

Dravet Syndrome Treatment is challenging, not least because the [seizures](#) are highly drug resistant, requiring multiple anti-seizure [medications](#) (ASMs), while some ASMs can exacerbate [seizures](#). Initial treatments include the broad-spectrum ASMs [valproate](#) (VPA), and [clobazam](#) (CLB) in some regions; however, they are generally insufficient to control seizures. With this in mind, three adjunct ASMs have been approved specifically for the treatment of seizures in patients with Dravet syndrome: [stiripentol](#) (STP) in 2007 in the European Union and 2018 in the USA, [cannabidiol](#) (CBD) in 2018/2019 (in combination with CLB in the European Union) and [fenfluramine](#) (FFA) in 2020. These “add-on” therapies (mostly to VPA/CLB) are used as escalation therapies, with the choice dependent on availability in different countries, patient characteristics and caregiver preferences. [Topiramate](#) is also frequently used, with evidence of efficacy in Dravet syndrome, and there is anecdotal evidence of efficacy with [bromide](#), which is frequently used in [Germany](#) and Japan. With a growing treatment landscape for Dravet syndrome, there can be practical challenges for clinicians, particularly with issues associated with polypharmacy. This practical guide provides an overview of these main ASMs including their indications/contraindications, [mechanism of action](#), efficacy, safety and tolerability profile, dosage requirements, and laboratory and clinical parameters to be evaluated. Standard laboratory and clinical parameters include blood counts, liver function tests, serum concentrations of ASMs, monitoring the growth of children, as well as weight loss and acceleration of behavioural problems. Regular cardiac monitoring is also important with FFA as it has previously been associated with cases of cardiac valve disease when used in adults at high doses (up to 120 mg/day) in combination with phentermine as a therapy for obesity. Importantly, no signs of heart valve disease have been documented to date at the low doses used in patients with developmental and epileptic encephalopathies. In addition, potential drug-drug interactions and their consequences are a key consideration in everyday practice. Interactions that potentially require dosage adjustments to alleviate adverse events include the following: STP + CLB resulting in increased plasma concentrations of CLB and its active metabolite norclobazam may increase somnolence, and an interaction with STP and VPA may increase gastrointestinal adverse events. Cannabidiol has a bi-directional interaction with CLB producing an increase in plasma concentrations of 7-OH-CBD and norclobazam resulting in the potential for increased somnolence and sedation. In addition, CBD is associated with elevations of liver transaminases particularly in patients taking concomitant VPA. The interaction between FFA and STP requires a dose reduction of FFA. Furthermore, concomitant administration of [valproate](#) with [topiramate](#) has been associated with [encephalopathy](#) and/or hyperammonaemia. Finally, Strzelczyk et al. briefly described other ASMs used in Dravet syndrome, and current key clinical trials ¹⁾.

Long-term anti-seizure drug therapy with [zonisamide](#), [sultiam](#), [lacosamide](#), [clobazam](#), and [rufinamide](#) from prepubertal to adulthood causes [apoptosis](#) and disruption of folliculogenesis in the ovarian follicles of nonepileptic rats ²⁾

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Strzelczyk A, Schubert-Bast S. A Practical Guide to the Treatment of Dravet Syndrome with Anti-Seizure Medication. CNS Drugs. 2022 Feb 14. doi: 10.1007/s40263-022-00898-1. Epub ahead of print. PMID: 35156171.

²⁾

Kart PÖ, Gürgen SG, Esenülkü G, Dilber B, Yıldız N, Yazar U, Sarsmaz HY, Topsakal AS, Kamaşak T, Arslan EA, Şahin S, Cansu A. An Investigation of the Effects of Chronic Zonisamide, Sultiam, Lacosamide, Clobazam, and Rufinamide Antiseizure Drugs on Folliculogenesis in Ovarian Tissue in Prepubertal Non-Epileptic Rats. Int J Dev Neurosci. 2022 Jun 9. doi: 10.1002/jdn.10200. Epub ahead of print. PMID: 35680420.

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