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Digital Smile Design

3) The other advantage of video is that you can provide the lab with some dynamic parameters for them to evaluate a patient's smile and speech.. 9) The remaining fragments were removed prior to restoring Each tooth was restored separately before moving on to the next.. Should the patient decide to treat more teeth at a future date, the same design may be used if significant changes have not been made (Figs.. 12 & 13) Fig 93D mock-up used as a prep guide Fig 10Isolation of individual tooth to perform bonding protocol.. The mockup was created using an A1 shaded bis-acryl resin (Tempsmart – GC America) that was not bonded into place, but stayed secure long enough to allow the patient a chance to evaluate her smile (Figs.. By taking a series of high quality digital photographs and videos, we can show you beforehand what your new smile would look like.. However, we can use these protocols to also execute simple everyday dentistry as well.. A procedure like this is typically performed by “free-handing” the shape using direct composite bonding.

What if we could convey more information in a simple, effective manner to allow the lab to better understand what the patient's condition is without someone having to meet the patient? As technology continues to evolve we now have the advantage of digital workflows.. 6) The patient was brought back for her treatment appointment and the diagnostic stent was used to provide an intra-oral “mock-up” to show the patient what the contours of the new restorations might look like.. For those that continue to use their lab, the process is simple and can allow accurate and predictable results in less time.. 2) By using high resolution video on an iPhone, it's possible to extract individual photographs for the smile design.. 7 & 8) A wall mirror was used to give the patient an idea of what the new smile would look like from “conversation distance.. 1) She was interested in having new composites placed with improved contours and balanced shading.. Dr Shah has a proficiency certificate in Esthetic Dentistry from the University of Buffalo (SUNY).

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This also allows for facial esthetics to be addressed The records may then be shared with the appropriate specialists to make treatment planning more effective.. We have been exposed to many great interdisciplinary examples of digital smile design cases that involve full mouth restorative.. It was planned using a Digital Smile Design (DSD) protocol and all lab procedures were digitally created.. These are combined with a digital impression (True Definition scanner – 3M Dental) to create a smile design proposal and treatment guide (Fig.. The planning of this case was performed using a Digital Smile Design (DSD) protocol rather than conventional methods.. 11) Memosil – Heraeus Kulzer The clear matrix allowed the composite to be placed with sufficient adaptation to prevent voids and cure through Each tooth was restored sequentially in a similar manner and then finished and polished at the same time (Renamel – Cosmedent-Clinical Research Dental).. Although there are some offices that have cad/cam technology and software to create their own digital smile design proposals, the majority doesn't have the full technology.. The protocol is simple and involves a few specific photographs or videos that can be taken on an iPhone or digital SLR.. Mylar matrices were placed between individual preparations prior to bonding (Fig.. Traditionally, impressions and a bite record are taken and sent to the lab Information is conveyed on a lab prescription to ask for a diagnostic wax-up based on the parameters requested to achieve the patient's goal for treatment.

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Fig 11Clear PVSmatrix Fig 12Retracted view of final restorations Fig 13Full face smile of final restorations.. Nowadays, photos might be provided to the lab so they have a better visualization of what the facial esthetics are like and how those results may be optimized.. ”Fig 4Digital smile design creation using the DSD protocol Fig 5Virtual rendition of the 2D smile design prior to 3D processing.. Most people know how to use a handheld phone and as more continue to adopt digital scanners, the need for time-consuming impressions, plaster and wax will become far less necessary.. He is a member of Catapult Education, the industry's

leading educational bureau.. For that reason, accurate communication is essential to minimize remakes or chair time if the diagnostic wax-up is significantly different than expected.

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These digital workflows are predictable and easy to implement with the help of an experienced lab.. The use of a stent or guide can facilitate a more predictable result Fig 1 Failing restorations on teeth #12-22.. 10) To simplify placement of the composite a clear matrix material based on the 3D design was used (Fig.. Fig 8 Full face view of Intra-oral “mock-up” based on the DSD protocol The mock-up was kept in place and used as a preparation guide to provide even reduction based on the desired outcome (Fig.. Digital Smile Design (DSD) starts with you As a Digital Smile Designer, we use the latest technology to design a smile that harmonises with your physical characteristics, your personality and your character.. However, creating symmetry and proportional restorations can sometimes be challenging.. Fig 6 Printed model based on the 2D to 3D DSD protocol Fig 7 Bis-acryl resin being placed inside stent for intra-oral “mock-up”.. As one gets comfortable with simple restorative cases the DSD protocol may be used for more advanced cases.. The following is a clinical case of an everyday bonding procedure that many general practitioners might perform on a regular basis.. OH Oral Health welcomes this original article About the Author Dr Paresh Shah maintains a private practice in Winnipeg, Canada with a focus on implant, cosmetic and interdisciplinary care.. A short video of the patient talking as well as doing some chewing and excursive movements provide the lab with valuable information that often is hard to convey in writing.. Through photography, video and impression scanners we can perform similar procedures using digital smile design protocols.. Using videos, photographs, and digital mock-ups, dentists and orthodontists create a treatment plan is based on a thorough analysis of the patient’s dental.. Fig 2 Digital scan of maxillary arch with TrueDefinition scanner Fig 3 DSD video and photo series.. Six simple views were used to create a digital diagnostic wax-up from the lab (Fig.. Digital Smile Design (DSD) is a unique and exciting new planning tool that allows a dental provider to digitally plan, manipulate, and share a plan for a patient’s future smile.. The communication is fast as it can be done via a secure email portal The use of a digital protocol can simplify the procedure and communication with the lab.. The video, photos and digital impression were used by the lab (Aurum Group–Calgary, AB) to create a 2D proposal or a “digital diagnostic wax-up” (Figs.. The digital impression and photos can be superimposed with a conebeam image to help plan implant cases.. It serves multiple purposes from treatment planning, communication with the interdisciplinary team and showing patients what possibilities exist for treatment.. 4 & 5) After approval of the digital rendition, a 3D model of the smile design was printed along with a PVS treatment stent (Fig.. Feature April 5, 2017 by Paresh Shah, MS, DMD, Cert Esthetic Dent April 2017 Topics More Features The use of a diagnostic wax-up has always been beneficial in the planning and execution of restorative and surgical procedures.. A 42-year-old female patient had has some large composites on her four anterior teeth that have been breaking down and staining for some time (Fig.. She was hesitant whether to treat the entire facial surfaces of her four anterior teeth or simply replace the fillings that had stains around the margins.. Dr Shah is also a founder and co-director of a Seattle Study Club in Winnipeg He has used digital technology in his practice for over 8 years and lectures on all aspects of restorative, interdisciplinary care and digital dentistry.. This method still leads to an inherent challenge as the lab often doesn’t have accurate details as to lip dynamics, facial expression and function.. Email: shahp@mymts.net (www.drpareshshah.com)

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