

Special Feature

Optimizing the delivery and outcome of implant dentistry with computer software utilization

By Dr. David A. Gelb

Implant dentistry has gained universal acceptance within the dental community as a new technology supported by long-standing research from which it has evolved. Today, implant procedures are expanding in their clinical indications with the development of new hardware geometries, surface textures and restorative components, and ever-changing protocols to support implant treatment planning and esthetic and functional outcomes previously thought unobtainable.

These developments have posed both an opportunity and challenge to the implant community. Many of these protocols and hardware utilizations are ever changing in their execution over differing periods of healing time. Consequently, they have not been supported with the same comprehensive research as the implant procedures that preceded them. This has created a need for a tool that would help the practicing clinician manage, track, and coordinate the implant process, and provide ongoing clinical research.

Virtual implant coordinator

Among the software solutions developed to serve this need is The Implant Tracker™. This software module is specifically designed to help manage, optimize, and grow an implant practice and act as a virtual implant coordinator and clinical research investigator in the background of an implant practice (see Figure 1, at right).

From the first time that a patient visits a dentist for examination and consultation, the patient's treatment objectives may be recorded. This treatment plan will be deleted from the patient's record only after all the procedures indicated for that patient have been completed.

At the Stage I surgical appointment, all the details associated with that procedure are recorded with drop-down menu choices that the clinician has established within his or her office, as shown in Figure 2 (bottom left):

- the patient's medical history,
- implant size and manufacturer,
- implant location,
- number of times the site was used, and

Figure 1

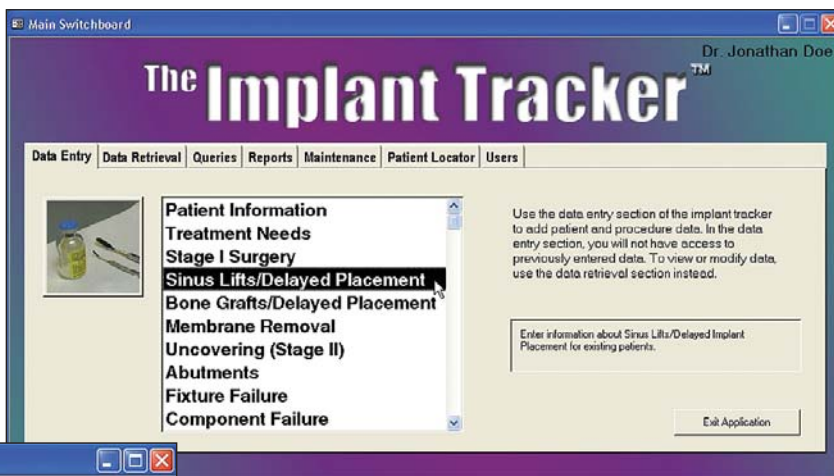
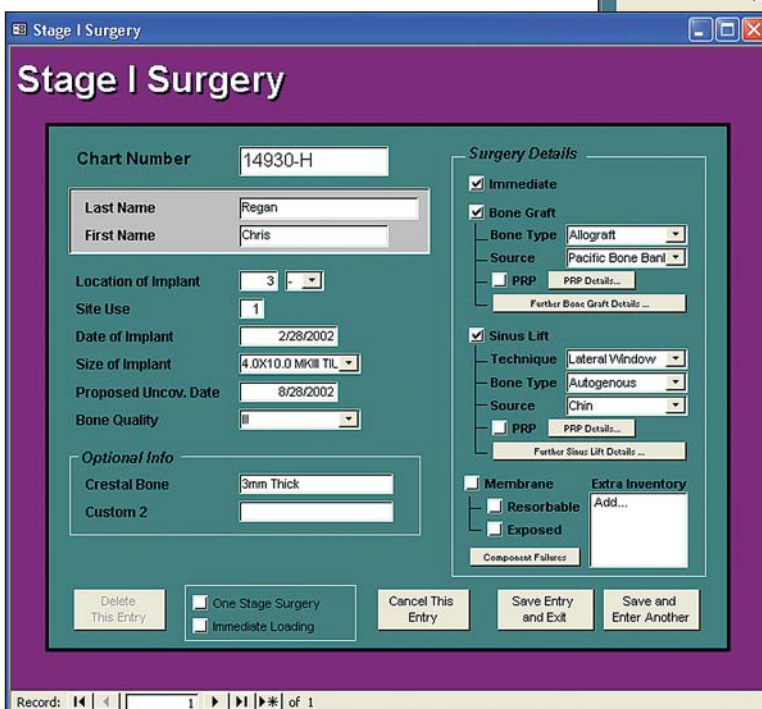


Figure 2



- the choice of immediate implant, one stage procedure or immediate loading.

Additional menu choices include surgery details, also shown in Figure 2:

- sinus lift both simultaneous or delayed,
- bone graft both simultaneous and delayed,
- bone graft source and details,
- PRP details,
- membrane details,
- sinus lift bone graft details,

and many other clinical parameters under which the implant was placed.

Reports alert clinician

The program then prompts the clinician to expeditiously complete the implant sequence. Specifically designed

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