

Master

Diagnostic Model™



MDM® - the Multi-Dimensional Communication Tool

There are so many things to communicate and understand when a doctor, patient and laboratory work together to restore the patient's dental aesthetics and function.

The patient must know exactly how her smile will look and function, and understand the value of pursuing comprehensive restorations rather than choosing a piecemeal plan.

The doctor must know that the lab has understood his directions for aesthetics and that they have designed the case to maximize bio-functionality. If there are specific preparation

needs to insure the viability of the restoration, the lab must effectively convey that information to the doctor.

The lab must be sure that it understands what the doctor has asked it to produce, which should reflect specifically what the patient is expecting. The lab must have specially trained personnel who know how to bio-engineer a successful case.

This process used to be referred to as "pre-planning." Now, with Valley Dental Arts' Master Diagnostic Model®, it has literally become "master planning".

MDM® - the Master Plan and Patient Consult

By using a Master Diagnostic Model® in the patient's case presentation, the patient can see, in true-to-life color, how the planned restoration will enhance her smile. When the doctor

her smile line requires ten restorations rather than six, or she may require preparatory crown lengthening, to attain the level of aesthetics she is expecting.



The doctor presents the MDM® in a consult.

has supplied quality color photographs of the patient (intraoral and full face), shade guide selections, and a comprehensive case worksheet to Valley Dental Arts, the lab can create an MDM® that combines the characterization, shade, shape and tissue color into a masterpiece.

Oftentimes, after beginning the process of an MDM®, Valley Dental Arts finds the case might be more aesthetically successful if additional teeth, or processes, are involved in the restoration. An MDM® can objectively show the patient that



Varying tissue colors are matched to patient photographs.

When a doctor takes a facebow and supplies measurements to VDA, and also supplies detailed models which include all tooth and gum structure, specially trained technicians at VDA will use their expertise to bio-engineer bone and tissue enhancements, occlusion and optimal implant placement into the MDM®. In an implant case, additional implants may be needed, or a combination case may present itself as the best solution. Whatever the case requirements, using the MDM® as a multi-dimensional communication tool insures precise communication between doctor and patient.



The patient's smile may appear natural with minimal restoration.

The patient can see that six anterior veneers may look good when she smiles, but be compromised when she chews or talks. Not only can the doctor more easily move the patient toward comprehensive restoration, but the doctor has also achieved,



The doctor shows how bio-functionality is compromised.

medico legally, a proper and complete pre-treatment master plan. The full impact of this point can more readily be understood when considering a complex case involving implants, precision removable appliances, or crown and bridge.

MDM® Preparation Guides

Depending upon the case, a Master Diagnostic Model® is delivered with a prep model and/or a vacuum stent.

A multi-unit veneer, or veneer and crown case, would include a prep model. This model, duplicated from the model that Valley Dental Arts prepped in the lab to construct the MDM®, can be referred to by the doctor. The prep model will show measurements and characteristics of the preparation work needed to insure a viable restoration.

At this time, lab personnel may also recommend brand name porcelains that are more applicable to the patient's tooth structure. Many of these materials require minimum margin depths or specific angulation, made evident on the MDM®.

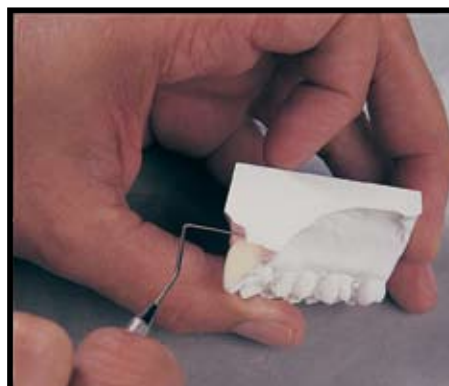
The MDM® itself can be used as a preparation guide to determine the need for bone and tissue grafts. By using a

periodontal probe, the doctor can measure the depth from the MDM® tissue surface to existing bone and tissue. Implant and combination cases will include a vacuum stent and may also include a prep model. By applying the vacuum stent, filled with provisional mixture, to the patient, the doctor can produce a three dimensional representation of needed bone and tissue.

The vacuum stent can also be used as a surgical stent to determine proper placement and angulation of implants. The pre-treatment planning phase of implant treatment is the most important phase. All too often, routine steps are overlooked or ignored so that the case can be started. This can lead to a compromised surgical and/or prosthetic result. The MDM® technique was devised, and is utilized to assure that a complete understanding is reached of what the entire case involves, from the surgical perspective, the restorative perspective, the lab's perspective, and the patient's perspective.



A prep model shows preparation needs.



A probe measures needed bone grafts.



The vacuum stent shows needed regeneration.

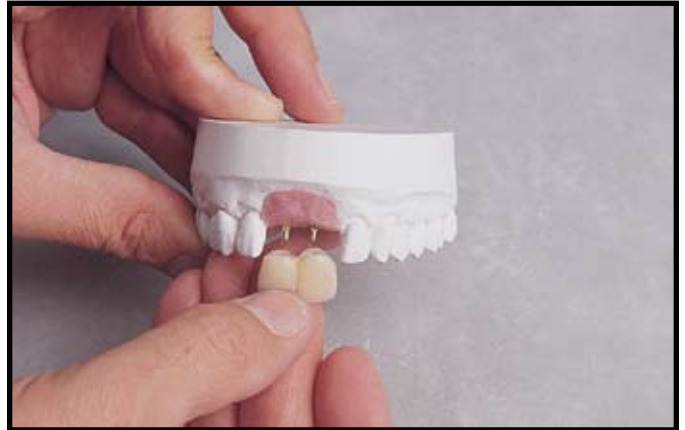
MDM® Provisionals - Aesthetics Plus

The patient can walk in to the office for extensive prep work and walk out with the smile they wanted. There are a number of ways to accomplish this feat, each applicable in a different



The Master Diagnostic Model® shows detailed characterization.

The temporaries can be worn for as long as it takes to be assured that the patient is comfortable. At this time, patients can be checked for canine guidance, protrusion and occlusal



Provisionals can be placed on temporary abutments.

situation. If the patient expects her provisionals to appear completely natural, as if the case had already been completed, then use Virtual Temps™ from Valley Dental Arts. Virtual Temps™ are pre-made provisionals that VDA has produced from the Master Diagnostic Model®. However, they are fully accurate in shading, characterization and coloration. They have the appearance of her eventual, permanent restorations. The doctor could also manufacture this artistry at his own practice, but the time and material investment is considerable.



The supplied silicone mold cuts chairside time.

If the doctor produces the provisionals, a silicone mold is provided with the MDM®. Since the MDM® is made with very detailed characterization, when the silicone mold is filled with provisional material and placed on the patient's prepped teeth, the resulting provisionals are exquisite in detail. Provisionals can also be made for temporary abutments in an implant case.

harmony. Phonetics should also be checked. Ideally, patients will approve the aesthetics of the case at this time.

During this process, and on subsequent provisional recheck appointments, chairside modifications of the case can be made. When the process is finally completed, and both patient and doctor are comfortable with the results, a silicone mold of the perfected provisionals should be taken. This, and a patient photograph should be returned to Valley Dental Arts.



Occlusion of temps should match the MDM®.

Valley Dental Arts can then produce the final restorations with absolute certainty of the doctor's, and the patient's, expectations. The final results will reflect a perfect process of communication between the lab, the doctor and the patient – perfect communication made possible only with the use of a Master Diagnostic Model® from Valley Dental Arts.



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