Important things that we need to get right with Static Jaw Registration

QMUL M ClinDent Seminar A
14th September 2015
What is the problem here?
Jaw Registration – Removable

Why is this referred patient not getting on with their upper denture?
May I suggest a good paper on the subject:

Warren K. and Capp N.
A review of Principles and Techniques for Making Interocclusal Records for Mounting Working Casts
Restorations conforming to existing inter-cuspal relationship

- When enough tooth contacts and working conformatively most accurate record is with no intervening record (i.e. Hand-Help Articulation) Strohaver 1972
- The accuracy of the mounting can be improved by coating the posterior teeth with separating medium and rigidly ‘fixing them’ together with impression plaster Warren & Capp 1990
Restorations using existing intercuspal relationship

- Strohaver 1972

When enough tooth contacts and working conformatively, the most accurate record is with no intervening Record (i.e. Hand-Help Articulation).

The three-legged Stool

Take away one leg and it will fall down. I look at jaw registrations as returning one or more of the missing leg(s) to the stool. If the stool doesn’t fall down at the start then you don’t need a jaw reg!
How would you take your jaw registration to ensure that your chosen crown for LR6 is not high or shy of occlusal contact?
Beauty wax over the occlusal surface of distal molar refine with Temp-bond

Occlusal record packaged within safe environment for the UK post system
How do I take a conformative Jaw Record?
Take Away Message

- Accurate
- Stable at mouth temp
- Reproducable
- Verifiable
- Cheap
- Simple to use

- Simple to use in lab
- Simple to transport
- No bounce – solid material
• No more use of the heated carding-wax sausage please from anyone in this room

• You need a material / wax that is absolutely firm at mouth temperature, dimensionally stable and allows simple verification
Learning point: If the stool falls down you need to put something between the teeth to ‘prop-it-up’ when the natural teeth are together in ICP.
Mrs R

Case Discussion
Mrs R

- Fit & well 45 year old female
- Existing maxillary bridges 10 years old
- Bridges have never felt comfortable but no acute pain
- In recent months fracture of porcelain off both bridges - metal now visible and unsatisfactory
Mrs R

• Why do you think that the porcelain has fractured?
• What solutions can you suggest?
• What and where are the problems?
• How predictable will it be?
Answers please
Mrs R
Porcelain fracture

- Lack of metal support of porcelain
- Occlusal problem?
- Parafunctional activity?
Mrs R
Removing UL bridge

- Patients warned that we never know what might be found beneath the bridge(s)
Clinical Examples

Removing PFM{s} – never tap off

Long diamond for the ceramic
Redo, Re-treat, Restore or Replace?

- Where you are re-treating short teeth with limited retention – consider PolyF as your temp cement of choice.
Mrs R
Removing UR bridge

• Why has this happened and what’s the treatment?
Jaw Reg for last molar in arch cases when removing / replacing occlusal coverage restorations

- Try and copy what you started – pre-op Index
- Do teeth in front first (if you can)
- Leave part of the occlusal aspect of the UR7 intact
- Prepare more off the terminal teeth to create the room?
- Cement in high?
Mrs R
Try in & Fit of UL bridge

- Be prepared to adjust restorations in excursive movements
- However the static occlusal contacts should be very close / near
Do we need to take a jaw registration and if so why?
Do we need to take a jaw registration and if so why?
Quadrant Restoration
(Removing one or two of the stool legs)

- The interocclusal record needs only to cover the prepared teeth
- The record should not be supported by the soft tissues
- Can use many materials including: Waxes e.g. hard beauty wax, self-curing resins copings e.g. Duralay or silicones
- The jury is out as to whether one is better than the other
- It’s probably how well they are used

Most of the time we need to use conformative jaw registrations. Registration material should only be placed between your preparations.
Principles of Working Jaw Registrations

- Always taken at the vertical dimension you plan to place your restoration(s)
- Only exception is a Remount procedure or a pre-centric C/C check record
I hope that this was helpful

The End

Thanks for your attention and I hope you all enjoy the rest of the conference