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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=17Boys=13 Girls=4  | 6-9 years | n=9MT | n=8social skills | 5 weeks | Global improvementSocial interactionNon-verbal communicationTotal autism symptom severity |
| Ghasemtabar 2015(2) | Total=27Boys=14 Girls=13  | 7-12 years | n=13MT Orff-Schulwerk | n=14standard care | 45 days | Social interaction |
| Huang 2015(3) | Total=60Boys=47Girls=13 | 2-9 years | n=30integrated therapy plus MT | n=30integrated therapy | 2 months | Total autism symptom severity |
| Porter 2017(4) | Total=47Boys=34Girls=13 | 8-16 years | n=24MT | n=23TAU | 12 weeks | Global improvementSocial interactionAdverse eventsAdaptive behaviourQuality of family relationshipsIdentity formationDepression |
| Bieleninik 2017(5) | Total=364Boys=302Girls=62 | 4-6.11 years | n=182individual improvisational music therapy | n=182standard care | 5 months | Global improvementSocial interactionQuality of lifeTotal autism symptom severityAdverse eventsAdaptive behaviour |
| Sharda 2018(6) | Total=51Boys=43Girls=8 | 6-12 years | n=26MT | n=25play-based intervention | 8-12 weeks | Social interactionNon-verbal communicationVerbal communicationQuality of lifeAdaptive behaviour |
| Bharathi 2019(7) | Total=52Boys=26Girls=26 | 6-12 years | n=26MT | n=26music listening | 3 months | Global improvementSocial interactionTotal autism symptom severity |
| Rabeyron 2020(8) | Total=37Boys=32Girls=5 | 4-7 years | n=19MT | n=18music listening | 8 months | Global improvementSocial interactionNon-verbal communicationVerbal communicationTotal autism symptom severityAdaptive behaviour |

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

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