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Report Title: Sodium Valproate

Official Information Act Request

Prepared by: New Zealand Pharmacovigilance Centre

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Review of individual cases of exposure to sodium valproate in pregnancy

Overview

Exposure to sodium valproate during pregnancy

Cases reported to CARM - 01 April 1965 to 31 March 2017 identifying sodium valproate treatment during pregnancy

25

Dosage of sodium valproate

These 25 cases describe Intra-uterine absorption and a dose cannot be quantified therefore

Each case has been reviewed to identify the daily dose of sodium valproate administered to the mother and this has been provided on 21 of the 25 cases.

Cases	Number of	mg/day
	1	600
	1	900
	3	1000
	2	1200
	1	1250
	1	1400
	1	1500
(2 cases relate to twins – 1 mother)	8	2000
	1	2300
	1	2400
	1	2500

CAVEAT DOCUMENT

Accompanying statement to data released from the

NEW ZEALAND CENTRE FOR ADVERSE REACTIONS MONITORING

The Centre for Adverse Reactions Monitoring (CARM) has only limited details about each suspected adverse reaction contained in its Database. It is important that the limitations and qualifications which apply to the information and its use are understood.

The data made available represent the collection of spontaneous reports in the CARM database associated with therapeutic products/vaccines granted regulatory approval for use in New Zealand.

Reports have been submitted to the Centre since April 1965 and in many instances describe no more than suspicions which have arisen from observation of an unexpected or unwanted event. This level of reporting is due to CARM encouraging reporters to report events they suspect may be associated with a pharmaceutical product/vaccine irrespective of whether or not they believe it was the cause. CARM accepts all reports and proof of causality is not required when submitting a report to CARM. Coincidental events that may be unrelated to pharmaceutical product/vaccine exposure may be reported. This is particularly possible when the product has widespread use, or is used in targeted strategies such as vaccination campaigns.

In most instances it cannot be proven that a pharmaceutical product or ingredient is the cause of an event in the Database. Reports vary in quality, completeness and detail and may include detail that is incorrect. Consequently, a report in the CARM database of an event does not confirm that the pharmaceutical product/vaccine caused the event.

The volume of reports for a particular product may be influenced by the extent of use of the product, publicity, nature of reactions and other factors which vary over time and from product to product. It is generally accepted internationally that systems such as CARM are subject to under-reporting which may result in scant reports for events perceived by the reporter to be minor or well recognised, whilst more serious or unexpected events are possibly more likely to be reported, even if they are coincidental. Moreover, no information is provided on the number of patients exposed to the product.

The data contained in these tables are further subject to ongoing internal quality controls, review and updating and therefore may be subject to change, particularly if follow-up information is received.

For the above reasons interpretations of adverse reaction data, and particularly those based on comparisons between pharmaceutical products, may be misleading. Any use of this information must take into account at least the above. Although this information is now released, it is strongly recommended that prior to any use of such information, CARM is contacted for interpretation.

Any publication, in whole or in part, of the obtained information must have published with it a statement:

- (i) of the source of the information
- (ii) that the information is not homogenous at least with respect to origin or likelihood that the pharmaceutical product/vaccine caused the adverse reaction,
- (iii) that the information does not represent the opinion of the NZPhvC or CARM.

