**Supplementary Table 1**. Studies and case reports about drugs other than 8-aminoquinolines in G6PD deficient individuals.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Reference** | **Country (Ethnicity or Nationality)** | **G6PD variant** a **(tested or presumed)** | **Drug** | **Indication** | **Dose**b **(oral unless specified)** | **Outcomes** | **N** |
| Degowin, Eppes et al. 1966 | USA (Afro-American) | Presumed A- | Dapsone and PQ | [Clinical trial in healthy volunteers] | 25-300mg daily x 21d | High Dapsone dose causes haemolysis; single 200mg dose does not cause haemolysis | 5 |
| Norden, Desforges et al. 1968 | USA | Presumed A- | Sulfonamide | Bacteraemia UTI | 500mg daily | No haemolysis in G6PDd adults; reticulocytosis in 3 of 4 G6PDd patients | 4 |
| Howell and Cook 1971 | West Indies | Presumed A- | Hycanthone | *Schistosoma mansoni* | 3mg/kg IM single dose | No haemolysis in G6PDd children patients | 6 |
| McCaffrey, Farid et al. 1972 | Egypt | B- | Ambilhar | *Schistosoma mansoni* | 25mg/kg daily x 7d | Compensated drug-induced haemolysis in G6PDd | 1 |
| Owusu 1972 | Ghana | Presumed A- | TMP-SMX (+chloramphenicol) | Typhoid fever | 80+400mg twice daily | AHA case report in G6PDd adult | 1 |
| Glader 1976 | USA (Afro-American and Caucasian) | Presumed A- and others | ASA | [Clinical trial in healthy volunteers] | 50mg/kg daily x 4d | No haemolysis in healthy G6PDd adults | 22 |
| Chugh, Singhal et al. 1977 | Northern India | Presumed Mediterranean | Chloroquine, ASA, Analgin, Chloramphenicol, Phenylbutazone or combinations | Various | Not specified | Acute renal failure | 30 |
| Corash, Spielberg et al. 1980 | Greece | Presumed Mediterranean | Vitamin E | Prevention of haemolysis | 800IU daily x >90d | Improved Hb, less retics, longer RBC half-life | 23 |
| Colonna 1981 | Algeria | Not characterized | ASA | Not specified | some normal some low (400mg in 6yo) | AHA in adult patients- possibly related to ASA | 40 |
| Bartsocas, Schulman et al. 1982 | Greece | Presumed Mediterranean | Paracetamol | Fever | 500mg single dose | AHA case report in G6PDd adult | 1 |
| Meloni, Forteleoni et al. 1982 | Italy | Mediterranean | Feprazone | Fever | 75mg suppository single dose | No haemolysis in G6PDd children patients | 30 |
| Sansone, Reali et al. 1984 | Italy | Presumed Mediterranean | Sodium metasolphan noramidipyrine | Fever | Not specified | AHA case report in G6PDd child (patient with *Salmonella typhi*) | 1 |
| Seeler and Luken 1984 | USA | Presumed A- | ASA (+ penicillin) | Acute rheumatic fever | 100mg/kg daily | AHA possibly induced by ARF before ASA treatment. | 1 |
| Markowitz and Saravolatz 1987 | USA | Presumed A- | TMP-SMX and vancomycin | *Staphylococcus aureus* | 320mg of TMP + 1600mg of SMX IV every 12 hr or vancomycin 1g IV every 12 hr | No haemolysis in G6PDd adult patients | 20 and 25 |
| Galun, Oren et al. 1987 | Israel | Presumed Mediterranean | Phenazopyridine | Urinary tract analgesic | 1200mg single dose | AHA case report G6PDd adult | 1 |
| Piperno, Muzio et al. 1987 | Italy | Presumed Mediterranean | Cimetropium bromide | Antispasmodic | 50mg thrice daily x 1w | No haemolysis in G6PDd healthy volunteers | 10 |
| Meloni, Forteleoni et al. 1989 | Italy | Mediterranean | ASA | Systematic arthritis | 100mg/kg x daily x 10d | AHA case report in G6PDd child | 1 |
| Khalifa, el-Alfy et al. 1989 | Egypt | Presumed Mediterranean | Desferrioxamine B | Haemolytic crisis | 500mg IV added to blood transfusion | Better hematologic outcome when added to transfusion in children with G6PD AHA | 24 |
