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| --- | --- | --- | --- | --- | --- | --- |
| **TABLE** **S1** Summary of music therapy for autism spectrum disorder in children | | | | | | |
| Study | Sample Size | Age | Intervention | | Intervention time | Outcome |
|  |  |  | Observation group | Control group |  |  |
| LaGasse 2014(1) | Total=17  Boys=13  Girls=4 | 6-9 years | n=9  MT | n=8  social skills | 5 weeks | Global improvement  Social interaction  Non-verbal communication  Total autism symptom severity |
| Ghasemtabar 2015(2) | Total=27  Boys=14  Girls=13 | 7-12 years | n=13  MT Orff-Schulwerk | n=14  standard care | 45 days | Social interaction |
| Huang 2015(3) | Total=60  Boys=47  Girls=13 | 2-9 years | n=30  integrated therapy plus MT | n=30  integrated therapy | 2 months | Total autism symptom severity |
| Porter 2017(4) | Total=47  Boys=34  Girls=13 | 8-16 years | n=24  MT | n=23  TAU | 12 weeks | Global improvement  Social interaction  Adverse events  Adaptive behaviour  Quality of family relationships  Identity formation  Depression |
| Bieleninik 2017(5) | Total=364  Boys=302  Girls=62 | 4-6.11 years | n=182  individual improvisational music therapy | n=182  standard care | 5 months | Global improvement  Social interaction  Quality of life  Total autism symptom severity  Adverse events  Adaptive behaviour |
| Sharda 2018(6) | Total=51  Boys=43  Girls=8 | 6-12 years | n=26  MT | n=25  play-based intervention | 8-12 weeks | Social interaction  Non-verbal communication  Verbal communication  Quality of life  Adaptive behaviour |
| Bharathi 2019(7) | Total=52  Boys=26  Girls=26 | 6-12 years | n=26  MT | n=26  music listening | 3 months | Global improvement  Social interaction  Total autism symptom severity |
| Rabeyron 2020(8) | Total=37  Boys=32  Girls=5 | 4-7 years | n=19  MT | n=18  music listening | 8 months | Global improvement  Social interaction  Non-verbal communication  Verbal communication  Total autism symptom severity  Adaptive behaviour |

MT: music therapy; TAU: treatment-as-usual

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