Director

New Zealand Pharmacovigilance Centre

REPORT	DATE	REACTIONS	DRUGS	ROUTE	DOSE/UNI	BEGAN	I ENDED	AGE	SEX	OUTCOME
007616	JUN1978	MALFORMATIONS MULTIPLE DEATH NEONATAL	* PRIMIDONE * PHENYTOIN * VALPROATE SODIUM	PO PO PO	0.75 GM 0.2 GM			24	F	Mother Recovered
Comment:	Dose not stated Mother discontin	nued sodium valproate at 8 weeks gestation								
014211	NOV1985	MALFORMATIONS MULTIPLE DEATH NEONATAL	* VALPROATE SODIUM	РО	0.6 GM	1979	ONTIN	21	F	Mother Recovered
Comment:	Dose = 600mg o Baby born July	daily. 1984, spina bifida, died at 3 months								
014443	DEC1985	MALFORMATIONS MULTIPLE	* VALPROATE SODIUM	IU				birth	F	Baby progressing
Comment:	Dose (mother) 1	200mg daily								
027168	OCT1994	FOETAL DISORDERS	* VALPROATE SODIUM CARBAMAZEPINE CLOBAZAM	PO PO PO	2 GM 400 MG 10 MG	L TERN	1 CONTIN 1 CONTIN 1 CONTIN	32	F	Baby Not yet recovered
Comment:	Dose 2000mg d	aily								
035805	SEP1997	FOETAL VALPROATE SYNDROME	* VALPROATE SODIUM PHENOBARBITONE	IU IU				birth	M	Not yet recovered
Comment:	Dose (mother) 2	300mg daily commenced 1977 for severe epilepsy.	Also Phenobarbitone 150mg daily.							
036540	JAN1998	AUTISM INFANTILE	* VALPROATE SODIUM FOLIC ACID	IU IU			2 L TERM 2 001192	4	F	Not yet recovered
Comment:	Mother treated v	vith sodium valproate throughout pregnancy with Foli	c acid prophylaxis in first trimester							
039537	OCT1998	HYPOSPADIAS GENITAL MALFORMATION WITHDRAWAL SYNDROME NEONATAL	* VALPROATE SODIUM	IU		00109	7 270798	birth	М	Not yet recovered
Comment:	Dose (Mother) 2	2400mg daily								

REPORT	DATE	REACTIONS	DRUGS	ROUTE DOSE/UNIT	BEGAN ENDED	AGE	SEX	OUTCOME		
044097	APR2000	DEATH FOETAL PLACENTAL DISORDER	* VALPROATE SODIUM * LAMOTRIGINE FOLIC ACID	PO 1.4 GM PO 100 MG PO 5 MG	L TERM CONTIN L TERM CONTIN 150400	24	F	Unknown outcome		
Comment:	Mother treated w	ith sodium valproate (700mg twice daily) and lamotr	igine (50mg twice daily) throughout pregnan	ncy with Folic acid prophylaxis.						
062131	SEP2004	DEVELOPMENTAL DELAY AUTISTIC DISORDER FOETAL VALPROATE SYNDROME OTITIS MEDIA	* VALPROATE SODIUM	IU			М	Not yet recovered		
Comment:	Dose (Mother) m	ore than 1000mg per day, exact dose not indicated.								
073289	SEP2006	FOETAL VALPROATE SYNDROME	* VALPROATE SODIUM	IU	000205 011105	3m	М	Not yet recovered		
Comment:	Dose (Mother) 1200mg per day									
082615	JAN2009	FOETAL VALPROATE SYNDROME	* VALPROATE SODIUM	IU		birth	U	Unknown outcome		
Comment:	Dose (Mother) ur Twins born Dece	nknown mber 2008 both with Foetal Valproate Syndrome								
083603	APR2009	ATRIAL SEPTAL DEFECT VENTRICULAR SEPTAL DEFECT SKELETAL MALFORMATION	* VALPROATE SODIUM * LAMOTRIGINE FOLIC ACID	IU IU IU	000608 060309 000608 030309 000808 060309	birth	F	Not yet recovered		
Comment:	Dose (Mother) 20	000mg per day Valproate, lamotrigine 300mg per da	y - both with increased doses during pregna	ncy. Folic Acid 10mg daily from 8 wee	ks gestation.					
084191	MAY2009	FACE MALFORMATION DEVELOPMENTAL DELAY CONGENITAL MENTAL DEFICIENCY	* VALPROATE SODIUM * LAMOTRIGINE	IU IU	000201 081101 000201 081101	birth	М	Not yet recovered		
Comment:	Dose (Mother) ur	nknown for both Valproate and Lamotrigine								
084192	MAY2009	FOETAL VALPROATE SYNDROME	* VALPROATE SODIUM	IU	300594	birth	М	Not yet recovered		
Comment:	Dose (Mother) 20	000mg daily								

