Introduction
Dental implantation is a prosthesis process for missing teeth and missing a part of jawbone. This prosthesis method is a modern concept developed since the mid-1960s, but in recent years their use has become much more widespread. This process, as will be explained, has a vital aspect.

Implantation process is tooth jute prosthesis because of the direct reliance of the teeth on the jawbone and this idea had been presented by the world of Dr. MISCH (C.E.MISCH). Dr. Misch has very important principles and rules on dental implantation in the mid-1980s where consider as essential concepts for any other ideas.

Dental implantation was considered a major turning point in dentistry field and oral health. This science ensures the rehabilitation of the jaws functionally and aesthetically. Dental implants have largely surpassed the traditional dental prosthesis that seemed unable to provide effective patient services.

Methods of prosthesis
1. Previous prosthesis formula: Is called the removable prosthesis.
   • Weakness of stability within the mouth - which causes the suffering pain and trauma and these ongoing trauma often leads to severe trauma as results.

   The psychological problems by patient’s feeling of aging - and the subsequent risks and painful conflicts of the patient’s personality.

   Face loss caused by loss of teeth and loss of physical bone of bone (BONE ATROPHY). It is known that the speed of bone absorption (Resorption Bone) increased after extraction. The mobile device does not resemble natural teeth even morphologically.

   The uncompleting of chewing process and its implications for nutritional value and digestion has a dangerous effect on the patient health.

   • The mobile prosthesis devices are unable to transfer the forces moving to the jaw bone - natural teeth by the transfer of these forces contribute to the process of bone construction and re-bone formation and maintain the bloody perfusion of the jaws.

   The removable prosthesis the possibility of good perfusion.

   • The denture itself is the center of infection because of the curiosity that affects the acryl and looks under the microscope in the form of pumice.

   In the study of the anthrax variant, we see a problem of staphylococcal (STAPHYLOCCAL), which is highly effective in causing joint diseases and inflammation of the heart [1].

2. The second form of prosthesis: Is called fixed prosthesis.

   Disadvantages of this method:
   • Weaken the adjacent teeth through the process of preparation and remove a wide layer of dental tissues.
   • An excessive tautological force that is loaded abnormally to the adjacent teeth - because the bridge undergoes to the tympanic borne forces by the Teeth pillars only and this causes ligaments around the teeth to increase their thickness and in results all of this leads to severe damage to the mandibular bone.
   • The bridge itself is a cause’s putrescence shelter that requires special oral care.

It remains to review the concept of destruction and construction of bone in terms of functionality - bone structure is based on number of factors, including functional.

As osteoblast and osteoporosis are incompatible, chewing leads to active the bone structures (knowing that blankets are severely needed because the bone age of bone cells in the jaws is three years - chewing by natural teeth is the best solution. The worst is chewing by the dentures - the least bad chewing is by bridges but no comparison between the natural teeth and the bridges.

What is the role of dental implants?
The fact that dental implants are closest to the nature of teeth, despite the existence of important differences such as the absence of periodontal ligament in alveolar implants, is the resource of bone cells and bone marrow. However it was finally proved that the bone surrounding the implant grows similar to that next to natural teeth according to the construction and deconstruction theory.

Return to dental implantation concept (Implantology)
Implantation is an insert of implant (a body very similar to the tooth root made of biologically neutral titanium) in the jawbone body. The transplant is followed by a period of time during which
bone healing is achieved i.e., bone dys-function, a period of three months for the Mandible and six months for the Maxilla. It should also be noted that the period needed may be prolonged when the need for grafting bone. Dental implants may often require accurate surgical procedures and advanced experience.

For example, Sinus Lifting is performed when bone missing in the upper posterior region and the transfer of the lower nerve (Nerve Transposition) when an severe absorption of bone had been done on the lower jaw.

We also conduct the process of bone splitting to be more in its width, which provides sufficient thickness to receive the implant and it is known that the implant has conditions for bone formation including surrounded thicknesses. To achieve these conditions, we must use fillers or bone grafts (such as hydroxyapatite, Collagen), as well as self-grafts. Autograft is the most capable of bone restoration. Because the organic reactions to the taste material are immune reactions. In the Autograft do not show any immune response because the immune system recognizes the taste as homogeneous with its genetic structure, which is personal [2].

