Crown & Bridge Problem Solving

HIGH OCCLUSION:
1. Centric occlusion is off. Patient did not close down properly during impression.
2. Prep or opposing tooth drifted. Temporary did not have opposing arch contact.
3. Distorted material. Crown will not seat down on the prep.
4. Inadequate occlusal clearance. Adjust the opposing arch, or re-prep.
5. Occlusal anatomy was over contoured.

TIGHT CONTACTS:
1. Prep or adjacent teeth drifted. Temporary did not have good interproximal contacts.
2. Distorted material. Crown will not seat in the mouth all the way down.
3. Model abraded. Crown was not checked on solid model.

SHADE INCORRECT:
1. Are you using 5500 degrees Kelvin light during shade selection?
2. How old is your shade guide and your lights?
3. What color is your operatory and patient bibs? (light blue or light grey is best).
4. Inadequate porcelain thickness due to improper waxing or improper preparation.
5. Shade was not verified at lab.

PORCELAIN BULKY:
1. Over contoured crown. Did not match adjacent teeth.
2. Metal substructure too thick. Should be .03mm
3. Opaque layer too thick. Should be .02mm
4. Porcelain layer too thick. Should be 1.0mm
5. Not enough tooth reduction. 1.5mm Total

IMPRESSION DISTORTED:
1. Mixture amounts and mixing times not followed accurately.
2. Use fingertips when mixing base material not rolling in palms. Heat will accelerate setting time.
4. Drag occurred due to material already setting in tray before insertion, or tray was removed before final set time.
5. Check impression tray for flexing due to wide arch or interference with retro-molar pad area.
6. Always dimple your base material in the prep area before taking a wash. This enables the wash material to encompass the prep completely thus eliminating compression against base material.
7. Impression material itself is either bad or outdated.
8. Impression was not poured during manufacturers recommended time.
9. Do not use natural latex gloves. Synthetic latex is o.k. & will not alter setting time of material.