| Choudhry, Ghafary et al. 1990 | Afghanistan | Presumed Mediterranean | CQ; PMQ; Chloramphenicol+ASA | Malaria | Not specified | AHA in G6PDd patients | 18 |
| Cottafava, Nieri et al. 1990 | Italy | Presumed Mediterranean | Paracetamol | Not specified | Not specified | No haemolysis in G6PDd children | 9 |
| Mehta, Singhal et al. 1990 | India | Presumed Mediterranean or Orissa | Vitamin C |  | Overdose, 3-4g within in 4-6 hr | AHA case report in G6PDd child | 1 |
| Gait 1990 | Worldwide |  | Nitrofurantoin |  | median 400mg | AHA case report G6PDd adults | 107 |
| Byrd and Gelber 1991 | USA | Presumed A- | Dapsone | Leprosy | 100mg daily | Hb decline >2g/dL (retrospective 100 patients) | 100 |
| Salazar, Carlos et al. 1991 | Philippines | Presumed Union | Halofantrine | Acute uncomplicated *P. falciparum* malaria | 1500mg | no haemolysis in G6PDd adults | 2 |
| Eldad, Neuman et al. 1991 | Israel | Presumed Mediterranean | Silver sulphadiazine | Open flame body burn | 1% topical twice daily | AHA case report in G6PDd adult | 1 |
| Rees, Kelsey et al. 1993 | UK (Nigerian) | Presumed A- | Vitamin C | Vitamin deficiency | 40g IV thrice daily, increased at 80g | AHA case report in G6PDd adult; G6PDd and HbAS, HIV+ | 1 |
| Reinke, Thomas et al. 1995 | USA (Afro-American) | Presumed A- | TMP-SMX | AIDS | 50mg/kg daily | AHA case report in G6PDd adult | 1 |
| Reinke, Thomas et al. 1995 | Worldwide | Not characterised | TMP-SMX or SMX alone |  | Several regimens | Review of AHA case reports in G6PDd | 15 |
| Kandil, al-Ghanem et al. 1996 | Kuwait | Presumed Mediterranean or A- | Henna (Lawsone) | Cosmetic | topical | NNJ in newborns with G6PDd | 15 |
| Haliotis, Tzortzinis et al. 1997 | Greece | Presumed Mediterranean | Tolfenamic | Antipyretic | Not specified | No haemolysis in G6PDd children | 10 |
| Chan 1997 | Hong Kong | Not characterized | TMP-SMX | Various | 480mg twice daily x 5d | No haemolysis in subjects aged >15 years treated with drug (retrospective analysis of hospital records) | 2163 (of whom ca.3% were expected to be G6PDd) |
| al-Rimawi, al-Sheyyab et al. 1999 | Jordan | Presumed Mediterranean | Desferrioxamine | Haemolytic crisis | 30-40mg/kg IV added to blood transfusion | Better hematologic outcome when added to transfusion in G6PDd children with AHA | 80 |
| Sood and Midha 2000 | Northern India | Presumed Mediterranean | Streptokinase (+ASA) | Thrombolytic | 1.5million units IV | AHA case report in G6PDd adult | 1 |
| Oliver, Coton et al. 2001 | France (Comorian) | A- | Propacetamol | Headache | Normal dose IV | AHA case report in G6PDd adult | 1 |
| Sklar 2002 | Singapore (Chinese) | Not characterized | Paracetamol | Headache | overdose 10-15g | AHA case report in G6PDd adult | 1 |
| Srivatsa, Bharti et al. 2003 | India | Presumed Mediterranean or Orissa | Nimesulide | Fever | 25 -100 mg single dose | AHA case report in G6PDd children | 2 |
| Vinzio, Andres et al. 2004 | France (Burkina Faso) | A- | Glibencamide + metformin | Diabetes | 5mg twice daily and 850 mg daily | AHA case report in G6PDd adult | 1 |
| Stalnikowicz, Amitai et al. 2004 | Israel | Not characterized | Butyl nitrite | Aphrodisiac | Not specified | AHA case report in G6PDd adults | 3 |
| Mandi, Witte et al. 2005 | Burkina Faso | A- | Methylene blue | Uncomplicated *P. falciparum* malaria | 780mg MB total | No haemolysis in G6PDd healthy adults | 74 |
| Meissner, Mandi et al. 2005 | Burkina Faso | A- | Methylene blue | Uncomplicated *P. falciparum* malaria | 12mg/kg total | No haemolysis in G6PDd children | 24 |
| Browning and Kruse 2005 | USA | Presumed A- | Rasburicase | Acute renal failure secondary to hyperuricemia | 22.5mg IV single dose | AHA case report in G6PDd adult | 1 |
