Evaluasi program pelatihan Fiksasi Mandibulomaksila pada Residen bedah plastik: sebuah studi quasi experimental = Mandibulomaxillary fixation MMF training program evaluation among plastic surgery resident: a quasi experimental study

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Abstrak

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Latar Belakang Fiksasi Mandibulomaksila merupakan tindakan prosedur bedah yang harus dikuasai oleh residen bedah plastik untuk menjadi seorang ahli bedah plastik berhubungan dengan semakin bertambah banyaknya kasus kasus dibidang kraniofasial Dengan melakukan pelatihan pada model mandibulomaksila residen tersebut diharapkan akan memiliki kemampuan dan kompeten untuk melakukan prosedur tersebut sebelum berhadapan langsung dengan pasien yang sebenarnya Pelatihan ini berupa program pelatihan menggunakan model mandibulomaksila untuk mengevaluasi efeknya dalam meningkatkan keterampilan dan kemampuan residen bedah plastik dalam menghadapi kasus kasus di bidang kraniofasial Metoda Dua puluh dua orang residen bedah plastik diikutsertakan dalam pelatihan ini mereka dibagi menjadi dua grup grup pertama terdiri atas residen bedah plastik yang belum pernah mengerjakan prosedur fiksasi mandibulomaksila sebelumnya dan grup kedua terdiri atas residen bedah plastik yang sudah pernah mengerjakan prosedur ini sebelumnya Mereka menjalani satu set program pelatihan yang terdiri dari satu sesi pembekalan materi dan satu sesi pelatihan pada model Kemudian mereka dievaluasi dalam hal kemampuan keterampilan fiksasi mandibulomaksila Sesi pelatihan pada model direkam menggunakan video dan dinilai oleh dua orang ahli bedah plastik konsultan kraniofasial sebagai evaluator Hasil ABPAS dan IMFscrew placement Global Rating Scale menunjukkan peningkatan skor performa pada studi populasi yang lebih berpengalaman group 2 pada seluruh aspek termasuk the task specific work list 16 5 2 44 vs 18 1 57 P 0 19 global rating scale 17 5 2 63 vs 19 4 2 31 P 0 43 total ABPAS score 33 9 4 76 vs 37 4 3 82 P 0 34 dan juga untuk IMFscrew placement global rating scale 14 9 1 53 vs 15 9 0 95 P 0 38 walaupun hasil pengumumannya tidak menunjukkan hasil yang bermakna secara statistik Waktu yang dibutuhkan untuk menyelesaikan arch bar 48 min 17 s vs 41 min 8 s P 0 23 Waktu yang dibutuhkan untuk menyelesaikan IMFscrew 9 min 25 s vs 6 min 32 s P 0 23 Waktu total untuk menyelesaikan seluruh tugas lebih singkat pada group 2 walaupun perbedaannya tidak bermakna secara statistik 57 min 24 s vs 47 min 17 s P 0 23 Kesimpulan Program pelatihan Fiksasi MandibuloMaksila telah terbukti dapat membantu residen bedah plastik untuk meningkatkan keterampilan kraniofasial mereka memberikan hasil berupa peningkatan skor performa ABPAS dan IMFscrew placement Global Rating Scale dan waktu yang lebih singkat dalam menyelesaikan seluruh tugas Kata kunci pelatihan fiksasi mandibulomaksila test bedah plastik keterampilan kraniofasial arch bar.
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ABSTRACT
BACKGROUND Mandibulomaxillary fixation MMF is one of the surgery skill a plastic surgery resident have to master to become a plastic surgeon as craniofacial cases increase rapidly By doing training on a non living model one will be competent to do the skill prior to face the real patient This study implement a

training program using cranial model to evaluate the increasing learning curve in craniofacial cases among residents in training METHODS Twenty two plastic surgery residents were enrolled in this study they were divided into two groups the first group consists of residents who never perform this skill before and the second group were the ones who have performed this skill previously They performed a set of training consisting of one knowledge based session followed by one skill based session Afterwards they were evaluated in terms of maxillomandibular fixation skills ability using ABPAS and IMFscrew placement Global Rating Scale which assessed by two senior craniofacial surgeons using video recording RESULTS The ABPAS and IMFscrew placement Global Rating Scale demonstrated an increase of performance score in the more experienced study population group 2 in all aspect including the task specific work list 16 5 2 44 vs 18 1 57 P 0 19 global rating scale 17 5 2 63 vs 19 4 2 31 P 0 43 total ABPAS score 33 9 4 76 vs 37 4 3 82 P 0 34 and also for IMFscrew placement global rating scale 14 9 1 53 vs 15 9 0 95 P 0 38 although the measurement did not show statistically significant results Time needed for arch bar completion 48 min 17 s vs 41 min 8 s P 0 23 Time needed for IMFscrew placement completion 9 min 25 s vs 6 min 32 s P 0 23 Total time to task completion was shorter in group 2 although the difference was not statistically significant 57 min 24 s vs 47 min 17 s P 0 23 CONCLUSION The MandibulloMaxillary Fixation training program have proven to help plastic surgery residents in training to increase their craniofacial skills give an increase in ABPAS and IMFscrew placement Global Rating Scale performance score and shorter time to task completion KEYWORDS mandibulomaxillary fixation MMF training plastic surgery testing learning curve for craniofacial arch bar, BACKGROUND Mandibulomaxillary fixation MMF is one of the surgery skill a plastic surgery resident have to master to become a plastic surgeon as craniofacial cases increase rapidly By doing training on a non living model one will be competent to do the skill prior to face the real patient This study implement a training program using cranial model to evaluate the increasing learning curve in craniofacial cases among residents in training METHODS Twenty two plastic surgery residents were enrolled in this study they were divided into two groups the first group consists of residents who never perform this skill before and the second group were the ones who have performed this skill previously They performed a set of training consisting of one knowledge based session followed by one skill based session Afterwards they were evaluated in terms of maxillomandibular fixation skills ability using ABPAS and IMFscrew placement Global Rating Scale which assessed by two senior craniofacial surgeons using video recording RESULTS The ABPAS and IMFscrew placement Global Rating Scale demonstrated an increase of performance score in the more experienced study population group 2 in all aspect including the task specific work list 16 5 2 44 vs 18 1 57 P 0 19 global rating scale 17 5 2 63 vs 19 4 2 31 P 0 43 total ABPAS score 33 9 4 76 vs 37 4 3 82 P 0 34 and also for IMFscrew placement global rating scale 14 9 1 53 vs 15 9 0 95 P 0 38 although the measurement did not show statistically significant results Time needed for arch bar completion 48 min 17 s vs 41 min 8 s P 0 23 Time needed for IMFscrew placement completion 9 min 25 s vs 6 min 32 s P 0 23 Total time to task completion was shorter in group 2 although the difference was not statistically significant 57 min 24 s vs 47 min 17 s P 0 23 CONCLUSION The MandibulloMaxillary Fixation training program have proven to help plastic surgery residents in training to increase their craniofacial skills give an increase in ABPAS and IMFscrew placement Global Rating Scale performance score and shorter time to task completion KEYWORDS mandibulomaxillary fixation MMF training plastic surgery testing learning curve for craniofacial arch bar]