Supplementary file 5

Table 5. Bony syngnathia.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Authors | Journal | Year published | Fusion | type | cleft palate | aglossia/microglossia | hypoplastic proximal mandible | TMJankylosis | Other head and neck anomalies | other associated anomalies |
| Kettner | Dtsch Med Wochenschr | 1907 | Maxillomandibular  | 2a | Y | Y | N | N | prominet sublingual ridges | limb anomalies |
| Davis | Surg Gynecol Obstet | 1935 | Maxillomandibular  | 2b | N | N | N | Y |  |  |
| Burket | J Am Med Assoc | 1936 | unilateral maxillomandibular | 2b | N | N | Y | Y | hemifacial atrophy, left Hornor's syndrome, port wine stains |  |
| Hochstetter | Dtsch Med Wochenschr | 1948 | bilateral Maxillomandibular | 1 | Y | N | N | N |  |  |
| Petterson | Acta chir Scand | 1961 | bilateral Maxillomandibular | 2a | Y | Y | Y | N | absent alveolar ridges | limb anomaly |
| Salleh | Oral Surg | 1965 | unilateral maxillomandibular | 1 | N | N | Y | N |  |  |
| Hoggins | Br J Oral Surg | 1969 | midline maxillomandibular | 2a | Y | Y | N | N |  | limb anomalies |
| Bernard R | Pediatrie | 1971 | midline maxillomandibular | 2a | N | Y | N | N |  | limb anomalies |
| Alvarez | Br J Plast Surg | 1976 | bilateral Maxillomandibular | 2a | N | Y | N | N | micrognathia | limb anomalies |
| RM Shah | teratology | 1977 | bilateral Maxillomandibular | 2a | Y | Y | N | N |  |  |
| Miskinyar | Plas Recon Surg | 1979 | unilateral maxillomandibular | 1 | N | N | N | N |  | none |
| Dobrow B | J Clin Dysmorphol | 1983 | bilateral Maxillomandibular | 2b | Y | Y | Y | N | bilateral coloboma, micropthalmos, probable right facial palsy | pilonidal dimple |
| Kittur SD | J Clin Dysmorphol | 1983 | bilateral Maxillomandibular | 2b | Y | Y | Y | N |  |  |
| JR Simpson, MD Maves | Otol head and neck Surg | 1985 | complete zygomaticomaxillomandibular | 2b | Y | Y | Y | N | hypoplastic TMJ, midface hypoplasia | none |
| Nwoku, Kekere-Ekun | J Maxillofac Surg | 1986 | bilateral Maxillomandibular | 1 | N | N | N | N |  |  |
| Brown DM, Marsh JL | Cleft Palate J | 1990 | bilateral Maxillomandibular | 2b | Y | N | Y | Y | hypoplastic ears | Dandy walker malformation, TOF, hypoplastic urogenital tract |
| Traaholt, Lars M | Plas Recon Surg | 1990 | unilateral maxillomandibular | ? | Y | N | N | N | complete right cleft lip, down-slanting eyes, ankyloblepharon | none |
| Goodacre, Wallace | Br J Plast Surg | 1990 | bilateral Maxillomandibular | 1 | N | N | N | Y | exophthalmos | none |
|  |  |  | bilateral Maxillomandibular | N/A | N/A | N/A | N/A | N/A | anomalies not in detail |  |
| Agrawal K | Ann Plast Surg | 1993 | bilateral Maxillomandibular | 1 | N | N | N | N | mandibular hypoplasia  |  |
| MG Gartlan | Ann Otol Thinol Laryngol | 1993 | midline maxillomandibular | 2b | Y | N | Y | Y |  | bilateral leg and arm amputation, fused knees, hyperflexed hips, malformed left lower arm and hand |
| Arshad, Goh | Br J Plast Surg | 1994 | bilateral Maxillomandibular | 1 | N | N | N | N | none | none |
|  |  |  | midline maxillomandibular | 2a | N | Y | N | N |  |  |
| S Kamata, K Satoh, T Uemura | Br J Plast Surg | 1996 | bilateral zygomaticomaxillomandibular | 2b | N | N | Y | Y | mandibular hypoplasia, bilateral low set ears, absent right external auditory meatus | none |
| Behnia H, Shamse MG | J Oral Maxillofac Surg | 1996 | unilateral maxillomandibular | 2b | N | N | Y | Y | left facial hypoplasia, coloboma, beaklike nose, low set ears, preauricular skin tags |