| Krudsood, Wilairatana et al. 2006 | Thailand | Presumed Mahidol or Viangchan | Elubaquine | Anti-relapse *P. vivax* malaria | 25 mg daily x 7d | No haemolysis in G6PDd adults | 3 |
| Foltz, Dalal et al. 2006 | Canada (Filipino) | Presumed Union | Triapine | Metastatic renal cell  carcinoma | Not specified | AHA case report in G6PDd adult | 1 |
| Leslie, Mayan et al. 2007 | Afghanistan and Pakistan | Presumed Mediterranean | CD, SP or CQ | Malaria | 2.0 mg/kg C + 2.5 mg/kg D daily  Or 25mg S and 1.25 mg P on day0 or 250-mg base CQ over 3 days | AHA in G6PDd treated with CD | 1 |
| Fanello, Karema et al. 2008 | Rwanda | A- | CDA | Uncomplicated *P. falciparum* malaria | [2.0 mg/kg C + 2.5 mg/kg D daily + 4 mg/kg daily A] x 3d | Increased anaemia after treatment in G6PDd children | 44 |
| Piette, Taylor et al. 2008 | USA | Presumed A- and others | Dapsone gel | Acne | 5% Topical | No haemolysis in G6PDd children patients >12y | 62 |
| Stotland, Shalita et al. 2009 | USA and Canada | Presumed A- and others | Dapsone gel | Acne | 5% Topical | No haemolysis in G6PDd | 50 |
| Tiono, Dicko et al. 2009 | Burkina Faso | A- | CDA | Uncomplicated *P. falciparum* malaria | [2.0 mg/kg C + 2.5 mg/kg D daily + 4mg/kg daily A] x 3d | Increased % of G6PDd reaching Hb safety endpoint | 48 |
| Chisholm-Burns, Patanwala et al. 2010 | USA (Afro-American) | Presumed A- | TMP-SMX | UTI | 160/800 twice daily x 10d | AHA case report in G6PDd adult | 1 |
| Sansone, Rottensteiner et al. 2010 | Italy | Mediterranean | Ciprofloxacin | Fever | 500mg IV daily x 4d | AHA case report in G6PDd adult | 1 |
| Livshits, Hoffman et al. 2011 | USA (Afro-American) | Presumed A- | Mix of vitamins B and D complex, free amino acids, magnesium, and taurine |  | Not specified | AHA case report in G6PDd adult | 1 |
| Minucci, De Luca et al. 2011 | Italy (Filipino) | Vanua Lava | Paracetamol | Fever | Standard dose for 5y old | AHA case report in G6PDd child | 1 |
| Najafi, Van de Velde et al. 2011 | Belgium (different nationalities) | Not characterized | Paracetamol, ibuprofen, tramadol, sufentanil, and parecoxib | Post-surgery analgesia | standard dose | No haemolysis in G6PDd children patients | 10 |
| Van Malderen, Van Geertruyden et al. 2012 | Africa (7 countries) | A- | CDA | Uncomplicated *P. falciparum* malaria | [2.0 mg/kg daily C + 2.5 mg/kg daily D + 4mg/kg daily A] x 3d | More haemolysis in children CDA group | 26 |
| Sonbol, Yadav et al. 2013 | USA (Afro-American) | Presumed A- | Rasburicase (+ other drugs) | Refractory aggressive multiple myeloma | 6 mg | AHA case report in G6PDd adult | 1 |
| Muller, Mockenhaupt et al. 2013 | West Africa | A- | Methylene blue | Uncomplicated *P. falciparum* malaria | 15 mg/kg daily | No clinically relevant haemolysis in G6PDd children | 161 |
| Cheah, Lew et al. 2013 | Australia (Mauritian-Chinese) | Not characterized | Rasburicase | Tumour lysis syndrome | 6mg | AHA case report in G6PDd adult | 1 |
| Phillpotts, Tash et al. 2014 | UK (Pakistani) | Presumed Mediterranean | Paracetamol | Intentional overdose | Overdose 11 g (196 mg/kg) | AHA case report in G6PDd adult | 1 |
| Geraldino-Pardilla, Sung et al. 2014 | USA (Honduran) | A- | Pegloticase | Severe refractory gout | Normal dose | AHA case report in G6PDd adult | 1 |
| Huang, Chang et al. 2014 | China | Not characterized | Vitamin C |  | 2g every 4 hr IV x 2 days | AHA case report in G6PDd child | 1 |
| Biscaglia, Ferri et al. 2015 | Italy | Mediterranean and Seattle | ASA | Percutaneous Coronary intervention | 100mg daily | No haemolysis in G6PDd adult patients | 5 |