REPORT	DATE	REACTIONS	DRUGS	ROUTE DOSE/UNIT	BEGAN ENDED	AGE	SEX	OUTCOME		
086159	AUG2009	FOETAL VALPROATE SYNDROME	* VALPROATE SODIUM	IU	000301 191001	birth	F	Not yet recovered		
Comment:	Dose (Mother) 20 Baby – Female T	000mg daily – taken as 1000mg twice per day win								
086160	AUG2009	FOETAL VALPROATE SYNDROME	* VALPROATE SODIUM	IU	000301 191001	birth	F	Not yet recovered		
Comment:	Dose (Mother) 2000mg daily – taken as 1000mg twice per day Baby – Female Twin									
087081	NOV2009	FOETAL VALPROATE SYNDROME	* VALPROATE SODIUM	IU	001000 170701	6	F	Not yet recovered		
Comment:	Dose (Mother) 15	500mg daily – taken in three doses of 500mg								
088850	MAR2010	FOETAL VALPROATE SYNDROME	* VALPROATE SODIUM	IU	000906 200607	birth	F	Not yet recovered		
Comment:	Dose (Mother) 20	000mg daily								
093093	NOV2010	FOETAL VALPROATE SYNDROME HYPERTONIA GAIT ABNORMAL	* VALPROATE SODIUM	IU	131201 090802	birth	F	Not yet recovered		
Comment:	Dose (Mother) 10	000mg daily – taken in five divided doses.								
107356	JUN2013	FOETAL VALPROATE SYNDROME	* VALPROATE SODIUM	IU	000809 110410	2	F	Not yet recovered		
Comment:	Dose (Mother) 900mg daily – pre-conception, 900mg daily in 1st trimester, 1200-1400mg daily from 15 weeks gestation due to maternal seizures.									
108377	SEP2013	FOETAL VALPROATE SYNDROME	* VALPROATE SODIUM FOLIC ACID	IU IU	000006 050207 050207	birth	М	Not yet recovered		
Comment:	Dose (Mother) 10	000mg daily –600mg mane 400mg nocte								

REPORT	DATE	REACTIONS	DRUGS	ROUTE DOSE/UNIT	BEGAN ENDED	AGE	SEX	OUTCOME
111180	APR2014	FOETAL VALPROATE SYNDROME	* VALPROATE SODIUM QUETIAPINE	IU IU	010112 050912 240412 050912	birth	M	Not yet recovered
Comment:	Dose (Mother) 200	Omg daily for bipolar disorder. At 18 weeks gestation	n Valproate was reduced and quetiapine introduced	d to compensate.				
111812	MAY2014	DEATH FOETAL (Twins)	* VALPROATE SODIUM * VIGABATRIN * CLOBAZAM * LACOSAMIDE FOLIC ACID	PO 2 GM PO 1 GM PO 80 MG PO 400 MG PO 5 MG	000011	26	F	Recovered without sequelae
Comment:	Dose (Mother) 200	Omg daily – 1000mg twice a day						
113878	OCT2014	DEVELOPMENTAL DELAY AUTISTIC DISORDER ABRUPTIO PLACENTAE FOETAL VALPROATE SYNDROME	* VALPROATE SODIUM FOLIC ACID	IU IU	001296 260897 001296 260897	birth	M	Not yet recovered
Comment:	Dose (Mother) 125	Omg daily – in divided doses.						
114399 Comment:	NOV2014 Dose (Mother) 250	FOETAL VALPROATE SYNDROME	* VALPROATE SODIUM	IU	000705 160406	5	М	Not yet recovered