

| IOTN Program |                         |
|--------------|-------------------------|
| 9.00-10.00   | Dental Health Component |
| 10.00-10.45  | Aesthetic Component     |
| 10.45-11.00  | Break                   |
| 11.00-12.30  | Practical               |
| 12.45        | Close                   |

1

I.O.T.N.  
DENTAL HEALTH  
COMPONENT

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NHSCT

2



3



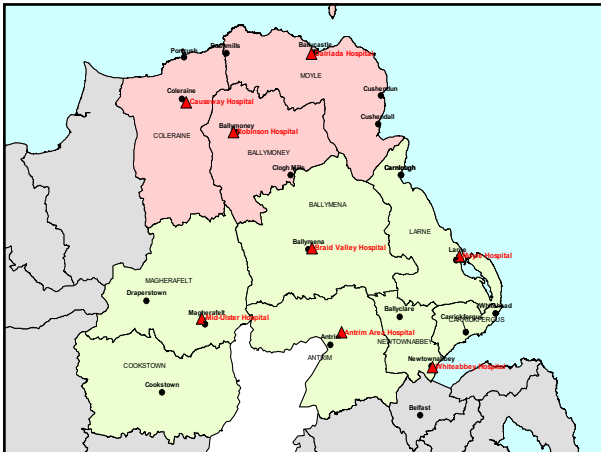
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6



7



8

## IOTN

- Index of
- Orthodontic
- Treatment
- Need

9

## Why is it Important?

- Threshold for NHS orthodontic treatment
- Referrals

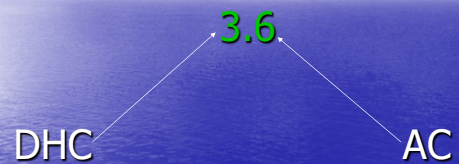
10

## Two Components

- Dental Health Component (DHC)
- Aesthetic Component (AC)

11

## All Important Number



12



13

## Dental Health Component

- Categorizes detrimental effects
- Order of severity
- Scale 1-5
- Scored on single worst aspect
- Objective & valid

14

## Treatment Need-DHC

- Grade 5 Very Great
- Grade 4 Great
- Grade 3 Moderate/Borderline
- Grade 2 Little
- Grade 1 None

15

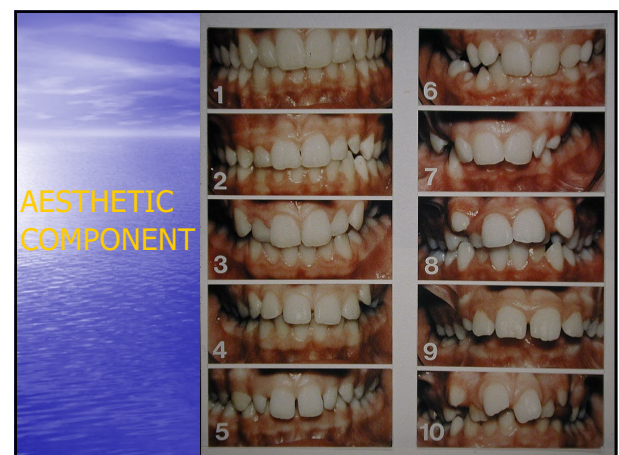
## NHS Treatment?