| Owusu, Asante et al. 2015 | Ghana | Presumed A- | Sulfadoxine-Pyrimethamine | Malaria – Intermittent Presumptive Treatment | 1500mg S + 75 mg P | No haemolysis in G6PDd adult patients | 291 |
| Poirot, Vittinghoff et al. 2015 | Tanzania | A- | CD, Mefloquine and SP | Malaria – Intermittent Presumptive Treatment in infants | 250mg S, 12.5mg P, 15mg C + 18.75mg D, 125mg M | Greater Hb drop in G6PDd children in CD group | 28 |
| Reeves, Saum et al. 2016 | USA (Afro-American) | Presumed A- | Rasburicase | Multiple myeloma | 6mg IV | AHA case report in G6PDd adult | 1 |
| Murphy and Grossman 2016 | USA (Egyptian) | Presumed Mediterranean | Dapsone | *Pneumocystis jirovecii* prophylaxis in glioblastoma patient | 100mg daily | AHA case report in G6PDd adult | 1 |
| Rickner, Cao et al. 2017 | USA | Not characterized | Paracetamol + Amoxicillin | Not specified | overdose 150mg/kg P, 15mg/kg A | AHA case report in G6PDd adult | 1 |
| Sharma, Srinivasaraghavan et al. 2017 | India | Not characterized | Norfloxacin and metronidazole | Fever | Not specified | AHA case report in G6PDd child | 1 |
| Kheir, Gaber et al. 2017 | Sudan | Presumed A- | Henna (Lawsone) | Cosmetic | Topical | AHA case report in G6PDd child | 1 |
| Lai, Huang et al. 2017 | China | Not characterized | Sodium dimercaptosulphonate therapy | Wilson's disease | 0.75 to 1g daily x 3-7d | AHA case report in G6PDd adult | 2 |
| Feghaly, Al Hout et al. 2017 | Worldwide | Not characterized | ASA | Percutaneous Coronary intervention | Not specified | No haemolysis in G6PDd adult patients | 4 (excluding cases from Biscaglia, Ferri et al. 2015) |
| Quinn, Gerber et al. 2017 | USA (Afro-American) | Presumed A- | Vitamin C | Rheumatoid arthritis | 75g IV single dose | AHA case report in G6PDd adult | 1 |
| Wu, Fu et al. 2018 | China | Not characterized | Alteplase | Ischaemic stroke | 0.9 mg/kg (max 90 mg) | No haemolysis in G6PDd adult patients | 20 |
| Rees, Strach et al. 2018 | Australia | Not characterized | Vitamin C |  | 30g IV single dose | AHA case report in G6PDd adult | 1 |
| Minshar, Osman-Malik et al. 2019 | Australia (Afro-American) | Presumed A- | Pegloticase | Gout | 8mg IV | AHA case report in G6PDd adult | 1 |
| Chang, Yang et al. 2018 | Taiwan | Presumed Canton or Kaiping | Anidulafungin (+ Clindamycin) | *Pneumocystis jirovecii* prophylaxis in HIV patient | 200mg IV loading then 100 mg IV daily A, 600 mg IV every 8 hr C | No haemolysis in G6PDd adult patient | 1 |
| Chung, Hsu et al. 2019 | Taiwan | Presumed Canton or Kaiping | Doxorubicin, cyclophosphamide, docetaxel, trastuzumab | Breast cancer | Not specified | No haemolysis in G6PDd adult patient | 1 |
| Lu and Chen 2020 | Taiwan | Presumed Canton or Kaiping | TMP-SMX | *Pneumocystis jirovecii* pneumonia | 240mg/1200mg IV every 8 hr x 21d | No haemolysis in G6PDd adult patient | 1 |
| Chen, Li et al. 2020 | China | Not characterized | ASA | Ischaemic stroke | 100mg daily x 3 months | No haemolysis in G6PDd adult patient; higher risk of death in G6PDd | 80 |

a When data available, the most common variant was presumed. For Algeria and other countries with extremely high G6PD molecular heterogeneity, no presumed variant was listed.

b The doses reported in table reflect what was reported in the manuscript and may not be complete.

**Abbreviations**

AHA= Acute Haemolytic Anaemia; ARF= Acute renal failure, ASA= Acetylsalicylic Acid; PMQ=Primaquine; CDA= Chlorproguanil-Dapsone Artesunate; CD= Chlorproguanil-Dapsone; CQ= Chloroquine; SP= Sulphadoxine-Pyrimethamine; d=day; G6PDd= G6PD deficiency; Hb= haemoglobin, HbAS= sickle cell trait; NNJ= neonatal jaundice; TMP-SMX= Trimethoprim/sulfamethoxazole

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