Table 1

Association between detoxication genes’ polymorphisms and preeclampsia

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| --- | --- | --- | --- | --- | --- |
| Gene | Genotype/ Allele | Control group  n=149 | Women with early-onset preeclampsia  n=43 | Women with late-onset preeclampsia  n=49 | χ2test,p |
| **GSTP1 rs8191450** | **AA** | 72 (48,3%) | 17 (39,5%) | 20 (40,8%) | 0,4571 |
| **AG** | 65 (43,6%) | 19 (44,2%) | 22 (44,9%) |
| **GG** | 12 (8,1%) | 7 (16,3%) | 7 (14,3%) |
| **A** | 70,10% | 61,60% | 63,30% | 0,216 |
| **G** | 29,90% | 38,40% | 36,70% |
| **GSTP1 rs1138272** | **СС** | 115 (77,2%) | 32 (74,4%) | 34 (69,4%) | 0,2032 |
| **CT** | 34 (22,8%) | 10 (23,3%) | 13 (26,5%) |
| **TT** | 0 (0,0%) | 1 (2,3%) | 2 (4,1%) |
| **C** | 88,60% | 86,00% | 82,70% | 0,3073 |
| **T** | 11,40% | 14,00% | 17,30% |
| **GPX1 rs1050450** | **СС** | 63 (42,3%) | 24 (55,8%) | 26 (53,1%) | 0,4426 |
| **CT** | 73 (49,0%) | 17 (39,5%) | 19 (38,8%) |
| **TT** | 13 (8,7%) | 2 (4,7%) | 4 (8,2%) |
| **C** | 66,80% | 75,60% | 72,40% | 0,2295 |
| **T** | 33,20% | 24,40% | 27,60% |
| **EPHX1 rs1051740** | **TT** | 73 (49,0%) | 23 (53,5%) | 19 (38,8%) | **0,091** |
| **TC** | 67 (45,0%) | 17 (39,5%) | 21 (42,9%) |
| **CC** | 9 (6,0%) | 3 (7,0%) | 9 (18,4%) |
| **T** | 71,50% | 73,30% | 60,20% | **0,0774** |
| **C** | 28,50% | 26,70% | 39,80% |
| **EPHX1 rs2234922** | **AA** | 91 (61,1%) | 30 (69,8%) | 24 (49,0%) | 0,3077 |
| **AG** | 53 (35,6%) | 11 (25,6%) | 22 (44,9%) |
| **GG** | 5 (3,4%) | 2 (4,7%) | 3 (6,1%) |
| **A** | 78,90% | 82,60% | 71,40% | 0,1623 |
| **G** | 21,10% | 17,40% | 28,60% |
| **SOD2 rs4880** | **TT** | 37 (24,8%) | 16 (37,2%) | 11 (22,4%) | 0,2113 |
| **TC** | 76 (51,0%) | 14 (32,6%) | 27 (55,1%) |
| **CC** | 36(24,2%) | 13(30,2%) | 11(22,4%) |
| **T** | 50,30% | 53,50% | 50,00% | 0,861 |
| **C** | 49,70% | 46,50% | 50,00% |
| **CYP1A1 rs1799814** | **CC** | 141 (94,6%) | 42 (97,7%) | 45 (91,8%) | 0,4689 |
| **CA** | 8 (5,4%) | 1 (2,3%) | 4 (8,2%) |
| **AA** | 0 (0,0%) | 0 (0,0%) | 0 (0,0%) |
| **C** | 97,30% | 98,80% | 95,90% | 0,4753 |
| **A** | 2,70% | 1,20% | 4,10% |
| **CYP1A1 rs1048943** | **AA** | 141 (94,6%) | 40 (93,0%) | 45 (91,8%) | 0,6914 |
| **AG** | 8 (5,4%) | 3 (7,0%) | 4 (8,2%) |
| **GG** | 0 (0,0%) | 0 (0,0%) | 0 (0,0%) |
| **A** | 97,30% | 96,50% | 95,90% | 0,7685 |
| **G** | 2,70% | 3,50% | 4,10% |
| **CYP1A1 rs4646903** | **TT** | 125 (83,9%) | 27 (62,8%) | 39 (79,6%) | **0,0434** |
| **TC** | 23 (15,4%) | 15 (34,9%) | 10 (20,4%) |
| **CC** | 1 (0,7%) | 1 (2,3%) | 0 (0,0%) |
| **T** | 91,60% | 80,20% | 89,80% | **0,011** |
| **C** | 8,40% | 19,80% | 10,20% |
| **SULT1A1 rs9282861** | **GG** | 67 (45,0%) | 18 (41,9%) | 15 (30,6%) | 0,5002 |
| **GA** | 67 (45,0%) | 21 (48,8%) | 27 (55,1%) |
| **AA** | 15(10,1%) | 4 (9,3%) | 7 (14,3%) |
| **G** | 67,40% | 66,30% | 58,20% | 0,2407 |
| **A** | 32,60% | 33,70% | 41,80% |
| **NAT2 rs1801280** | **TT** | 41 (27,5%) | 16 (37,2%) | 12 (24,5%) | 0,6007 |
| **TC** | 81 (54,4%) | 18 (41,9%) | 27 (55,1%) |
| **CC** | 27 (18,1%) | 9 (20,9%) | 10 (20,4%) |
| **T** | 54,70% | 58,10% | 52,00% | 0,7084 |
| **C** | 45,30% | 41,90% | 48,00% |
| **NAT2 rs1799930** | **GG** | 82 (55,0%) | 22 (51,2%) | 29 (59,2%) | 0,1606 |
| **GA** | 56 (37,6%) | 14 (32,6%) | 19 (38,8%) |
| **AA** | 11 (7,4%) | 7 (16,3%) | 1 (2,0%) |
| **G** | 73,80% | 67,40% | 78,60% | 0,2304 |
| **A** | 26,20% | 32,60% | 21,40% |
| **NAT2 rs1799931** | **GG** | 142 (95,3%) | 41 (95,3%) | 45 (91,8%) | 0,7457 |
| **GA** | 6 (4,0%) | 2 (4,7%) | 4 (8,2%) |
| **AA** | 1 (0,7%) | 0 (0,0%) | 0 (0,0%) |
| **G** | 97,30% | 97,70% | 95,90% | 0,728 |
| **A** | 2,70% | 2,30% | 4,10% |
| **NAT2 rs1801279** | **GG** | 149 100,0%) | 43 (100,0%) | 49 (100,0%) | 1 |
| **G-** | 0 (0,0%) | 0 (0,0%) | 0 (0,0%) |
| **--** | 0 (0,0%) | 0 (0,0%) | 0 (0,0%) |
| **G** | 100,00% | 100,00% | 100,00% | 1 |
| **-** | 0,00% | 0,00% | 0,00% |