Smile Veneers:

Integrated Analog & Digital Clinical Protocol

Patient Name: _____ Age: ____ Case No: _____

Day 1: Diagnostics, Analysis & Digital Simulation

- **Photography:**
  - ☐ Pre-Treatment Photos (Full face, Smile, 1:2 Macro) [1]
  - ☐ Shade Mapping with tab in frame [3]
- **Data Acquisition (Select Method):**
  - ☐ **Analog:** Diagnostic Impressions (Putty/Alginate) for PrepGuide [4]
  - ☐ **Digital:** Intraoral Scan (IOS) for Digital Smile Design (DSD)
  - ☐ **Advanced:** Facial Scanning for 3D integration [5]
- **Analysis:**
  - ☐ Anterior Bite Registration (Traditional Putty or Digital Scan) [5]
  - ☐ Oral Habits / Bruxism Check (Mandatory for Veneer Guard planning)
  - ☐ Enamel Status & Structural Risk
  - ☐ Interdental Space / Diastema Analysis
- **Patient Engagement:**
  - ☐ Compliance & Informed Consent [4]
  - ☐ **Digital Simulation:** AI-driven "Preview before you proceed" mockup
  - ☐ Traditional Shade Selection (VITA Master or similar)

Day 2: Guided Preparation & RSVP Provisionalization

- **Preparation Templates (Select Method):**
  - ☐ **Analog:** PrepGuide derived from diagnostic models [4]
  - ☐ **Digital:** 3D-Printed Rigid PrepGuide for maximum accuracy
- **Enamel-Preservation Prep Metrics:**
  - ☐ **0.2 mm** – Gingival Third (Light Chamfer) [7]
  - ☐ **0.5 mm** – Facial / Middle Third [7]
  - ☐ **1.0 mm** – Incisal Edge (Butt Joint preferred) [7]
  - ☐ PrepGuide Recheck during reduction
- **RSVP (Rapid Simplified Veneer Provisional) System:**
  - ☐ Matrix fabrication from Wax-up (Manual or Digital) [8]
  - ☐ **Provisional Modification:** Trim cervical 1/3 of matrix for flash control [8]
  - ☐ Spot Etch & Bond (Optional for retention) [9]
  - ☐ RSVP Incisal (Matrix) + RSVP Cervical (Free-hand sculpting)

- ☐ Finish/Polish (Avoid Vaseline contamination of bond surfaces) [8]

Day 3: Laboratory Fabrication & Material Integration

- **Workflow Selection:**
  - ☐ **Traditional:** Pressed Ceramic (Feldspathic or Lithium Disilicate)
  - ☐ **Express Digital:** CAD/CAM Milling (Same-day capability)
- **Strategic Planning:**
  - ☐ Shade Adjustments & Characterization
  - ☐ Stain Cover-up Protocols (Opaque ingots if required)
  - ☐ **Veneer Guard:** Custom fabrication (Mandatory for bruxers)

Day 4: High-Integrity Bonding & Delivery

- **Pre-Bonding Phase:**
  - ☐ Trial Assessment (Fit, Margin, Contact)
  - ☐ Water/Try-in Paste for shade verification [10]
- **Ceramic Surface Management (Decontamination):**
  - ☐ **Laboratory Etched:** 37% Phosphoric Acid (H_3PO_4) for 40-60 sec [11]
  - ☐ **Blood Contamination:** Ivoclean (Zirconium Oxide suspension) [13]
  - ☐ **Chairside Etching:** 5-9% Hydrofluoric Acid (HF) - 20 sec [12]
- **Adhesive Sequence:**
  - ☐ Silane Coupling Agent (60 sec) + Uncured Bonding on Veneers [16]
  - ☐ 37% Phosphoric Acid (H_3PO_4) on Enamel (15-30 sec)
  - ☐ Cured Bonding Agent on Tooth Surface
- **Final Delivery:**
  - ☐ Resin Cementation & Spot Bond (Wave-cure technique) [4]
  - ☐ Excess removal, Finishing & Polishing [18]
  - ☐ Post-Treatment Photography [5]
  - ☐ Veneer Guard Delivery & Occlusal check

Armamentarium Matrix

Category	Traditional / Analog	Modern / Digital Alternative
Data	Alginate / Putty Impressions [4]	Intraoral Scanner (IOS)
Analysis	Facebow / Manual Bite	3D Facial Scanner / Digital

		Occlusion [5]
Guided Prep	Putty Stents / Depth Burs [4]	3D Printed Rigid PrepGuides
Provisional	Bis-Acryl Temp Crowns [9]	RSVP Composite System (Microhybrid)
Burs	Depth Mark, Taper Round, Ball [4]	Guided-Handpiece Burs
Materials	Feldspathic Porcelain	Lithium Disilicate / Zirconia
Etching	HF Acid / H_3PO_4 [4]	Ivoclean / Laser Decontamination
Finishing	Polishing Discs / Strips [4]	Resin Glaze (Glisten/Tempglaze)

Clinical Notes & Patient Feedback: _____