

三维 CT 影像技术在颌面骨折中的应用

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【摘要】: 目的: CT 方法: 2021 1 2022 3
30 X CT
结果: 30
9 8 3 6
4 CT X 93.33% 70.00% CT X
P 0.05 结论: CT

【关键词】: CT

Application of Three-dimensional CT Imaging Technique in Maxillofacial Fractures

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Abstract: Objective: To analyze the value of three-dimensional CT imaging in maxillofacial fractures. Methods: 30 patients with maxillofacial fractures treated in our hospital from January 2021 to March 2022 were selected as the research objects. All patients underwent routine X-ray film and multi-slice spiral CT scanning. The imaging manifestations of the patients were reviewed. Based on the surgical results, the accuracy of different methods in diagnosing different types of maxillofacial fractures was calculated and compared. Results: Based on surgical results, 9 cases of maxillary fracture complicated with zygomatic arch fracture, 8 cases of mandibular fracture complicated with maxillary fracture, 3 cases of mandibular ramus fracture complicated with zygomatic arch bone, 6 cases of bilateral maxillary fracture, and 4 cases of frontal sunken fracture complicated with zygomatic arch fracture were detected. Based on the results of surgical diagnosis, the diagnostic accuracy of CT and X-ray was 93.33% and 70.00% respectively. The diagnostic accuracy of CT was significantly higher than that of X-ray, with statistical difference ($P < 0.05$). Conclusion: Multi-slice spiral CT scanning of patients with maxillofacial fractures can observe and judge the fracture from multiple angles and multiple planes, which is conducive to the accurate diagnosis of fracture degree and fracture displacement, and provides a reliable basis for the determination of early treatment plan of patients.

Keywords: 3D CT imaging technology; Maxillofacial fracture; Diagnosis; Application value

CT

2021 1

2022 3

30

X

CT

CT

[1]

1 资料与方法

1.1

2021 1

2022 3

30

X

X CT P 0.05 1

1

19 X CT 22 69

38.12± 6.45

13 9 6

2

1.2

X CT

X GE

80-90KV

35-50MA s 50-70MA s

CT 64 128

CT

120kV 250 mA

3mm 1mm

1mm 0.5mm

VR CPR SSD

检查方式	上颌骨骨折并发颧弓骨折	下颌骨骨折并发上颌骨骨折	下颌骨支骨折并发颧弓骨折	两侧上颌骨骨折	颌骨凹陷性骨折并发颧弓骨折	准确率
CT (30)	8 (26.67%)	7 (23.33%)	3 (10.00%)	6 (20.00%)	4 (13.33%)	28 (93.33%)
X 线(30)	6 (20.00%)	6 (20.00%)	2 (6.67%)	5 (16.67%)	2 (6.67%)	21 (70.00%)

3 讨论

[2]

[3]

[4]

[5]

[6]

CT

[7]

1.3

X CT

1.4

SPSS 21.0

± S t [n %]

P 0.05

2 结果

30 X X

9 8

3 6

4 CT X X

93.33% 70.00% CT X CT

18