**Supplement 4:** Side effects analysis

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| **Side Effect** | **Statistical Significance** |
| 1.1 Increased appetite |  |
|  Aripiprazole | P = 0.29 |
|  Aripiprazole ≤15mg/day | P = 0.29 |
|  ≥ 6 months studies | P = 0.29 |
| 1.2 Vomiting |  |
|  Aripiprazole | P = 0.75 |
|  Aripiprazole ≤15mg/day | P = 0.75 |
|  ≥ 6 months studies | P = 0.75 |
| 1.3 Nausea |  |
|  Aripiprazole | P = 0.11 |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = 0.11 |
| 1.4 Constipation |  |
|  Aripiprazole | P = 0.27 |
|  Aripiprazole ≤15mg/day | P = 0.27 |
|  ≥ 6 months studies | P = N/A |
| 1.5 Abdominal pain/discomfort |  |
|  Aripiprazole | P = 0.02 |
|  Aripiprazole ≤15mg/day | P = 0.02 |
|  ≥ 6 months studies | P = 0.02 |
| 1.6 Diarrhoea |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.7 Decreased appetite |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.8 Sedation |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.9 Somnolence |  |
|  Aripiprazole | P = 0.99 |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = 0.99 |
| 1.10 Headache |  |
|  Aripiprazole | P = 0.68 |
|  Aripiprazole ≤15mg/day | P = 0.38 |
|  ≥ 6 months studies | P = 0.68 |
| 1.11 Fatigue |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.12 Dystonia/Oculogyric crisis |  |
|  Aripiprazole | P = 0.27 |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = 0.27 |
| 1.13 Akathisia |  |
|  Aripiprazole | P = 0.94 |
|  Aripiprazole ≤15mg/day | P = 0.94 |
|  ≥ 6 months studies | P = 0.37 |
| 1.14 Tremor |  |
|  Aripiprazole | P = 0.37 |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = 0.30 |
| 1.15 Parkinsonism event |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.16 Movement disorder/Dyskinetic ever |  |
|  Aripiprazole | P = 1.00 |
|  Aripiprazole ≤15mg/day | P = 0.27 |
|  ≥ 6 months studies | P = 0.27 |
| 1.17 Extrapyramidal disorder |  |
|  Aripiprazole | P = 0.46 |
|  Aripiprazole ≤15mg/day | P = 0.46 |
|  ≥ 6 months studies | P = N/A |
| 1.18 Muscle rigidity |  |
|  Aripiprazole | P = 0.99 |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = 0.99 |
| 1.19 Hypokinesia |  |
|  Aripiprazole | P = 0.27 |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = 0.27 |
| 1.20 Psychomotor hyperactivity |  |
|  Aripiprazole | P = 0.81 |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = 0.81 |
| 1.21 Vision Blurred |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.22 Dizziness |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.23 Extrapyramidal event - (Dystonia/Akathesia/Tremor/Parkinsonism/Movement disorder/Dyskinesia/Extrapyramidal disorder/muscle rigidity/Hypokinesia) |  |
|  Aripiprazole | P = 0.93 |
|  Aripiprazole ≤15mg/day | P = 0.21 |
|  ≥ 6 months studies | P = 0.05\*favour aripiprazole (more cases in control group) |
| 1.24 Any Cardiac Events (abnormal ECG/Tachycardia/Ectopic atrial rhythm) |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.25 Musculoskeletal pain |  |
|  Aripiprazole | P = 0.05 |
|  Aripiprazole ≤15mg/day | P = 0.05 |
|  ≥ 6 months studies | P = 0.05 |
| 1.26 Muscle contractions |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.27 Arthralgia |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.28 Muscle strain |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.29 Any musculoskeletal event (musculoskeletal pain, arthralgia, muscle contractions/strain, back pain) |  |
|  Aripiprazole | P = 0.05 |
|  Aripiprazole ≤15mg/day | P = 0.05 |
|  ≥ 6 months studies | P = 0.05 |
| 1.30 Back pain |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.31 Upper respiratory tract infection |  |
|  Aripiprazole | P = 0.02 |
|  Aripiprazole ≤15mg/day | P = 0.02 |
|  ≥ 6 months studies | P = 0.06 |
| 1.32 Respiratory tract infection |  |
|  Aripiprazole | P = 0.01 |
|  Aripiprazole ≤15mg/day | P = 0.02 |
|  ≥ 6 months studies | P = 0.03 |
| 1.33 Cough |  |
|  Aripiprazole | P = 0.13 |
|  Aripiprazole ≤15mg/day | P = 0.13 |
|  ≥ 6 months studies | P = 0.13 |
| 1.34 Nasal congestion |  |
|  Aripiprazole | P = 1.00 |
|  Aripiprazole ≤15mg/day | P = 1.00 |
|  ≥ 6 months studies | P = 1.00 |
| 1.35 Rhinitis |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.36 pharyngitis/nasopharyngitis |  |
|  Aripiprazole | P = 0.24 |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = 0.24 |
| 1.37 Pharyngolaryngeal pain |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.38 respiratory tract infection or inflammation (respiratory tract infection/Rhinitis/pharyngitis/nasopharyngitis) |  |
|  Aripiprazole | P = 0.005 |
|  Aripiprazole ≤15mg/day | P = 0.02 |
|  ≥ 6 months studies | P = 0.01 |
| 1.39 Epistaxis |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.40 Dry mouth |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.41 Salivary hypersecretion |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.42 Pyrexia |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.43 Enuresis |  |
|  Aripiprazole | P = 0.40 |
|  Aripiprazole ≤15mg/day | P = 0.40 |
|  ≥ 6 months studies | P = 0.40 |
| 1.44 Dysmenorrhoea |  |
|  Aripiprazole | P = N/A |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = N/A |
| 1.45 Sleep difficulties |  |
|  Aripiprazole | P = 0.24 |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = 0.24 |
| 1.46 Paranoid reaction/Psychotic disorder |  |
|  Aripiprazole | P = 0.81 |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = 0.81 |
| 1.47 Suicide-related treatment emergent adverse events |  |
|  Aripiprazole | P = 0.27 |
|  Aripiprazole ≤15mg/day | P = N/A |
|  ≥ 6 months studies | P = 0.27 |
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