| Rao S, Oak S | Br J Plast Surg | 1997 | midline maxillomandibular | 2a | N | Y | N | N | bifid anterior 2/3 tongue, cleft of mandible |  |
| KH Dawson | cleft palate craniofacial J | 1997 | bilateral Maxillomandibular | 2a | Y | Y | N | N | microstomia | difficient extremities,  |
| KH Dawson | cleft palate craniofacial J | 1997 | unilateral maxillomandibular | 2b | N | N | Y | Y | left face soft tissue hypoplasia, left facial nerve weakness, left orbit inferiorly displaced, left hypoplastic maxilla  | mosaic trisomy 8, left polycystic kidney, patent ductus arteriosus, hypothyroidism, and type 1 diabetes melitus. |
| KH Dawson | cleft palate craniofacial J | 1997 | unilateral maxillomandibular | 2b | N | N | Y | Y | general facial hypoplasia |  |
| KH Dawson | cleft palate craniofacial J | 1997 | unilateral maxillomandibular | 2b | Y | N | Y | Y | orbital dystopia, cleft tessier type 6, right coloboma, right face hypoplasia, hypoplasia and inferiror displacement of right ear.  |  |
| KH Dawson | cleft palate craniofacial J | 1997 | unilateral maxillomandibular | 2b | Y | N | Y | Y | small ear tags bilerally, classic Treacher Collins sydrome with deficient zygoma |  |
| Ugurlu | J Craniofac Surg | 1999 | Bilateral maxillomandibular | 2b | N | N | Y | Y | flat nose, hypertelorism, hypoplastic mandible, median cleft mandible |  |
| Yazdi, Fakhree | Arch Iran Med | 2000 | bilateral Maxillomandibular | 1 | N | N | N | N |  |  |
| B Knoll, D Karas, JA Persing | Craniofac Surg | 2000 | bilateral Maxillomandibular | 2a | N | Y | Y | N | bony shelf on the palate's lingual surface, soft tissue mass between the oral floor and the maxilla, micrognathia, unilateral choanal atresia, constricted left ear, flattened nasal tip | limited both elbow flexion, contracture of left wrist and PIP joints, extended right wrist and fingers with hypoplastic right thumb, ectrodactyly of index, ring and little fingers, left club foot |
| Z. Laster, D. Temkin, Y. Zarfin et al | Int. J. Oral Maxillofac. Surg | 2001 | bilateral zygomaticomaxillomandibular | 2a | Y | N | N | N | Palatal cleft, antimongoloid slant of the palpebral fissures, colobomata in the lateral aspect of the lower eyelid, epicanthal folds, long abundant eyelashes with brush like appearance, and low-set ears. | N/A |
| Verloes A | Clin Dysmorphol | 2004 | unilateral maxillomandibular | 2b | N | N | Y | N | coloboma, facial asymmetry, microcephaly, narrow forehead, upslanted palpebral fissures, round dystrophic ears, midface hypoplsia, retrognathism mental retard | vertebral segmentation defect |
| John Spencer M. Daniels | J Craniofac Surg | 2004 | bilateral Maxillomandibular | 1 | N | N | N | N | bilateral bony fusion between the zygomatic bones, maxillary tuberosities and the ascending and horizontal rami of the mandible | none |
| JS Daniels | J Craniomaxillofac Surg | 2004 | bilateral zygomaticomaxillomandibular | 2b | N | N | Y | N | micrognathism |  |
| ugurlu K, Karsidag S | J Craniofac Surg | 2005 | bilateral zygomaticomaxillomandibular | 2b | N | N | Y | N | significant mandibular hypoplasia |  |
| Nikolic S | J Oral Maxillofac Surg | 2006 | unilateral maxillomandibular | 1 | N | N | N | N | none | none |
| Shams MG | Oral Surg Oral Med Oral Pathol Oral Radiol Endod | 2006 | unilateral maxillomandibular | 1 | N | N | N | N | obstruction of left lacrimal duct | none |
| Mir MA | Internet J Plast Surg | 2007 | bilateral Maxillomandibular | 1 | N | N | N | N | none | none |
