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| **AUTHORS & YEAR** | **# PATIENTS** | **GENDER** | **AGE AND AVARAGE** | **LOCATION** | **CAUSE OF TRAUMA** | **ASSOCIATED FRACTURES** |
| Agarwal, 2013 | 1 | M | 23 (23 years) | Left | Motorcycle accident | Zygoma fracture |
| Kallalli, 2014 | 1 | M | 42 (42 years) | Right | Car accident | Zygoma fracture |
| Brown, 1946 | 8 | Does not specify | Does not specify | Does not specify | Gunshot wound | Does not specify |
| Daniels, 2020 | 1 | M | 30 (30 years) | Right | Car accident | Parasymphysis |
| De Sousa, 2020 | 1 | M | 26 (26 years) | Left | Does not specify | Multiple facial fractures |
| Dhupar, 2018 | 1 | M | 30 (30 years) | Right | Motorcycle accident | Le Fort III and symphysis |
| Findlay, 1972 | 1 | F | 12 (12 years) | Left | Car accident | Does not specify |
| Macleod, 1986 | 1 | M | 47 (47 years) | Left | Motorcycle accident | Does not specify |
| Guven, 2012 | 1 | F | 14 (14 years) | Left | Car accident | Does not specify |
| Lee, 2018 | 1 | M | 36 (36 years) | Left | Motorcycle accident | Zygoma fracture, condyle |
| Pinheiro , 2018 | 1 | M | 26 (26 years) | Left | Motorcycle accident | Does not specify |
| Rikalainen, 1981 | 5 | 4M & 1F | 18, 20, 22,42, 59 (32.2 years) | Does not specify | Traffic accident (n=2), Work accident (n=1), Violence (n=2) | Zygoma (n=5), condyle (n=1), coronoid (n=1), Le Fort III (n=1), temporal (n=1) |
| Rikhotso, 2017 | 1 | M | 33 (33 years) | Left | Motorcycle accident | Zygoma fracture |
| Schwart, 1979 | 1 | M | 51 (51 years) | Left | Does not specify | Zygoma fracture |
| Vanhoce, 1999 | 1 | M | 19 (19 years) | Left | Motorcycle accident | Condyle fracture |

Supplemental Table 1. Variables associated with demographic data, location, cause of trauma, associated fractures.

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| **AUTHORS & YEAR** | **TYPES OF ANKILOSIS** | **TIME BETWEEN TRAUMA AND YEAR OPENING LIMITATION** | **SURGICAL RESOLUTION OF TRAUMA** |
| Agarwal, 2013 | Osseous | 5 weeks | No |
| Kallalli, 2014 | Osseous | 4 weeks | Yes |
| Brown, 1946 | Does not specify | Does not specify | Does not specify |
| Daniels, 2020 | Osseous | At least 12 weeks | Yes |
| De Sousa, 2020 | Osseous | 7 years | No |
| Dhupar, 2018 | Osseous | 4 weeks | Yes |
| Findlay, 1972 | Osseous | Does not specify | Does not specify |
| Macleod, 1986 | Osseous | 28 weeks | Yes |
| Guven, 2012 | Osseous | 168 weeks | Does not specify |
| Lee, 2018 | Osseous | 672 weeks | Yes |
| Pinheiro , 2018 | Osseous | 28 weeks | Does not specify |
| Rikalainen, 1981 | Bone (n=2) Fibrous (n=3) | 8 weeks (n=1), 10 weeks (n=1), 12 weeks (n=1), 14 weeks (n=1), 24 weeks (n=1) | Yes (n=3) No (n=2) |
| Rikhotso, 2017 | Osseous | 112 weeks | No |
| Schwart, 1979 | Osseous | Does not specify | Yes |
| Vanhoce, 1999 | Osseous | 6 weeks | No |

Supplemental Table 2. Type of ankylosis, time between trauma and opening limitation and surgical resolution of the trauma.

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| **AUTHORS & YEAR** | **MOUTH OPENING**  **PREOPERATIVE (MM)** | **APPROACH (INTRAORAL/EXTRA**  **ORAL)** | **TREATMENT** | **IMMEDIATE POSTOPERATIVE MOUTH OPENING (MM)** | **MOUTH OPENING**  **POSTOPERATIVE OR LATE (MM)** | **COMPLICATIONS** | **POSTOPERATIVE PHYSIOTHERAPY** | **POSTOPERATIVE CONTROL** |
| Agarwal, 2013 | 1 mm | Intraoral | Coronoidectomy + osteotomy | 33 mm | 31 mm | Does not specify | Yes | 6 months |
| Kallalli, 2014 | 0 mm | Intraoral | Bilateral coronoidectomy + Osteotomy | 30 mm | 33 mm | Does not specify | Does not specify | 0.23 months |
| Brown, 1946 | Does not specify | Does not specify | Does not specify | Does not specify | Does not specify | Does not specify | Yes | Does not specify |
| Daniels, 2020 | 14 mm | Intraoral  / Extraoral | Condylectomy + osteotomy | 35 mm | 35 mm | Does not specify | Yes | 2 months |
| De Sousa, 2020 | 8 mm | Intraoral | Bilateral coronoidectomy + osteotomy | 25 mm | 23 mm | Does not specify | Yes | 24 months |
| Dhupar, 2018 | 15 mm | Extraoral | Coronoidectomy + osteotomy | 40 mm | 40 mm | Does not specify | Yes | 2 months |
| Findlay, 1972 | 3 mm | Intraoral | Coronoidectomy | 22 mm | 32 mm | Does not specify | Yes | 3 months |
| Macleod, 1986 | 38 mm | Intraoral | Coronoidectomy | 60 mm | 45 mm | Does not specify | Yes | 3 months |
| Guven, 2012 | 13 mm | Intraoral | Coronoidectomy + bone remodeling of the zygoma | 45 mm | Does not specify | Does not specify | Yes | 24 months |
| Lee, 2018 | 2-3 mm | Intraoral | Coronoidectomy + osteotomy | 40 mm | 25 mm | Does not specify | Yes | 79 months |
| Pinheiro , 2018 | 10 mm | Intraoral | Coronoidectomy + osteotomy | Doesnot specify | 40 mm | Does not specify | Yes | 6 months |
| Rikalainen, 1981 | 11 mm on avarege (range 9 mm – 14 mm) | Intraoral | Choroidectomy | 38.6mm on average (range 30mm-44mm) | 38.4mm on average (range 26mm-51mm) | Masseter muscle myotomy was performed to eliminate fibrosis (n=1) | Yes | 44.3 months on average (2.5 months- 84 months) |
| Rikhotso, 2017 | 0 mm | Intraoral | Osteotomy | 32 mm | 40 mm | Does not specify | Yes | 12 months |
| Schwart, 1979 | 7 mm | Intraoral | Mandibular ramus osteotomy + interpositional silastic | 39 mm | 4 mm | Does not specify | Yes | 7 months |
| Vanhoce, 1999 | 13 mm | Extraoral | Coronoidectomy + osteotomy | 31 mm | 17 mm | A forced opening was performed under general anesthesia where a mouth opening of 35mm was achieved and a month later of 37mm. | Yes | 1.5 months |

Supplemental Table 3. Variables associated with oral opening, treatment, complications, physiotherapy and postoperative control.