**Supplementary Table 1.** Literature review of salivary gland parenchyma and ducts anomalies. SG = Salivary gland; PG = Parotid gland; SMG = Submandibular gland; SLG = Sublingual gland; PD = Parotid gland; SMD = Submandibular gland. Complete reference list is at the end of the table.

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| **Author** | **Year** | **Main features** |
| 1. ***Major SGs anomalies*** | | |
| Bradbury EP | 1879 | Major SGs aplasia |
| Ramsey WR | 1924 | Major SGs and lacrimal puncta aplasia (familial form) |
| Blackmar BB | 1925 | Major SGs aplasia |
| Rule DC | 1969 | Major SGs aplasia |
| Smith NJD, Smith PB | 1977 | Major SGs aplasia (familial form) |
| McDonald FG et al. | 1986 | Major SGs aplasia and lacrimal glands hypoplasia |
| Higashino H et al. | 1987 | Major SGs and lacrimal puncta aplasia |
| Whyte AM, Hayward MWJ | 1989 | Major SGs aplasia |
| Higasa R et al. | 1989 | Major SGs aplasia |
| Tokumime H et al. | 1990 | Major SGs aplasia |
| Milunsky JM et al. | 1990 | Major SGs aplasia, lacrimal glands hypoplasia and SMG hypofunction |
| Ashikagaya M et al. | 1991 | Major SGs aplasia |
| Myers MA et al. | 1994 | Major SGs aplasia and impaired lacrimal secretion |
| Gelbier MJ, Winter GB | 1995 | Major SGs and lacrimal puncta aplasia |
| Matsuda C et al. | 1999 | Major SGs aplasia and cleft lip and palate |
| Ferreira PS, Gomez RS | 2000 | Major SGs and lacrimal puncta aplasia (familial form) |
| Ferguson MM, Ponnambalam Y | 2005 | Major SGs aplasia (Down syndrome) |
| Kwon SY et al. | 2006 | Major SGs and lacrimal puncta aplasia (familial form) |
| Heath N et al. | 2006 | Major SGs aplasia |
| Champan DB et al. | 2009 | Major SGs and lacrimal glands aplasia (LADD syndrome) |
| Gok F et al. | 2010 | Major SGs and lacrimal glands aplasia |
| Pham Dang et al. | 2010 | Major SGs aplasia |
| Taji SS et al. | 2011 | Major SGs aplasia |
| Yan Z et al. | 2012 | Major SGs aplasia and unilateral lacrimal puncta aplasia |
| Mohan RP et al. | 2013 | Major SGs aplasia |
| Berta E. et al. | 2013 | Major SGs aplasia (LADD syndrome) |
| Odeh MM et al. | 2013 | Major SGs aplasia (Down syndrome) |
| Chadi MJ et al. | 2017 | Major SGs aplasia (Down syndrome) |
| 1. ***PG aplasia*** | | |
| Poirier H | 1881 | Bilateral PG aplasia |
| Raison J | 1925 | Bilateral PG aplasia |
| Schreiber H | 1927 | Unilateral PG aplasia and contralateral PG hypoplasia |
| Nayak UV, Ayyar AA | 1927 | Bilateral PG aplasia |
| de Morales-Grey J | 1937 | Unilateral PG aplasia |
| Kabakov BD | 1949 | Unilateral PG aplasia |
| Vogel VC | 1978 | Bilateral PG and SMG aplasia and lacrimal canaliculi atresia |
| Wiesenfeld D et al. | 1983 | Bilateral PG aplasia (familial form) |
| Wiesenfeld D et al. | 1985 | Unilateral PG aplasia (familial form) |
| Kelly SA et al. | 1990 | Unilateral PG aplasia and contralateral PG sialosis |
| Almadori G et al. | 1997 | Unilateral PG aplasia and controlateral PG hypertrophy |
| Bhide VN, Warshawsk RJ | 1998 | Unilateral PG aplasia and ispilateral accessory parotid tissue |
| Sichel JY et al. | 1998 | Unilateral PG aplasia and first branchial cleft cyst |
| Gomez RS et al. | 1998 | Bilateral PG and lacrimal puncta aplasia |
| Hyang SJ et al. | 1999 | Unilateral PG aplasia and contralateral PG hypertrophy and ductal atresia |
| Martinez Subias J et al. | 2000 | Unilateral PG aplasia and contralateral PG hypertrophy |
| Goldenberg D et al. | 2000 | Bilateral PG aplasia and bilateral accessory parotid tissue |
| Daniel SJ et al. | 2003 | Unilateral PG aplasia and contralateral PG hypertrophy |
| Martin-Granizo R, Garcia-Gonzales D | 2004 | Unilateral PG aplasia and contralateral PG hypertrophy |
| Salvinelli F et al. | 2004 | Unilateral PG aplasia, ispilateral angioma and thyroid hypoplasia |
| Karakoc O et al. | 2005 | Unilateral PG aplasia and contralateral PG pleomorphic adenoma |
| Kim SH et al. | 2005 | Bilateral PG, SMG and lacrimal glands aplasia with occluded lacrimal puncta |
| D’Ascanio L et al. | 2006 | Unilateral PG aplasia and ispilateral cheek angioma and thyroid hypoplasia |
| Antoniades DZ et al. | 2006 | Bilateral PG aplasia and accessory parotid tissue |
| Al-Talabani N et al. | 2008 | Bilateral PG aplasia |
| Lee BH et al. | 2010 | Unilateral PG aplasia and ispilateral pleomorphic adenoma |
| Higley MJ et al. | 2010 | Bilateral PG aplasia and accessory parotid tissue |
| Yilmaz YF et al. | 2010 | Bilateral PG aplasia (Klinefelter syndrome) |
| Chen Y-K et al. | 2011 | Unilateral PG aplasia |
| Udall S, Cho SY | 2011 | Unilateral PG aplasia |
| Capaccio P et al. | 2012 | Unilateral PG aplasia and accessory parotid tissue |
| Seith AB et al. | 2013 | Unilateral PG aplasia and pleomorphic adenoma of ipsilateral accessory parotid tissue |
| Sun L et al. | 2013 | Unilateral PG aplasia, facial cleft and accessory parotid gland |
| Gunbey HP et al. | 2014 | Unilateral PG aplasia and contralateral PG hypertrophy |
| Ozcelik D et al. | 2014 | Unilateral PG aplasia and ipsilateral facial cleft, accessory mandible and facial weakness |
| Teymoortash A, Hoch S | 2016 | Unilateral PG aplasia and contralateral cheek lipoma |
| 1. ***SMG aplasia*** | | |
| Grϋber W | 1885 | Bilateral SMG aplasia |
| Bruno et al. | 1894 | Unilateral SMG aplasia |
| Nayak UV, Ayyar AA | 1927 | Unilateral SMG aplasia |
| Abdel-Dayem HM | 1978 | Unilateral SMG aplasia |
| Kubo S et al. | 1990 | Unilateral SMG aplasia |
| Abe SK et al. | 1990 | Unilateral SMG aplasia |
| Garcia-Consuegra L et al | 1999 | Unilateral SMG aplasia |
| Yilmaz MD et al. | 2002 | Unilateral SMG aplasia |
| Fracaro MS et al. | 2002 | Bilateral SMG aplasia |
| Singh P et al. | 2004 | Bilateral SMG aplasia (ectodermal dysplasia) |
| Roh JL | 2006 | Unilateral SMG aplasia |
| Koo et al. | 2006 | Unilateral SMG aplasia |
| Srinivasan A et al. | 2006 | Unilateral SMG aplasia and ipsilateral SLG hypertrophy |
| Shipchandler TZ et al. | 2008 | Unilateral SMG aplasia |
| Mathison CC, Hudgins PA | 2008 | Bilateral SMG aplasia and SLG hypertrophy |
| Gallego L et al. | 2009 | Unilateral SMG aplasia |
| Ahmed M et al. | 2009 | Bilateral SMG aplasia and SLG hypertrophy |
| Herrera-Calvo G et al. | 2011 | Unilateral SMG aplasia and ispilateral SLG hypertrophy |
| Hahtanir A | 2012 | Bilateral SMG aplasia and bilateral SLG hypertrophy |
| Garcia Reija et al. | 2013 | Bilateral SMG aplasia, SLG hypertrophy and cleft lip and palate |
| Bhoil R et al. | 2016 | Unilateral SMG aplasia |
| 1. ***Other SG anomalies*** | | |
| Youngs LA, Scofield HH | 1967 | Heterotopic SG tissue in the lower neck |
| Singer MI et al. | 1979 | Heterotopic SG tissue in the neck |
| Goodman RS et al. | 1981 | Heterotopic SG tissue and branchial cleft sinus |
| Sharma PD and Dawkins RS | 1984 | Huschke foramen |
| Yamasaki H et al. | 1986 | Heterotopic PG with cheek fistula |
| Janke PG, Rivon RP | 1988 | Huschke foramen |
| Janke PG, Rivron PR | 1988 | Huschke foramen |
| Hawke M et al. | 1988 | Huschke foramen |
| Heffez L et al. | 1989 | Huschke foramen |
| Rodgers GK et al. | 1990 | Heterotopic SG tissue in the neck, with pleomorphic adenoma |
| Panda NK et al. | 1990 | Huschke foramen |
| Wang RG et al. | 1991 | Huschke foramen |
| Zhao K et al. | 1992 | Heterotopic PG with cheek fistula and ispilateral preauricular appendage |
| Moon WK et al. | 1995 | Heterotopic PG with cheek fistula and ispilateral preauricular appendage |
