

Appendix 1: Literature review process: keywords, limits, and inclusion and exclusion criteria.

Pain:

("Intellectual Disability"[MeSH] OR "Autism Spectrum Disorder"[MeSH] OR "Cerebral Palsy"[MeSH])
AND ("Pain Measurement"[MeSH] OR "Pain"[MeSH])
("Intellectual Disability"[MeSH] OR "Autism Spectrum Disorder"[MeSH] OR "Cerebral Palsy"[MeSH])
AND (("Analgesics"[MeSH]) OR ("Pain"[MeSH] AND "Drug Therapy"[MeSH]))

Sleep disorders:

("Intellectual Disability"[MeSH] OR "Autism Spectrum Disorder"[MeSH] OR "Cerebral Palsy"[MeSH])
AND ("sleep" OR "sleeping")

Gastro-intestinal disorders:

("Intellectual Disability"[MeSH] OR "Autism Spectrum Disorder"[MeSH] OR "Cerebral Palsy"[MeSH])
AND ("Gastrointestinal Diseases"[MeSH] OR "Signs and Symptoms, Digestive"[Mesh] OR "Helicobacter pylori"[MeSH] OR "Gastroesophageal Reflux"[MeSH] OR "Microbiota"[MeSH])

Challenging behaviours:

("Intellectual Disability"[MeSH] OR "Cerebral Palsy"[MeSH] OR "Autism Spectrum Disorder"[MeSH])
AND ("Stereotyped Behavior"[Mesh] OR "Compulsive Behavior"[Mesh] OR "Problem Behavior"[Mesh]
OR "challenging behaviour" OR "challenging behavior" OR "Self-Injurious Behavior"[Mesh] OR
"Aggression"[Mesh])
("Intellectual Disability"[MeSH] OR "Cerebral Palsy"[MeSH] OR "Autism Spectrum Disorder"[MeSH])
AND ("Drug Therapy"[Mesh] OR "intervention" OR "interventions" OR "management")

Deprescription:

("Intellectual Disability"[MeSH] OR "Autism Spectrum Disorder"[MeSH] OR "Cerebral Palsy"[MeSH])
AND ("Polypharmacy"[MeSH] OR "Deprescriptions"[MeSH] OR "Drug-Related Side Effects and Adverse Reactions"[Mesh] OR "Drug Interactions"[Mesh])
Articles on deprescription in the general or geriatric populations were also retrieved.

The limits used were: "review", "abstract", "10 years" and "humans".

The table below summarizes the inclusion and exclusion criteria applied.

	Inclusion criteria	Exclusion criteria
Type of article	Guidelines, reviews or cohort studies. If not available, clinical trials.	Case reports
Subjects	Individuals with ID	Children only

Topic of the article	<ul style="list-style-type: none">• Prevalence of the health issue (pain, gastro-intestinal problems, sleep disorders, challenging behaviours or polypharmacy)• Origin of the health issue• Assessment of the health issue• Pharmacological treatments for the health issue	Non-pharmacological interventions only
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For each domain, when information on evidence-based treatments for adults with ID could not be found in the literature, we completed the review by searching for evidence-based treatments in the general population.