

### **Problems in using face-bow and articulator in Thai samples.**

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This study was conducted to determine factors that may be a problem in using face-bow to transfer relationship between hinge axis and occlusal plane to articulator. In first step, collecting data from 42 dry skulls of Thai people by using face-bow and then transfer that relationship to articulator. From this experiment was found that 7.14% of samples have problem that can not orient the upper cast in correct position when third point of reference is orbitale. Then, measure the distance between orbitale to buccal cusp of 24 that mean is 5.06 cms. In second step, collecting data from 61 males and females by using the same method as the first step. Mean of distance is 5.30 cms and 50.82% of samples have problem. Mean of distance is 5.38 cms in the problem group, 5.22 cms in the no-problem group. Statistical T-test was compared distance between orbitale to buccal cusp of maxillary first premolar among 2 groups and found that no significant difference. Our finding suggest that problem in using face-bow transfer that relationship does not depend on only distance between orbitale to buccal cusp of 24 but also relate to other factors. It was found that if the angle between occlusal plane and horizontal plane increase, the problem related transferring this relationship tend to be increased.

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