MANAGEMENT OF PRESCRIPTION CANNABIDIOL ADVERSE EFFECTS AND DRUG-DRUG INTERACTIONS

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BACKGROUND

- Prescription cannabidiol (CBD) is approved for patients ≥ 1 years old with Dravet, Lennox-Gastaut, or Tuberous Sclerosis Syndromes as adjunct therapy with other anti-epileptic drugs.¹
- More data describing longitudinal real-world use and management of prescription CBD is needed to understand post-approval outcomes.
- Specialty pharmacists evaluate the safety and appropriateness of prescription CBD therapy prior to initiation and throughout treatment and intervene to optimize therapy when needed.

OBJECTIVE

To describe the drug-drug interactions (DDIs) and adverse drug events (ADEs) experienced over the first year of prescription CBD use and their management in a real-world setting.

METHODS

DESIGN Single-center, retrospective cohort study

OUTCOMES

- Patients prescribed CBD through the center's neurology clinic INCLUSION from January 2019 through April 2020
- Clinical trial participation or prescription CBD access or EXCLUSION fulfillment process not completed by center's integrated specialty pharmacy
 - Patient characteristics and medication use patterns
 - Adverse effects and DDIs related to prescription CBD
 - Management of adverse effects and DDIs

RESULTS

TABLE 1. PATIENT CHARACTERISTICS AND MEDICATION USE

	Pediatric (N=92) % (n)	Adult (%
Age, years [median, (IQR)]	10 (5 – 14)	28 (21
Gender, female	47 (43)	57 (
Race, white	84 (77)	86 (
Height, cm [median, (IQR)]	130 (102 – 147)	164 (153
Weight, kg [median, (IQR)]	29 (17 – 38)	62 (49
Diagnosis Lennox-Gastaut Syndrome Dravet Syndrome Tuberous Sclerosis Other	89 (82) 4 (4) 1 (1) 5 (5)	80(5(2(14
Route of administration By mouth Other*	78 (72) 22 (20)	93 (7 (

IQR = Interquartile range; *Other: G-tube, J-tube, combination of by mouth and g-tube administration References: 1. Epidiolex (cannabidiol) oral solution [package insert]. Carlsbad, CA: Greenwich Biosciences, Inc.; April 2020. Authors have the following to disclose concerning possible financial or personal relationships with any commercial entities that may have a direct or indirect interest in the subject matter of this presentation: Nisha B. Shah receives research grant support from Pfizer and AstraZeneca.



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