PROBLEM Crowding

BACTERIA & PLAQUE ISSUES
Can create the following issues
• Difficulty in properly brushing and flossing all tooth surfaces

Can lead to or show signs of
• Caries/tooth decay
• Plaque and calculus accumulation leading to
  o Periodontal disease
  o Poor root support, progression of bone loss
• Tooth mobility
• Abscesses

Potential patient symptoms
• Sensitivity. Discolored teeth in crowded areas
• Inflamed and bleeding gums
• Receding gums
• Loose teeth

MALOCCLUSION RELATED ISSUES
Can create the following issues
• Improper occlusal function
  o If teeth are not upright, vertical forces do not transfer down from crown to root to the bone during occlusion
  o Lateral stress on posterior teeth and surrounding periodontal structures

Can lead to or show signs of
• Occlusal trauma – abfractions
• Uneven wear, chipping
• Gum, periodontal problems
  o Gingival recession, bone loss
• Overlapping teeth that get worse over time if left untreated

Potential patient symptoms
• Tooth sensitivity from wear
• Receding gums
• Loose teeth

PROBLEM Spacing

BACTERIA & PLAQUE ISSUES
Can create the following issues
• Possible food impaction between posterior teeth

Can lead to or show signs of
• Gum problems due to the lack of protection by the teeth
  • Periodontal pockets
  • Gum disease
  • Sore, tender tissue

Potential patient symptoms
• Sore, tender tissue
• Inflamed and bleeding gums

MALOCCLUSION RELATED ISSUES
Can create the following issues
• Insufficient anterior support from lack of canine guidance
  o Tongue thrust may flare anterior teeth, including canines

Can lead to or show signs of
• Premature posterior wear
• Periodontal problems

Potential patient symptoms
• Increasingly flared anterior teeth

PROBLEM Deep Bite

MALOCCLUSION RELATED ISSUES
Can create the following issues
• Improper function of anterior teeth

Can lead to or show signs of
• Occlusal trauma
  o Fremitus
  o Periodontal problems, including bone loss
  o Abnormal wear, chipping of lower anterior teeth
  o Lower front teeth can over-erupt and damage palate behind top front teeth

Potential patient symptoms
• Receding gums
• Abnormal wear of teeth

TMJ ISSUES
Can create the following issues
• TMD

Can lead to or show signs of
• Tension of the chewing muscles
• Creating abnormal forces on TMJ and may lead to TMD
• Retrognathic position of lower arch may exacerbate risk of TMD

Potential patient symptoms
• Jaw joint pain
• Clicking, popping noise in jaw joint when opening or closing mouth
• Headaches, neck pain

PROBLEM Excessive Overjet

MALOCCLUSION RELATED ISSUES
Can create the following issues
• Upper anterior teeth are protruded
  o Little if any contact between the upper and lower front teeth, including canines

Can lead to or show signs of
• Anterior tooth trauma or fracture
• Posterior tooth trauma or fracture from lack of canine guidance

Potential patient symptoms
• Chipped/fractured anterior teeth
• Patient complains of unattractive smile
PROBLEM Cross Bite

MALOCCLUSION RELATED ISSUES
Can create the following issues
• Abnormal centric relation/centric occlusion mandibular shift
  o Dysfunctional chewing patterns
• If teeth are not upright, vertical forces do not transfer down from crown to root to the bone during occlusion
  o Lateral stress on posterior teeth and surrounding periodontal structures

Can lead to or show signs of
• Occlusal trauma - abfractions
• Abnormal wear or chipping
• Periodontal problems, including tooth movement and bone loss
• Abnormal stress on buccal sides of teeth

Potential patient symptoms
• Increased sensitivity
• Abfraction
• Loose back teeth
• Biting of own lips and cheek when eating or talking

TMJ RELATED ISSUES
Can create the following issues
• TMD

Can lead to or show signs of
• Abnormal forces on TMJ and may lead to TMD
• Dysfunctional chewing patterns and possibly jaw joint problems

Potential patient symptoms
• Jaw joint pain
• Limited movement, locking of jaw
• Clicking, popping noise in jaw joint when opening or closing mouth

PROBLEM Edge to Edge Bite

MALOCCLUSION RELATED ISSUES
Can create the following issues
• Improper function of anterior teeth
  o Upper and lower anterior teeth are in edge to edge contact

Can lead to or show signs of
• Premature wear, chipping on anterior teeth
  o Clinical crowns shortened as incisal edge wears down

Potential patient symptoms
• Abnormal wear - anterior teeth are short or worn down
• Tooth sensitivity

TMJ RELATED ISSUES
Can create the following issues
• TMD

Can lead to or show signs of
• End to end anterior teeth relationship can result in TMD
  o Limited range of motion, pain during chewing
  o Jaw joint pain (TMD) that affects ability to chew food

Potential patient symptoms
• Jaw joint pain
• Limited movement, locking of jaw
• Clicking, popping noise in jaw joint when opening or closing mouth
• Headaches, neck pain

PROBLEM Anterior Open Bite

MALOCCLUSION RELATED ISSUES
Can create the following issues
• Improper function of anterior and posterior teeth
  o Lack of anterior contact, posterior contact overload

Can lead to or show signs of
• Premature wear on posterior teeth
• Occlusal trauma - abfractions
• Periodontal problems
  o Deep pocketing of posterior teeth
  o Gum recession, bone loss, poor root support

Potential patient symptoms
• Abnormal wear on posterior teeth
• Small notch in teeth at gum line
• Gum recession
• Loose teeth

TMJ RELATED ISSUES
Can create the following issues
• TMD

Can lead to or show signs of
• Wear on posterior teeth which may cause jaw joint pain (TMD)

Potential patient symptoms
• Jaw joint pain