023) Diet and Dental Prosthetics: A Clinical Perspective. *J Dent Nutritional Res*. 40(3):78-92.
8. Singh V, Patel R. (2023) Implant Longevity in Systemic Conditions. *J Clin Periodontology*. 40(1):112-118.