Overview of reports on adverse drug reactions of melatonin

bijwerkingen centrumlareb

Introduction

Melatonin is a hormone produced by the pineal gland and plays a role in the regulation of the day/ night rhythm and sleep. Melatonin is therefore used to treat disorders or situations in which the sleep rhythm is disturbed (1). A number of melatonin-containing products are formally approved as a medicine: Circadin[®] 2mg since 2007, Melatonine Slenyto[®] (1mg /5mg), Melatonine Thiofarma[®] (3mg/ 5mg) and Melatonine Pharma Nord[®] (3mg) since 2018 and Clinigen[®] (3mg), Davitamon[®], DMB[®] and Nytol[®] (all 1mg/3mg /5mg) since 2019. The indication that is mentioned in the Summary of Product Characteristics (SmPC) varies per manufacturer. Circadin[®] is registered for *the short-term treatment of primary insomnia (any identified cause, including any medical, mental or environmental cause) in patients aged 55 years or over* (1). Melatonin from the manufacturer Slenyto[®] is indicated for *insomnia in the elderly, the treatment of insomnia in children and adolescents with autism spectrum disorder and / or Smith-Magenis syndrome, or for short-term treatment of jet lag in adults* (2). Melatonine Davitamon[®], Clinigen[®], PharmaNord[®], Thiofarma[®], DMB[®] and Nytol[®] *are indicated for short-term treatment of jet-lag in adults* (3-8).

In addition to the registered melatonin products that are supplied by the pharmacy on prescription, unregistered melatonin supplements are available in drugstores, web-shops, pharmacies and also supermarkets.

The Inspectorate for Healthcare and Youth (IGJ) has recently intensified the supervision of products containing melatonin in collaboration with the Dutch Food and Consumer Product Safety Authority (NVWA). The traders and / or producers of melatonin-containing products that are known to IGJ have been informed by letter (9). This letter states that the IGJ and NVWA consider products with dosing advice that leads to an intake of less than 0.3 mg of melatonin per day as a product covered by the Commodities Act. This, of course, on condition that the products are not provided of a medical claim, which falls under the application criterion for medicines. The IGJ takes the position that products with a daily dose of 0.3 mg melatonin pharmacologically performs several physiological functions of the human body. Products with dosing advice that leads to intake of an amount of melatonin of 0.3 mg or more per day should be used up considered as a medicinal product on the basis of the application criterion and as a consequence as covered by the Medicines Act, provided that the provisions are met laid down in the case law of the European Court of Justice (inter alia HechtPharma judgment). This means that the latter products, before they are put on the market must be registered as a medicinal product for the purposes of marketing of the product requires a permit (10).

Reports

From September 1997 until 29 November 2019, the Netherlands Pharmacovigilance Centre Lareb received 181 reports of Adverse Drug Reactions (ADRs) associated with the use of melatonin (Table1 Appendix). Seven reports were reported by the pharmaceutical industry. From the 174 reports reported directly to Lareb 66 (38%) concern men, 107 (61%) concern women and in one report the gender is not reported. 46 % of the reports were sent by consumers, 28% by pharmacists and 25% by medical doctors and 1% by other health care professionals. The age distribution in the reports is shown in Figure 1.

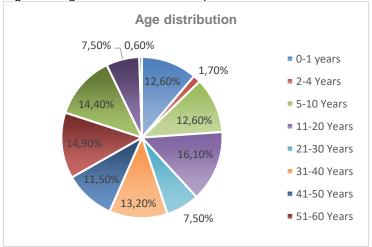
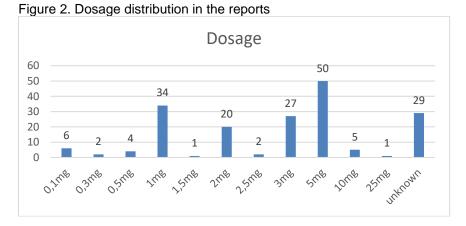


Figure 1. Age distribution in the reports

From the 181 reports 17 reports concern the registered drug Circadin[®] which contains 2mg melatonin per tablet. In addition, in six other reports the name of a melatonin supplement was reported: Schiff Sleep Support melatonine[®] (3mg), Sleepzz Melatonine [®] 1,5mg and Sleepzz Melatonine Time released [®] (0,1mg per tablet, advised 10 tablets per night and maximum 5mg), Melatonine 3mg Pharma Nord [®], Melatonine Kruidvat [®] (5mg), and Arkorelax [®] (1mg). In the other reports, the melatonin product is reported under the generic name.

In 101 reports no co-medication is reported. In nine reports also a medication registered for the treatment of Attention Deficit Hyperactivity Disorder (ADHD) is reported as co-medication; eight times this was methylphenidate and once dexamphetamine. