**Supplementary Table 1: Disease related mutations of GATA1 – GATA6 zinc fingers with clinical phenotype from previously reported studies as depicted in figure 1.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Gene** | **Amino acid change** | **Phenotype** | **Literature reference** |
| GATA1 | Val205Met | XLT | (Ref. [1](#_ENREF_1))  |
| GATA1 | Gly208Arg | XLT, XLT with MDS | (Ref. [2](#_ENREF_2), [3](#_ENREF_3), [4](#_ENREF_4)) |
| GATA1 | Gly208Ser | XLT | (Ref. [5](#_ENREF_5)) |
| GATA1 | Arg216Gln | XLTT | (Ref. [6](#_ENREF_6), [7](#_ENREF_7), [8](#_ENREF_8), [9](#_ENREF_9)) |
| GATA1 | Arg216Trp | CEP | (Ref. [10](#_ENREF_10)) |
| GATA1 | Asp218Gly | XLT | (Ref. [11](#_ENREF_11)) |
| GATA1 | Asp218Tyr | XLT | (Ref. [12](#_ENREF_12)) |
| GATA2 | Arg293Gln | AML | (Ref. [13](#_ENREF_13)) |
| GATA2 | Arg307Leu | AML | (Ref. [14](#_ENREF_14)) |
| GATA2 | Arg307Trp | AML | (Ref. [15](#_ENREF_15)) |
| GATA2 | Arg308Pro | AML | (Ref. [14](#_ENREF_14), [15](#_ENREF_15), [16](#_ENREF_16)) |
| GATA2 | Asn317His | AML | (Ref. [13](#_ENREF_13)) |
| GATA2 | Asn317Ile | AML | (Ref. [14](#_ENREF_14), [15](#_ENREF_15))  |
| GATA2 | Asn317Ser | AML | (Ref. [14](#_ENREF_14)) |
| GATA2 | Ala318Gly | AML | (Ref. [13](#_ENREF_13)) |
| GATA2 | Ala318fs | MDS with myeloid transformation | (Ref. [17](#_ENREF_17)) |
| GATA2 | Ala318Thr | AML | (Ref. [13](#_ENREF_13), [15](#_ENREF_15))  |
| GATA2 | Ala318Val | (paediatric) AML | (Ref. [13](#_ENREF_13), [14](#_ENREF_14), [15](#_ENREF_15), [18](#_ENREF_18)) |
| GATA2 | Gly320Asp | AML | (Ref. [13](#_ENREF_13), [14](#_ENREF_14)) |
| GATA2 | Gly320Val | AML | (Ref. [15](#_ENREF_15)) |
| GATA2 | Leu321Arg | AML | (Ref. [14](#_ENREF_14)) |
| GATA2 | Leu321His | AML | (Ref. [14](#_ENREF_14)) |
| GATA2 | Leu321Phe | AML | (Ref. [13](#_ENREF_13), [14](#_ENREF_14), [15](#_ENREF_15)) |
| GATA2 | Leu321Pro | AML | (Ref. [13](#_ENREF_13), [15](#_ENREF_15)) |
| GATA2 | Leu321Val | AML | (Ref. [13](#_ENREF_13), [14](#_ENREF_14)) |
| GATA2 | Gln328Pro | AML | (Ref. [13](#_ENREF_13)) |
| GATA2 | Asn329Gln | AML | (Ref. [13](#_ENREF_13), [14](#_ENREF_14), [15](#_ENREF_15)) |
| GATA2 | Arg330Leu | AML | (Ref. [15](#_ENREF_15)) |
| GATA2 | Arg330Pro | AML | (Ref. [15](#_ENREF_15)) |
| GATA2 | Arg330\* | MDS with myeloid transformationAML | (Ref. [17](#_ENREF_17), [19](#_ENREF_19)) |
| GATA2 | Leu332fs | Emberger syndrome | (Ref. [20](#_ENREF_20)) |
| GATA2 | Arg337\* | Emberger syndrome | (Ref. [21](#_ENREF_21)) |
| GATA2 | Arg337\* | MonoMACMDSEmberger syndrome | (Ref. [17](#_ENREF_17), [21](#_ENREF_21), [22](#_ENREF_22))  |
| GATA2 | Ser340\_Asn381del | MDSMonoMAC | (Ref. [23](#_ENREF_23)) |
| GATA2 | Ala341fs | Emberger syndrome | (Ref. [21](#_ENREF_21), [23](#_ENREF_23)) |
| GATA2 | Ala342fs | NK-cell deficiency | (Ref. [24](#_ENREF_24)) |
| GATA2 | Ala342Thr | Paediatric AML | (Ref. [25](#_ENREF_25)) |
| GATA2 | Ala350\_Asn351ins8 | AML | (Ref. [16](#_ENREF_16)) |
| GATA2 | Thr354Lys | AML | (Ref. [14](#_ENREF_14)) |
| GATA2 | Thr354Met | MonoMACAMLMDSNK-cell deficiency | (Ref. [17](#_ENREF_17), [20](#_ENREF_20), [22](#_ENREF_22), [23](#_ENREF_23), [24](#_ENREF_24), [26](#_ENREF_26), [27](#_ENREF_27), [28](#_ENREF_28), [29](#_ENREF_29), [30](#_ENREF_30), [31](#_ENREF_31)) |
| GATA2 | Thr355del | Familial MDS | (Ref. [27](#_ENREF_27)) |
| GATA2 | Thr357Ser | Paediatric AML | (Ref. [25](#_ENREF_25)) |
| GATA2 | Thr358Lys | AML/MDS | (Ref. [32](#_ENREF_32)) |
| GATA2 | Leu359Val | AML/MDSacute myeloid transformation of CMLCML | (Ref. [32](#_ENREF_32), [33](#_ENREF_33), [34](#_ENREF_34)) |
| GATA2 | Arg361Cys | Emberger syndromeMonoMAC and MDSMDS with myeloid transformation | (Ref. [17](#_ENREF_17), [22](#_ENREF_22), [23](#_ENREF_23)) |
| GATA2 | Arg361His | AMLMDS with myeloid transformation | (Ref. [14](#_ENREF_14), [17](#_ENREF_17)) |
| GATA2 | Arg361Leu | Emberger syndrome | (Ref. [21](#_ENREF_21)) |
| GATA2 | Arg362\_Asn365del | MDS with myeloid transformationDCML | (Ref. [24](#_ENREF_24), [29](#_ENREF_29), [35](#_ENREF_35)) |
| GATA2 | Arg362Gln | (paediatric) AML | (Ref. [14](#_ENREF_14), [18](#_ENREF_18), [25](#_ENREF_25)) |
| GATA2 | Arg362Gly | Paediatric AML | (Ref. [18](#_ENREF_18), [25](#_ENREF_25)) |
| GATA2 | Arg362Pro | Paediatric AML | (Ref. [18](#_ENREF_18), [25](#_ENREF_25)) |
| GATA2 | Arg362fs | Paediatric AML | (Ref. [18](#_ENREF_18)) |
| GATA2 | Asp367fs | MonocytopeniaMDS with myeloid transformationMonoMAC | (Ref. [17](#_ENREF_17), [22](#_ENREF_22)) |
| GATA2 | Asn371Lys | MDS with myeloid transformationDCML | (Ref. [17](#_ENREF_17), [29](#_ENREF_29)) |
| GATA2 | Ala372Thr | AML | (Ref. [19](#_ENREF_19)) |
| GATA2 | Cys373Arg | Emberger syndrome | (Ref. [21](#_ENREF_21)) |
| GATA2 | Cys373\_Tyr377del | MDS with myeloid transformation | (Ref. [17](#_ENREF_17)) |
| GATA2 | Leu375Ile | Paediatric AML | (Ref. [25](#_ENREF_25)) |
| GATA2 | Leu379Gln | AML | (Ref. [14](#_ENREF_14)) |
| GATA2 | Met388Thr | MonoMACMonocytopeniaLaryngeal cancer | (Ref. [17](#_ENREF_17), [22](#_ENREF_22)) |
| GATA2 | Met388Val | DCML | (Ref. [19](#_ENREF_19)) |
| GATA2 | Lys390del | MDS | (Ref. [23](#_ENREF_23)) |
| GATA2 | Arg396Gln | MonoMACDCML and MDSMDS with myeloid transformationAMLLow B-cell | (Ref. [17](#_ENREF_17), [19](#_ENREF_19), [22](#_ENREF_22), [31](#_ENREF_31), [36](#_ENREF_36)) |
| GATA2 | Arg396Glu | MDSAML | (Ref. [26](#_ENREF_26)) |
| GATA2 | Arg396Trp | MonoMAC and MDSMDS with myeloid transformation | (Ref. [17](#_ENREF_17)) |
| GATA2 | Arg398Gln | MonoMAC | (Ref. [23](#_ENREF_23)) |
| GATA2 | Arg398Trp | DCMLMonoMACMDS (with myeloid transformation)CMMLNK-cell deficiency | (Ref. [17](#_ENREF_17), [22](#_ENREF_22), [23](#_ENREF_23), [24](#_ENREF_24), [31](#_ENREF_31), [37](#_ENREF_37)) |
| GATA3 | Arg261Gly | HDR syndrome | (Ref. [38](#_ENREF_38)) |
| GATA3 | Ser270fs | T-ALL | (Ref. [39](#_ENREF_39)) |
| GATA3 | Thr271Ile | HDR syndrome | (Ref. [40](#_ENREF_40), [41](#_ENREF_41)) |
| GATA3 | Trp274Arg | HDR syndrome | (Ref. [42](#_ENREF_42)) |
| GATA3 | Trp274Leu | HDR syndrome | (Ref. [43](#_ENREF_43)) |
| GATA3 | Arg275Gln | T-ALL | (Ref. [39](#_ENREF_39)) |
| GATA3 | Arg275Trp | T-ALL | (Ref. [39](#_ENREF_39)) |
| GATA3 | Arg276Pro | HDR syndrome | (Ref. [44](#_ENREF_44)) |
| GATA3 | Arg276\* | HDR syndrome | (Ref. [45](#_ENREF_45), [46](#_ENREF_46)) |
| GATA3 | Asn285Thr | T-ALL | (Ref. [39](#_ENREF_39)) |
| GATA3 | Met293Lys | Breast cancer | (Ref. [47](#_ENREF_47), [48](#_ENREF_48), [49](#_ENREF_49)) |
| GATA3 | Lys302\* | HDR syndrome | (Ref. [38](#_ENREF_38), [50](#_ENREF_50)) |
| GATA3 | Ser308fs | Breast cancer | (Ref. [51](#_ENREF_51)) |
| GATA3 | Ser308\* | Breast cancer | (Ref. [51](#_ENREF_51)) |
| GATA3 | Ala309\_Ala313del | T-ALL | (Ref. [39](#_ENREF_39)) |
| GATA3 | Thr315\_Ala318del | HDR syndrome | (Ref. [45](#_ENREF_45)) |
| GATA3 | Thr315fs | Breast cancer | (Ref. [51](#_ENREF_51)) |
| GATA3 | Cys317fs | HDR syndrome | (Ref. [52](#_ENREF_52)) |
| GATA3 | Cys317Arg | HDR syndrome | (Ref. [53](#_ENREF_53)) |
| GATA3 | Cys317Ser | HDR syndrome | (Ref. [38](#_ENREF_38)) |
| GATA3 | Asn319Lys | HDR syndrome | (Ref. [53](#_ENREF_53)) |
| GATA3 | Cys320Ser | HDR syndrome | (Ref. [54](#_ENREF_54)) |
| GATA3 | Thr322fs | Breast cancer | (Ref. [49](#_ENREF_49)) |
| GATA3 | Arg329fs | Breast cancer | (Ref. [47](#_ENREF_47), [48](#_ENREF_48), [55](#_ENREF_55)) |
| GATA3 | Arg329del | Breast cancer | (Ref. [55](#_ENREF_55)) |
| GATA3 | Arg330Lys | Breast cancer | (Ref. [47](#_ENREF_47), [48](#_ENREF_48)) |
| GATA3 | Asn331fs | Breast cancer | (Ref. [47](#_ENREF_47), [48](#_ENREF_48)) |
| GATA3 | Ala332fs | Breast cancer | (Ref. [47](#_ENREF_47), [48](#_ENREF_48), [56](#_ENREF_56)) |
| GATA3 | Asp335fs | Breast cancer | (Ref. [56](#_ENREF_56)) |
| GATA3 | Cys341Tyr | HDR syndrome | (Ref. [57](#_ENREF_57)) |
| GATA3 | Leu343Phe | Breast cancer | (Ref. [51](#_ENREF_51)) |
| GATA3 | Tyr345fs | Breast cancer | (Ref. [49](#_ENREF_49)) |
| GATA3 | Leu347Val | T-ALL | (Ref. [39](#_ENREF_39)) |
| GATA3 | Leu347Arg | HDR syndrome | (Ref. [46](#_ENREF_46)) |
| GATA3 | Arg352Ser | HDR syndrome | (Ref. [58](#_ENREF_58)) |
| GATA3 | Leu354fs | Breast cancer | (Ref. [49](#_ENREF_49)) |
| GATA3 | Leu354\* | HDR syndrome | (Ref. [38](#_ENREF_38), [46](#_ENREF_46)) |
| GATA3 | Met356\* | HDR syndrome | (Ref. [42](#_ENREF_42), [46](#_ENREF_46)) |
| GATA3 | Met356fs | Breast cancer | (Ref. [49](#_ENREF_49)) |
| GATA3 | Lys357\* | Breast cancer | (Ref. [49](#_ENREF_49)) |
| GATA3 | Glu359fs | Breast cancer | (Ref. [49](#_ENREF_49)) |
| GATA3 | Arg364Gly | Breast cancer | (Ref. [49](#_ENREF_49)) |
| GATA3 | Arg364Ser | Breast cancer | (Ref. [47](#_ENREF_47), [48](#_ENREF_48)) |
| GATA3 | Arg366Leu | Breast cancer | (Ref. [51](#_ENREF_51)) |
| GATA3 | Arg366\* | HDR syndromeBreast cancer | (Ref. [42](#_ENREF_42), [48](#_ENREF_48), [51](#_ENREF_51), [53](#_ENREF_53), [59](#_ENREF_59)) |
| GATA3 | Ser369\* | HDR syndrome | (Ref. [53](#_ENREF_53)) |
| GATA4 | Glu216Asp | CHD (TOF) | (Ref. [60](#_ENREF_60)) |
| GATA4 | Gly221Arg | Anomalies of human testicular development | (Ref. [61](#_ENREF_61)) |
| GATA4 | Met223Thr | CHD (VSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Pro226= | CHD (VSD) | (Ref. [63](#_ENREF_63)) |
| GATA4 | Pro226fs | CHD (AVSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Pro226Gln | CHD (DCM) | (Ref. [64](#_ENREF_64)) |
| GATA4 | Arg229Ser | CHD (VSD / ASD / AVSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Thr233= | CHD (DORV / PFO / TOF / PA / VSD / AS) | (Ref. [65](#_ENREF_65), [66](#_ENREF_66), [67](#_ENREF_67), [68](#_ENREF_68)) |
| GATA4 | Gly234Ser | CHD (AVSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Asn239= | CHD (VSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Asn239Ser | CHD (VSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Cys241= | CHD (TGA / VSD / ASD) | (Ref. [63](#_ENREF_63), [66](#_ENREF_66)) |
| GATA4 | Tyr244Cys | CHD (VSD / AVSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Tyr244= | CHD (AVSD / TOF /PA / LSVC) | (Ref. [68](#_ENREF_68)) |
| GATA4 | Met247Thr | CHD (AF) | (Ref. [69](#_ENREF_69)) |
| GATA4 | Asn248= | CHD (ASD / VSD) | (Ref. [63](#_ENREF_63)) |
| GATA4 | Asn248Ser | CHD (ASD / AVSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Ile250Asn | CHD (VSD) | (Ref. [63](#_ENREF_63)) |
| GATA4 | Arg252Pro | CHD (AVSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Ile255Thr | CHD (ASD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Arg260Gln | CHD (VSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Leu261Pro | CHD (VSD / ASD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Ser262= | CHD (TOF / PA) | (Ref. [68](#_ENREF_68)) |
| GATA4 | Ala263Gly | CHD (VSD) | (Ref. [70](#_ENREF_70)) |
| GATA4 | Arg266\* | CHD (AVSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Val267Met | CHD (ASD / PDA) | (Ref. [71](#_ENREF_71), [72](#_ENREF_72)) |
| GATA4 | Cys271Ser | CHD (DCM) | (Ref. [73](#_ENREF_73)) |
| GATA4 | Asn273Lys | Pancreatic agenesis | (Ref. [74](#_ENREF_74)) |
| GATA4 | Asn273Ser | CHD (AVSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Cys274= | CHD (TOF / PA / DORV / VSD / TGA / ASD) | (Ref. [66](#_ENREF_66), [67](#_ENREF_67)) |
| GATA4 | Thr277Ile | CHD (AVSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Thr279Ser | CHD (DCM) | (Ref. [64](#_ENREF_64)) |
| GATA4 | Thr280Met | CHD (ASD) | (Ref. [75](#_ENREF_75)) |
| GATA4 | Arg283His | CHD (AVSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Asn285Ser | CHD (TOF) | (Ref. [76](#_ENREF_76)) |
| GATA4 | Asn285Lys | CHD (AVSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Val291Leu | CHD (DCM) | (Ref. [77](#_ENREF_77)) |
| GATA4 | Cys292Arg | CHD (VSD / ASD / AVSD) | (Ref. [62](#_ENREF_62), [78](#_ENREF_78))  |
| GATA4 | Ala294Val | CHD (ASD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Gly296Arg | CHD (VSD) | (Ref. [79](#_ENREF_79)) |
| GATA4 | Gly296Cys | CHD (ASD / PS) | (Ref. [80](#_ENREF_80)) |
| GATA4 | Gly296Ser | CHD (ASD / VSD / AVSD / PS) | (Ref. [81](#_ENREF_81), [82](#_ENREF_82)) |
| GATA4 | His302Arg | CHD (AVSD) | (Ref. [62](#_ENREF_62)) |
| GATA4 | Met310Val | CHD (ASD) | (Ref. [83](#_ENREF_83)) |
| GATA4 | Gln316Glu | CHD (ASD) | (Ref. [67](#_ENREF_67)) |
| GATA4 | Arg318Trp | CHD (ASD)Pancreatic agenesis | (Ref. [84](#_ENREF_84)) |
| GATA4 | Lys319Glu | CHD (ASD / PS) | (Ref. [85](#_ENREF_85)) |
| GATA4 | Leu325= | CHD (ASD) | (Ref. [63](#_ENREF_63)) |
| GATA4 | Lys329Asn | CHD | (Ref. [86](#_ENREF_86)) |
| GATA5 | Arg187Gly | CHD (TOF) | (Ref. [87](#_ENREF_87)) |
| GATA5 | Val190Ala | CHD (VSD / TOF) | (Ref. [88](#_ENREF_88)) |
| GATA5 | Leu199Val | CHD (VSD) | (Ref. [89](#_ENREF_89)) |
| GATA5 | Trp200Gly | CHD (AF) | (Ref. [90](#_ENREF_90)) |
| GATA5 | Asp203Glu | CHD (TOF) | (Ref. [91](#_ENREF_91)) |
| GATA5 | Asp203= | CHD (BAV) | (Ref. [92](#_ENREF_92)) |
| GATA5 | His207Arg | CHD (TOF) | (Ref. [87](#_ENREF_87)) |
| GATA5 | Tyr208\* | CHD (TOF) | (Ref. [91](#_ENREF_91)) |
| GATA5 | Cys210Gly | CHD (AF) | (Ref. [93](#_ENREF_93)) |
| GATA5 | Lys218Thr | CHD (AF) | (Ref. [94](#_ENREF_94)) |
| GATA5 | Leu226= | CHD (BAV) | (Ref. [92](#_ENREF_92)) |
| GATA5 | Leu233Pro | CHD (BAV) | (Ref. [95](#_ENREF_95), [96](#_ENREF_96)) |
| GATA5 | Thr252Pro | CHD (BAV) | (Ref. [97](#_ENREF_97)) |
| GATA5 | Ala266Pro | CHD (AF / TOF) | (Ref. [88](#_ENREF_88), [94](#_ENREF_94)) |
| GATA5 | His274Arg | CHD (VSD) | (Ref. [88](#_ENREF_88)) |
| GATA5 | Lys284= | CHD (BAV) | (Ref. [92](#_ENREF_92)) |
| GATA6 | Gly394Cys | CHD (TOF) | (Ref. [98](#_ENREF_98)) |
| GATA6 | Asp404Tyr | CHD (TOF) | (Ref. [99](#_ENREF_99)) |
| GATA6 | Cys447Arg | Diabetes | (Ref. [100](#_ENREF_100)) |
| GATA6 | Thr452Ala | Pancreatic agenesisCHD (ASD) | (Ref. [101](#_ENREF_101)) |
| GATA6 | Arg456Cys | Pancreatic agenesisCHD (VSD / PTA / TOF)ConHD | (Ref. [101](#_ENREF_101), [102](#_ENREF_102)) |
| GATA6 | Arg456His | Pancreatic agenesisCHD (e.g. PTA and VSD) | (Ref. [101](#_ENREF_101)) |
| GATA6 | Glu460\* | CHD (TOF) | (Ref. [99](#_ENREF_99)) |
| GATA6 | Asn466Asp | Pancreatic agenesisPTA | (Ref. [101](#_ENREF_101)) |
| GATA6 | Asn466His | CHD (PTA) | (Ref. [103](#_ENREF_103)) |
| GATA6 | Asn466Ser | CHDPermanent neonatal diabetes | (Ref. [104](#_ENREF_104)) |
| GATA6 | Ala467Thr | Pancreatic agenesisCHD (ASD / PS) | (Ref. [101](#_ENREF_101)) |
| GATA6 | Gly469Glu | Pancreatic agenesis | (Ref. [100](#_ENREF_100)) |
| GATA6 | Gly469Val | CHD (AF) | (Ref. [105](#_ENREF_105)) |
| GATA6 | Lys473Gln | Pancreatic agenesisCHD (ASD) | (Ref. [101](#_ENREF_101)) |
| GATA6 | Arg479Gly | Pancreatic agenesisCHD (e.g. AVSD, PS) | (Ref. [100](#_ENREF_100)) |
| GATA6 | Met483fs | Pancreatic agenesisCHD | (Ref. [101](#_ENREF_101)) |
| GATA6 | Arg493\* | Pancreatic agenesisCHD | (Ref. [106](#_ENREF_106)) |
| GATA6 | Lys500fs | Pancreatic agenesisCHD (e.g. VSD and PS) | (Ref. [101](#_ENREF_101)) |
| GATA6 | Lys502fs | Pancreatic agenesisCHD (VSD / PTA) | (Ref. [107](#_ENREF_107)) |

*AF* atrial fibrillation; *AML* acute myeloid leukemia; *AS* aortic stenosis; *ASD* atrial septal defect; *AVSD* atrial ventricular septal defect; *BAV* bicuspid aortic valve; *CEP* congenital erythropoietic porphyria; *CHD* congenital heart disease; *CML* chronic myeloid leukemia; *CMML* chronic myelomonocytic leukemia; *ConHD* congenital hernia diaphragmatica; *DCM* dilated cardiomyopathy; *DCML* dendritic cell, monocyte, B lymphocyte, and natural killer lymphocyte deficiency; *DORV* double-outlet right ventricle; *HDR* syndrome hypoparathyroidism, sensorineural deafness and renal insufficiency; *MDS* myelodysplastic syndrome; *PA* pulmonary atresia; *PDA* patent ductus arteriosis; *PFO* patent foramen ovale; *PS* pulmonary valve stenosis; *T-ALL* T-cell acute lymphoblastic leukemia; *TGA* transposition of the great arteries; *TOF* Tetralogy of Fallot; *VSD* ventricular septal defect; *XLTT* X-linked thrombocytopenia with thalassemia; *XLT* X-linked thrombocytopenia

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