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| **Table 2: Included epidemiological publication of autism and metals in urine** | | | | |
| **Author (year)** | **Population** | **ASD measurement** | **Metals** | **Results** |
| Adams et al. (2017) | Cases: 67  Controls: 50    In Arizona, USA  Age 2.5-60 years | ADOS and/or CARS-2 | Pb | Mean (IQR) Pb: 0.35 (0.22-0.47) µg/g creatinine in controls; 0.59 (0.26-0.76) µg/g creatinine in cases; p=0.0001 |
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| Adams et al. (2013) | Cases: 55  Controls: 44  In Arizona, USA  Age 5-16 years | Previous diagnosis | Al  Sb  As  Cd  Pb  Ni | Mean (SD) Al: 15.3 (13) µg/g creatinine in controls; 19.4 (18) µg/g creatinine in cases; p=NS  Mean (SD) Sb: 0.165 (0.25) µg/g creatinine in controls; 0.167 (0.20) µg/g creatinine in cases; p=NS  Mean (SD) As: 17.9 (23.6) µg/g creatinine in controls; 30.8 (94) µg/g creatinine in cases; p=NS  Mean (SD) Cd: 0.231 (0.20) µg/g creatinine in controls; 0.282 (0.19) µg/g creatinine in cases; p=NS  Mean (SD): 0.32 (0.45) µg/g creatinine in controls; 0.57 (0.86) µg/g creatinine in cases; p=0.02  Mean (SD): 5.61 (4.6) µg/g creatinine in controls; 6.77 (4.4) µg/g creatinine in cases; p=0.08 |
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| Albizzati et al. (2012) | Cases: 17  Controls: 20  In Italy  Age 6-16 years | DSM-IV and ADOS | Al  Cd  Pb | Mean (SD) Al: 6.43 (1.35) ppb/mL in controls; 7.02 (1.46) ppb/mL cases; p=0.143  Mean (SD) Cd: 0.07 (0.02) ppb/mL in controls; 0.08 (0.02) ppb/mL cases; p=0.430  Mean (SD) Pb: 0.73 (0.29) ppb/mL in controls; 0.71 (0.29) ppb/mL cases; p=0.446 |
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| Blaurock-Busch et al. (2011) | Cases: 25  Controls: 25  In Saudi Arabia  Age 3-9 years | DSM-IV | Al  As  Be  Cd  Cr  Mn  Ni | Mean (SD) Al: 12.06 (10.25) µg/g in controls; 13.63 (12.34) µg/g creatinine in cases; p=0.75  Mean (SD) As: 32.06 (45.26) µg/g in controls; 37.58 (30.12) µg/g creatinine in cases; p=0.61  Mean (SD) Be: 0.28 (0.35) µg/g in controls; 0.67 (1.44) µg/g creatinine in cases; p=0.2  Mean (SD) Cd: 0.53 (0.38) µg/g in controls; 0.41 (0.26) µg/g creatinine in cases; p=0.21  Mean (SD) Cr: 1.78 (2.73) µg/g in controls; 2.13 (2.02) µg/g creatinine in cases; p=0.6  Mean (SD) Mn: 4.81 (3.67) µg/g in controls; 7.32 (7.22) µg/g creatinine in cases; p=0.13  Mean (SD) Ni: 12.06 (10.25) µg/g in controls; 13.63 (12.34) µg/g creatinine in cases; p=0.75 |
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| Yorbik et al. (2010) | Cases: 30  Controls: 20  In Turkey  Age 3-12 years | DSM-IV and ABC | Cd  Cr  Pb | Mean (SD) cd: 1.43 (1.16) µg/g creatinine in controls; 0.45 (0.32) µg/g creatinine in cases; p<0.001  Mean (SD): 11.27 (5.04) µg/g creatinine in controls; 26.4 (16.07) µg/g creatinine in cases; p<0.001  Mean (SD): 4.63 (3.83) µg/g creatinine in controls; 1.19 (1.98) µg/g creatinine in cases; p<0.001 |
| Al = Aluminum; Sb = Antimony; Be = Beryllium; Cd = Cadmium; Cr = Chromium; Pb = Lead; Mn = Manganese; Ni = Nickle;  IQR = Interquartile range; SD = Standard deviation | | | | |

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| **Table 2** (Continued) | | | | |
| **Author (year)** | **Population** | **ASD measurement** | **Metals** | **Results** |
| Bradstreet et al. (2003) | Cases: 55  Controls: 8  In Florida and Arizona, USA  Age 3-16 years | DSM-IV | Cd  Pb | Mean (SD) Cd: 0.36 (0.22) µg/g creatinine in controls; 0.48 (0.42) µg/g creatinine in cases; p=0.35  Mean (SD): 11.8 (8.6) µg/g creatinine in controls; 18.2 (43.3) µg/g creatinine in cases; p=0.34 |
| Al = Aluminum; Sb = Antimony; Be = Beryllium; Cd = Cadmium; Cr = Chromium; Pb = Lead; Mn = Manganese; Ni = Nickle;  IQR = Interquartile range; SD = Standard deviation | | | | |