

# **Bibliographie : Cannabinoïdes et Epilepsie**

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## EPIDIOLEX® – Epilepsie de l'enfant

**Essais cliniques** : DEVINSKY et al. (2014), DEVINSKY et al. (2016), DEVINSKY et al. (2017).

GW Pharmaceutical, NCT02091375. (2015)

- Epidiolex® : 98 % CBD oil.

- Dose 25 à 50 mg/kg/jour.

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- USA : Use of Cannabinoids in the treatment of Epilepsy, 2015, *Patent Application Pub* : US 2016/0166515 A1, GW Pharma Limited, Cambridge, (GB) : GUY G., WRIGHT S., MEAD A., DEVINSKY O. (June 2016)

## Autres essais cliniques :

**Essai clinique : TREMBLY B. et SHERMAN M. (1990)**

- « no differences between CBD and Placebo »
- faible dose CBD (100 mg once daily)

❖ TREMBLY et SHERMAN : Double -blind clinical study of cannabidiol as a secondary anticonvulsant, in « *Marijuana'90 International Conference on Cannabis and Cannabinoids* », 8-11 Juillet 1990, Kolymbari, Crète, IACM.

**Essai clinique : Open study, Faculté de Médecine, Università « La Sapienza », 00100 Rome, Italy, (2002) :**

- CBD in a 2,5% corn oily

❖ PELLICCIA A., GRASSI G., ROMANO A., CROCCHIALO P. : Treatment with CBD in oily solution of drug-resistant paediatric epilepsies, *2005 Congress on Cannabis and the Cannabinoids, Leiden, The Netherlands, Meeting Abstract, IACM*, p 14.

**Essai clinique : LORENZ (2004)**

- Dronabinol
- Case series (Neurodegenerative diseases, mitochondriopathy, post-hypoxic state, epilepsy)

❖ LORENZ R. : On the application of cannabis in paediatrics and epileptology, *Neuroendocrinol Lett*, 2004, 25, 1-2, 40-44.

**Essai clinique : HESS et al. (2011)**

- étude de l'efficacité du CBD dans le cadre des épilepsies résistantes dans la Sclérose Tubéreuse Complexe (TSC)

❖ HEDGE M., SANTOS-SANCHEZ C., HESS P. et al. : Seizure exacerbation in two patients with focal epilepsy following marijuana cessation, *Epilepsy & Behavior*, 2012, 25, 4, 563-566.

**Essai clinique : GEDDE et MAA (2013)**

- Realm Oil (extract of 16 :1 CBD cannabis plant)
- 4 à 12 mg/kg /jour

**Essai clinique : PORTER et JACOBSEN (2013) : étude faite par des parents d'enfants présentant des épilepsies résistantes et prenant régulièrement du cannabis**

- CBD-enriched cannabis product
- 19 patients, 16 répondants

❖ PORTER B.E., JACOBSON C. : Report of a parent survey of cannabidiol-enriched cannabis use in pediatric treatment-resistant epilepsy, *Epilepsy & Behavior*, 2013, 29, 3, 574-577.

**Essai clinique : FRIEDMAN et al. (2014)**

- CBD (Epidiolex® 25 mg/kg / jour) + clobazam (17 patients) + group control clobazam (16 patients)
- 7/17 patients on pu obtenir une réduction de leur dose de clobazam
  
- ❖ FRIEDMAN D., CILIO M.R., TILTON N. et al. : The effects of Epidiolex (Cannabidiol) on serum levels of concomitant anti-epileptic drugs in children and young adults with treatment resistant epilepsy in an expand access program, *Annual Meeting of the American Epilepsy Society, Seattle, December 5-9, 2014*, Abstract.

**Essai clinique : SAADE et JOSHI (2015)**

- MMSI
- CBD Case Report
  
- ❖ SAADE D., JOSHI C. : Pure cannabidiol in the treatment of malignant migrating partial seizures in infancy : a case report, *Pediatr Neurol*, 2015, 52, 5, 544-547.

**Essai clinique : HUSSAIN et al. (2015)**

- CBD-enriched OCE
- Parent survey
  
- ❖ HUSSAIN S.A., ZHOU R., JACOBSON C. et al. : Perceived efficacy of cannabidiol-enriched cannabis extracts for treatment of pediatric epilepsy : A potential role for infantile spasms and Lennox-Gastaut syndrome, *Epilepsy & Behaviour*, 2015, 47, 138-141.

**Essai clinique : PRESS et al. (2015)**

- OCE
- Retrospective chart review
  
- ❖ PRESS C.A., KNUPP K.G., CHAPMAN K.E. : Parental reporting of response to oral cannabis extracts for treatment of refractory epilepsy, *Epilepsy & Behavior*, 2015, 45, 49-52.

**Essai clinique : TZADOK et al. (2016)**

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- Retrospective chart review
  
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**Essai clinique : TREAT et al. (2017)**

- OCE
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**Essai clinique : KAPLAN et al. (2017)**

- CBD
- Open-label trial

❖ KAPLAN E.H., OFFERMANN E.A., SIEWERS J.W., COMI A.M. : Cannabidiol treatment for refractory seizures in Sturge-Weber syndrome, *Pediatr Neurol*, 2017, 71, 18-23.

**Essai clinique : GOFSHTEYN et al. (2017)**

- CBD
- Open-label trial

❖ GOFSHTEYN J.S., WILFONG A., DEVINSKY O., BLUVSTEIN J., MARSH E.D. et al. : Cannabidiol as a Potential Treatment for Febrile Infection-Related Epilepsy Syndrome (FIRES) in the Acute and Chronic Phases, *Journal of Child Neurology*, 2016.