- Grade 5 Yes
- Grade 4 Yes
- Grade 3 Maybe
- Grade 2 No
- Grade 1 No

16

| Dental Health Component of IOTN<br>Treatment need from a dental health perspective |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Grade 5 (very great)                                                               | <ul style="list-style-type: none"> <li>a. Increased overjet &gt; 9 mm</li> <li>b. Extensive hypodontia with restorative implications (more than one tooth missing in any quadrant) requiring pre-restorative orthodontics</li> <li>c. Impeded eruption of teeth (with the exception of third molars) due to crowding, displacement, the presence of supernumerary teeth, retained deciduous teeth and any pathological cause</li> <li>d. Reverse overjet greater than 3.5 mm with reported masticatory and speech difficulties</li> <li>e. Defects of cleft lip and palate</li> <li>f. Submerged deciduous teeth</li> </ul>                                                                                                                                                                            |
| Grade 4 (great)                                                                    | <ul style="list-style-type: none"> <li>a. Increased overjet &gt; 6 mm but ≤ 9 mm</li> <li>b. Reverse overjet &gt; 3.5 mm with no masticatory or speech difficulties</li> <li>c. Anterior or posterior crossbite with &gt; 2 mm discrepancy between retentive contact position and intercuspal position</li> <li>d. Severe displacements of teeth &gt; 4 mm</li> <li>e. Extreme lateral or anterior open bites &gt; 4 mm</li> <li>f. Increased and complete overbite with labial or palatal trauma</li> <li>g. Low extensive hypodontia (one tooth missing per quadrant) requiring pre-restorative orthodontics or orthodontic space closure to obviate the need for a prosthesis</li> <li>h. Posterior lingual crossbite with no functional occlusal contact in one or both buccal segments</li> </ul> |
| Grade 3 (moderate)                                                                 | <ul style="list-style-type: none"> <li>a. Reverse overjet greater than 1 mm but ≤ 3.5 mm with recorded masticatory and speech difficulties</li> <li>b. Partially erupted teeth, tipped and impacted against adjacent teeth</li> <li>c. Supplemental teeth</li> <li>d. Increased overjet &gt; 3.5 mm but ≤ 6 mm with incompetent lips</li> <li>e. Reverse overjet greater than 1 mm but ≤ 3.5 mm</li> <li>f. Anterior or posterior crossbite with &gt; 1 mm but ≤ 2 mm discrepancy between retentive contact position and intercuspal position</li> <li>g. Displacement of teeth &gt; 2 mm but ≤ 4 mm</li> <li>h. Lateral or anterior open bite greater than 2 mm but ≤ 4 mm</li> <li>i. Increased and complete overbite without labial or palatal trauma</li> </ul>                                    |
| Grade 2 (little)                                                                   | <ul style="list-style-type: none"> <li>a. Increased overjet &gt; 3.5 mm but ≤ 6 mm with competent lips</li> <li>b. Reverse overjet &gt; 0 mm but ≤ 1 mm</li> <li>c. Anterior or posterior crossbite with ≤ 1 mm discrepancy between retentive contact position and intercuspal position</li> <li>d. Displacement of teeth &gt; 1 mm but ≤ 2 mm</li> <li>e. Anterior or posterior open bite &gt; 1 mm but ≤ 2 mm</li> <li>f. Increased overbite ≥ 5 mm without gingival contact</li> <li>g. Premaxillary or postmaxillary occlusions with no other anomalies. Includes up to half a unit discrepancy</li> </ul>                                                                                                                                                                                         |
| Grade 1 (minor)                                                                    | Extremely minor malocclusions including displacements < 1 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

17



18

## HIERARCHIAL SCALE (DHC)

**M**issing  
**O**verjet  
**C**rossbite  
**D**isplacement of contact points  
**O**verbite

19

## HIERARCHIAL SCALE (DHC)

M O C D O

20



21

## Missing Teeth (4 or 5)

- Ectopic
- Impeded eruption
- Hypodontia
- Avulsed teeth

22



23

## Missing Teeth

- Ectopic
- Impeded eruption
- Hypodontia
- Avulsed teeth

5i

24

## Impeded Eruption

- Space less than or equal to 4mm for an unerupted tooth

25

- Partially erupted, tipped and impacted against other teeth

• 4t

26

## Impeded Eruption

- Space less than or equal to 4mm for an unerupted tooth

27



28

## Impeded Eruption

Mixed dentition

- $\leq 18\text{mm}$  upper
- $\leq 17\text{mm}$  lower

(mesial of 1<sup>st</sup> molar to distal lateral incisor)

29

## Missing Teeth

- Ectopic 5i
- Impeded eruption 5i
- Hypodontia
- Avulsed teeth

30

## Hypodontia

- More than one tooth in a quadrant 5h
- One tooth per quadrant 4h

(Pre-restorative ortho indicated)

31



32

## Missing Teeth

- Ectopic 5i
- Impeded eruption 5i
- Hypodontia 4h/5h
- Avulsed teeth

33

## Missing Teeth

- Ectopic 5i
- Impeded eruption 5i
- Hypodontia 4h/5h
- Avulsed teeth 4h/5h

34

## M O C D O

Missing  
Overjet  
Crossbite  
Displacement of contact points  
Overbite

35

## OVERJET (5,4,3,2)

- Increased
- Reduced or reversed

36

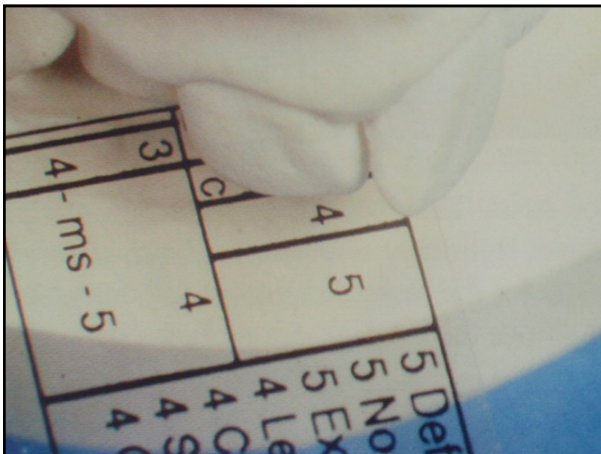


37

### Increased Overjet

|                          |    |
|--------------------------|----|
| >9mm                     | 5a |
| 6.1-9mm                  | 4a |
| 3.5-6mm incompetent lips | 3a |
| 3.5-6mm competent lips   | 2a |

