The process of dental implant diagnosis and treatment planning is a complex and meticulous journey that forms the foundation for successful implant procedures in restorative dentistry. This comprehensive approach begins with a thorough assessment of the patient's medical and dental history, including factors like systemic diseases, medications, allergies, and previous surgeries. A clinical examination and radiographic evaluation further aid in understanding the patient's oral health and bone quality.

Once the patient's condition is comprehensively understood, a customized treatment plan is crafted, considering the number, position, and angulation of implants, implant system selection, and potential adjunctive procedures like bone grafting or soft tissue grafting. Risk assessment is crucial in identifying and mitigating potential complications, while patient education and informed consent ensure the patient's active involvement in their treatment decisions.

Advanced digital technology, surgical guides, and precise implant placement techniques enhance the accuracy and predictability of the procedure. A healing period allows for osseointegration, and the prosthodontic phase leads to the creation of the final implant-supported prosthesis.

Long-term monitoring and follow-up appointments underscore the commitment to the patient's well-being, ensuring the ongoing health of the implant-supported restoration. Ultimately, this chapter emphasizes the importance of a patient-centric, multidisciplinary approach to dental implant diagnosis and treatment planning, with precision and a dedication to optimal outcomes at its core.