| DJ Trigg, IT Mau, KW Rosbe | Arch Orolaryngol Head Neck Surg | 2007 | bilateral Maxillomandibular | 1 | N | N | N | N | micrognathia, mild midface hypoplasia | micrognathia |
| Vahidi K | J Ultrasound Med | 2007 | bilateral Maxillomandibular | 2b | N | N | Y | N | severe micrognathia | none |
| Gupta RK | J Pediatr Surg | 2008 | bilateral Maxillomandibular | 2b | N | N | Y | N | mandibular hypoplasia and retrognathia | none |
| Ajike SO, Adeosun OO | Niger J Clin Path | 2008 | bilateral Maxillomandibular | 2b | N | N | Y | N | microretrognathia | pectus excavatum, craniosynostosis |
| Poovazhagi V | Pediatric Oncall | 2009 | bilateral Maxillomandibular | 2b | N | N | Y | N | hypoplasia of mandible | none |
| MC Jongmans, R Pfundt | Clin Dysmorphol | 2010 | bilateral Maxillomandibular | 2b | N | N | Y | N | triangular face with a broad nasal tip, severe mandibular hypoplasia, bilateral choanal atresia  | Bilateral single palmar creases, brachydactyly and adducted thumbs, anus was placed anteriorly and the penis was rather small, abnormal segmentation of the left lung, ASD |
| E Konaş, G Tunçbilek | J Craniofac Surg | 2010 | unilateral maxillomandibular | 2b | Y | N | Y | N | micrognathia, cleft palate (right palatal shelf and components of the soft palate were missing) | double-outlet right ventricle, transposition of the major vessels, VSD, pulmonary stenosis |
| El-Hakim IE, Al-Sebaei MO | Int J Oral Maxillofac Surg | 2010 | bilateral zygomaticomaxillomandibular | 1 | N | N | N | N | retruded mandible | none |
| VG Naikmasur, AP Sattur | Cleft Palate Craniofac J | 2010 | unilateral maxillomandibular | 2b | N | N | Y | Y | retruded mandible, adhesion of the left commissural and retrocommissural soft tissues to the fused arches, absence of the left buccal vestibule  | none |
| R. Halli, V. Kharkara, Y. Kinib | Int J Oral Maxillofac Surg | 2010 | unilateral zygomaticomaxillomandibular | 2b | N | N | Y | Y | everted lower lip,facial asymmetry, hemifacial hypoplasia of the left side and an antimongoloid slant of left eye with a classical bird face deformity | none |
| H. R. Fallahi, M. Naeini | Int J Oral Maxillofac Surg | 2010 | unilateral zygomaticomaxillomandibular | 1 | N | N | N | N | large earlobes, auricular sinuses, bilateral abnormal lateral canthal fissure | none |
| Koeda S | J Oral Maxillofac Surg | 2010 | unilateral maxillomandibular | 2b | N | N | Y | N |  |  |
| LP Martín, MM Pérez | Craniomaxillofac Trauma Reconstr | 2011 | bilateral Maxillomandibular | 2b | Y | N | Y | N |  frontonasal dysmorphism (biﬁd anterior cranium, hypertelorism, blepharophimosis, broad nasal bridge, and broad nasal tip), low set ears, a short neck, biﬁd and protrusive tongue, covered with lanugo, inferior lip and buccolabial sulci malformation, macrostomia | double image of vertebral bodies in the cervical level, minor hiatal hernia |
| A Hegab, A ElMadawy, WM Shawkat | Int J Oral Maxillofac Surg | 2012 | bilateral zygomaticomaxillomandibular | 2b | N | N | Y | N | N/A | N/A |
|   |  | 2012 | bilateral zygomaticomaxillomandibular | 2b | N | N | Y | N | N/A | N/A |
|   |  | 2012 | Unilateral zygomaticomaxillomandibular, unilateral maxillomandibular | 2b | N | N | Y | N | N/A | N/A |
| DP Tauro, NK Kallappanavar | Cleft Palate Craniofac J | 2012 | Unilateral zygomaticomaxillomandibular, unilateral maxillomandibular | 1 | N | N | N | N | unilateral anophthalmic orbit | none |