| Lassaletta-Atienza L et al. | 1998 | Heterotopic SG tissue in the lower neck |
| Köybaşioğlu A et al. | 2000 | Accessory SMG with WD obstruction |
| White DK et al. | 2001 | Accessory salivary tissue |
| Gerhards F et al. | 2001 | Heterotopic SG tissue |
| Kawahara K et al. | 2001 | SMD dilatation |
| Lee DH | 2002 | Heterotopic PG with buccal mucosa fistula |
| Chilla R | 2002 | Huschke foramen |
| Tasar M, Yetiser S | 2003 | Huschke foramen |
| Langer J, Begall K | 2004 | Huschke foramen |
| Rushton VE and Pemberton MN | 2005 | Huschke foramen |
| Hsu RF et al. | 2006 | Heterotopic SG tissue with remnants of II branchial cleft (familial form) |
| Gadodia A et al. | 2007 | Accessory SMG and SMD |
| Gadodia A et al. | 2008 | Accessory PG with congenital cheek fistula and ispilateral preauricular appendage |
| Hah JK et al. | 2008 | Heterotopic PG with cheek fistula and ispilateral preauricular appendage |
| De Zoysa N et al. | 2009 | Huschke foramen |
| Sanli EC et al. | 2010 | Bilateral heterotopic SMG in the upper neck |
| Pinto FR et al. | 2012 | Heterotopic PG with cheek fistula and ispilateral preauricular appendage |
| Cannon DE et al. | 2012 | Heterotopic SG tissue in the lower neck |
| Bryan S et al. | 2013 | Accessory SMG and pleomorphic adenoma |
| Natasha S | 2014 | Heterotopic PG with intraoral opening |
| Desai RS et al. | 2015 | Accessory SMG and pleomorphic adenoma |
| Sun ZP et al. | 2015 | Heterotopic PG with cheek fistula, ispilateral preauricular appendage and mandibular hypoplasia |
| Dutta M | 2016 | Heterotopic PG with cheek fistula |
| Nayak SB | 2018 | Accessory SMG |
| 1. ***Salivary duct anomalies*** | | |
| Rose BH | 1932 | SMD duplication |
| Scher LB, Scher I | 1955 | Bilateral SMD orifice atresia |
| Beke et al. | 1963 | SLD orifice atresia |
| Myenson M et al. | 1966 | Bilateral SMD duplication |
| Dore P, Dozin A | 1968 | Unilateral SMD orifice atresia |
| Forethic EA | 1973 | Bilateral SMD orifices atresia |
| Jafeck BW, Strifo JL | 1973 | SMG lobe duplication |
| Rahmothulla M | 1973 | Accessory SMD |
| Hoggings GS, Hutton JB | 1974 | SLD orifice atresia |
| Towers JF et al. | 1977 | SMD duplication |
| Addante RR | 1984 | Unilateral SMD orifice atresia |
| Mori S et al. | 1986 | Accessory SMD |
| Grundfast KM et al. | 1987 | Cutaneous PD orifice and ispilateral preauricular skin tags |
| Pownell PH et al. | 1992 | Unilateral SMD orifice atresia |
| Pownell PH et al. | 1992 | Bilateral SMD orifice atresia |
| Pownell PH et al. | 1992 | Unilateral SMD duplication |
| Codjambopoulo P et al. | 1992 | SMD and SMG duplication |
| Chen SR et al. | 2000 | SMD duplication |
| Amin MA, Bailey BMW | 2001 | SMD orifice atresia |
| Hoffrichter MS et al. | 2001 | Bilateral SMD orifice atresia |
| Aktan ZA et al. | 2001 | Unilateral PD duplication |
| Walker P | 2005 | SMD orifice atresia |
| Capaccio P et al. | 2007 | Bilateral SMD atresia |
| Pal K, Abdulla AM | 2007 | Congenital SMD orifice atresia |
| Ulualp SO et al. | 2007 | Bilateral SMD orifice atresia |
| Gadodia A et al. | 2007 | Accessory SMD and SMG |
| Samantha PP et al. | 2007 | Ectopic accessory PD |
| Rosow DE et al. | 2009 | Unilateral SMD atresia |
| Fernandens ACS et al. | 2009 | PD duplication |
| Ellegard E, Kjellmer I | 2010 | SMD orifice atresia |
| Astik RB, Dave UH | 2011 | Bilateral PD duplication |
| Mandel L, Alfi D | 2012 | Unilateral SMD orifice atresia |
| Aronovich S, Edwards SP | 2014 | Bilateral SMD orifice atresia |
| Taheri MHD et al. | 2015 | Unilateral PD duplication |
| Prosdocimo ML et al. | 2018 | SMD orifice atresia |

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