38

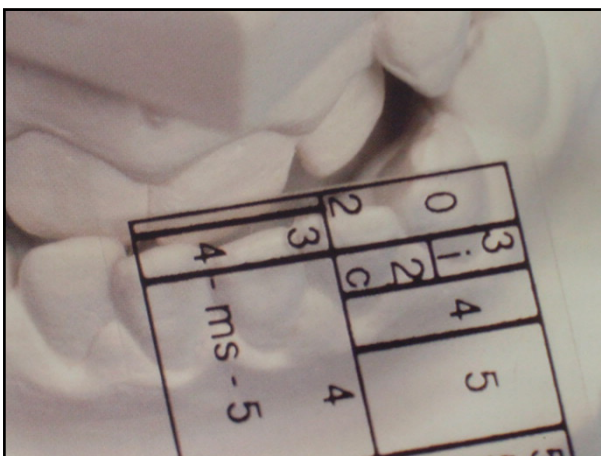


39

### Reverse Overjet

|                                      |    |
|--------------------------------------|----|
| >3.5mm mastication & speech probs    | 5m |
| >3.5mm No mastication & speech probs | 4b |
| 1-3.5mm mastication & speech probs   | 4m |
| 1-3.5mm                              | 3b |
| 0-1mm                                | 2b |

40



41

### MOCDO

|                                |
|--------------------------------|
| Missing                        |
| Overjet                        |
| Crossbite                      |
| Displacement of contact points |
| Overbite                       |

42

## CROSSBITE (4,3,2)

- Anterior crossbite
- Posterior crossbite

43

## Crossbites

- >2mm discrep IP & RCP 4c
- 1-2mm discrep IP & RCP 3c
- ≤1mm discrep IP & RCP 2c

44

## M O C D O

- Missing
- Overjet
- Crossbite
- Displacement of contact points
- Overbite

45

## Displacement of Contact Points (4,3,2,1)

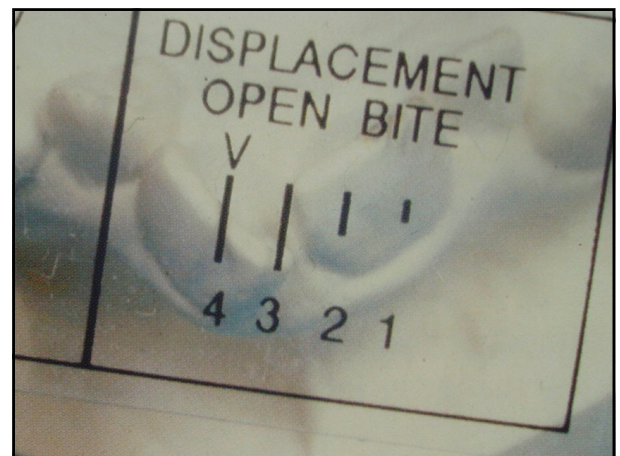
- Crowding

46

## Contact Point Displacement

- >4mm 4d
- 2.1-4mm 3d
- 1-2mm 2d

47



48

## Contact Point Displacement

- Spaces not generally recorded

49

## Contact Point Displacement

- Displacement b/w deciduous and permanent teeth not recorded

50

## Contact Point Displacement

- Contact point displacement due to rotations not recorded

51

## M O C D O

Missing  
Overjet  
Crossbite  
Displacement of contact points  
Overbite

52

## OVERBITE (4,3,2)

- Increased
- Reduced( AOB/Lateral Open Bites)

53

## Increased Overbite

- Complete with trauma 4f
- Complete without trauma 3f
- $\geq 3.5\text{mm}$  2f

54

### AOB or Lateral Open Bite

- Open bites >4mm 4e
- Open bites 2.1-4mm 3e
- Open bites 1-2mm 2e

55

### Other Scores

- Cleft lip and palate
- Submerging teeth
- Supernumerary teeth
- Buccal occlusion

56

### Other Scores

- Cleft lip and palate 5p
- Submerging teeth

57

### Other Scores

- Cleft lip and palate 5p
- Submerging teeth 5s
- Supernumerary teeth

58

### Other Scores

- Cleft lip and palate 5p
- Submerging teeth 5s
- Supernumerary teeth 4x
- Buccal occlusion

59

### Other Scores

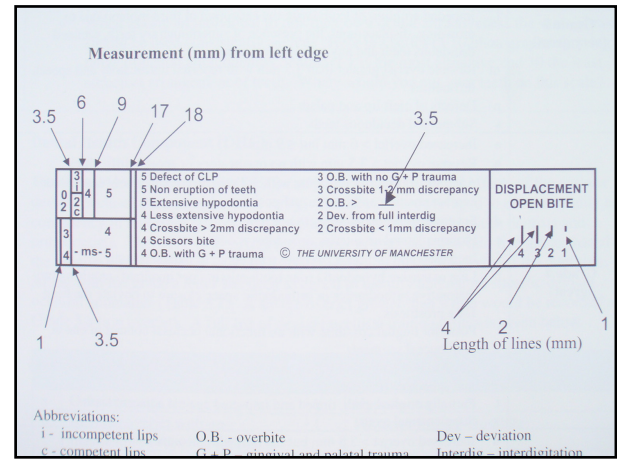
- Cleft lip and palate 5p
- Submerging teeth 5s
- Supernumerary teeth 4x
- Buccal occlusion 2g

60

## MOCDO

Missing  
Overjet  
Crossbite  
Displacement of contact points  
Overbite

61



62

## IOTN

DHC

3.6

AC

63