In contrast, the immune response is induced to destroy the bone-mediated response, Cell-Mediated Response, by T-lymphocytes. We can take the graft from multiple areas inside or outside the mouth. From inside the mouth, there are areas ready to give good bone size, such as chin (chin) or nasal spine or any area that can be taken without affecting the vitality of the area. It is out of the mouth to have multiple areas [3].
The shoulder area --- the pelvic area --- and some use the bones of the skull. We are likely to mix the multi-origin Autograft -made, and artificial grafts to restore the implant perimeter [3].

**Platelets Rich Plasma (PRP)**

Platelets Rich Plasma (PRP) is a natural blood clot with a high concentration of blood platelets (94%). Red blood cells are 5%, Leukocyte 1% which in turn increases concentrations of growth factors.

It is contains 94% red corpuscles, 5% platelets and less than 1% Leukocytes.

Since blood clotting is a nucleus to initiate the occurrence of all the functions of soft tissue healing and tissue regeneration.

Depending on the new ratios in the PRP compound, they increase the effectiveness of regeneration and early recovery of surgery.

**Figure 7:** Sticky bone.

**Figure 8:** Applying sticky bone.

**Growth factors derived from Blood platelets.**

1. Platelets derived growth factors:
   - PDGF / PDGEaa / PDGFbb. PDFab. These growth factors are more present during healing wounds.
2. Transforming growth factors:
   - TGFβ1. TGFβ2. These factors are growth factors derived from Blood platelets. It can role as a stimulant of the cellular response and can form bone or cartilage.
4. Epithelial Growth Factors (EGF).

It has a limited effect on the basal cells of the skin and the Mucosa [4].

**How does PRP work in soft tissues?**

Platelets-rich plasmas (PRP) rely on stimulating cells in soft tissues, including fibroblast cells, to release collagen.

**Platelets-rich plasmas (PRP) work in:**

- Forming a three-dimensional network and release growth factors from Leucocytes
- Chemo-attraction of macrophages and resident stem cells
- Stem cell mitosis proliferation
- Differentiation stem cell

In our surgical field we use PRP in all prosthetic surgeries

1 - Sinus lifting for dental implants.
2 - Mix with grafts in different ways and from my view after many experiences, in order to improve bone Osseo- integration in the new region, the better way is the sticky bone.
3 - After the extraction of the third molar affected areas to improve healing.
4 - Periodontal disease after dredging and grafting of bone.
5 - Preserving the top of the alveolar after extraction. Improve the bone healing after implantation of teeth by diving the implant body in the PRP.

**Figure 8:** Dental implant with graft sticky bone.

**Back To evaluate dental implants:**

One year after implantation with a good functional condition; no pain or movement in the implant, in addition to safety of radial means the success of the transplant.

The transplant patient should pay attention to critical health issues:

1 - General disease: On the previous convictions can be any case of transplantation and perhaps the main problem is diabetes and today, despite suffering and difficulty, but when the possibility of controlling diabetes.

We can transplant and transplant patients to be transparent about any health injury and inform the dental specialist about his or her health.

2 - The biggest problem is Implantation - from the level of oral care to the Bruxism, which can be cause of failure.

**Result and Discussion**

Growth factors play a major role to repair or generate damaged tissue. Most of growth factors are in blood plasma and platelet. So Platelet concentrates contains sufficient growth factors such as platelet-derived growth factors (PDGF), transforming growth factor (TGF-β), Insulin-link growth factor (IGF-I), epithelial growth factor (EGF), vascular endothelial growth factor (VEGF),
basic fibroblast growth factor (bFGF). PRP has widely been used in the dental field such as sinus augmentation, ridge augmentation, periodontal regeneration and soft tissue healing. However the effect of PRP is controversial. According to one systemic review on the effect of PRP, The beneficial effects of PRP in the treatment of periodontal defects is evident but evidence for beneficial effects of PRP in sinus elevation appeared to be weak [5].

References