| GC Rezende, AK Pereira | J Med Ultrasonics  | 2013 | bilateral Maxillomandibular | 2b | N | N | Y | N | bilateral microphthalmia, small low-set ears, microcephaly, craniosynostosis, prominent forehead, wide palpebral ﬁssures with outer edges unfused, tufts of hair on the scalp, high nasal bridge, broad nasal dorsum and depressed nasal tip, short nasolabial distance | N/A |
| AE Madi, K Khattala | J Neonat Surg | 2014 | bilateral Maxillomandibular | 1 | N | N | N | N | retrognathia | N/A |
| E Konaş, G Tunçbilek | J Craniofac Surg | 2015 | bilateral zygomaticomaxillomandibular | 2b | Y | Y | Y | N | microstomia | N/A |
| SD Patel,S Porras, M Lypka | J Craniomaxillofac Surg | 2015 | unilateral maxillomandibular | ? | N | N | N | N | coloboma of left pupil, hypertelorbitism, disrupted left nasolacrimal system, palpable hard and soft tissue mass at the left cheek with irregularity of overlying skin with mucous drainage, maxillary duplication, cleft of left nasal floor extended to left ala and bony cleft of left nasal floor extending into the left medial orbital rim, left choanal stenosis | situs inversus, dextrocardia, coarctation of aorta |
| L Mahgoub, C Joynt, R Bhargava | Cleft Palate Craniofac J | 2015 | unilateral maxillomandibular | 2b | N | N | Y | Y | dysplastic left TMJ, midline mandibular cleft, mild hypertelorism, mild frontal bossing, low nasal bridge, upward slant to palpebral ﬁssures, and micrognathia, absent septum pellucidum, optic nerve hypoplasia, middle interhemispheric fusion, azygous artery | butterﬂy and hemi-vertebrae at the thoracolumbar region (from the 10th thoracic to the 2nd lumbar vertebrae, hypomelanosis of Ito at trunk |
| AB Ozer, U Karatepe, AY Altun | J Clin Anesth | 2016 | unilateral maxillomandibular | 2b | N | N | Y | Y | N/A | N/A |
| M Broome, Y Via, S Jacquemont | Pediatr Neonatol | 2016 | bilateral zygomaticomaxillomandibular | 2b | Y | N | Y | N | right paramedian palatine cleft, left choanal atresia, microstomia, severe micrognathia, brachycephaly, low set ears, complete bilateral deafness | micropenis with distal hypospadias, bilateral cryptorchidism, camptodactyly with adductus thumbs, clinodactyly, partial syndactyly of second and third toes, single umbilical artery |
| A Khasgiwala, S Jangam | Contemp Clin Dent | 2016 | bilateral Maxillomandibular | 1 | N | N | N | N | none | TE fistula type C |
| AH Al-Mahdi, DA Koppel | J Craniofac Surg | 2016 | bilateral zygomaticomaxillomandibular | 1 | N | N | N | N | none | none |
| J Rough, DI Hindin | J Craniofac Surg | 2016 | Unilateral zygomaticomaxillomandibular | 2b | N | N | Y | N | facial asymmetry (Right lower face hypoplasia) |  central abdominal omphalocele and ASD and immature retinal vascularization |
| Kumar S, et al. | Br J Oral Maxillofac Surg | 2016 | Unilateral zygomaticomaxillomandibular | 1 | N | N | N | N | atrophic skin adjacent to the commissures adhered firmly to the underlying tissues | N/A |
| Özel A, et al. | Br J Oral Maxillofac Surg | 2016 | Unilateral zygomaticomaxillomandibular | 2b | N | N | Y | N | deviated chin to the left with retruded mandible | N/A |
| YK Sarin, P Raj, M Arya | J Neonat Surg | 2017 | bilateral Maxillomandibular | 2b | Y | N | Y | Y | side cleft palate, retrognathia and micrognathia, microcephaly | N/A |
| MC Casas, RS Giana | Taiwan J Obstet Gynecol | 2018 | bilateral Maxillomandibular | 1 | N | N | N | N | wide, low and flatten base of nose, forked tongue, agenesis of corpus callosum, widening sella turcica | widening and flattening of cervical vertebra, hidden spina bifida at LS region |

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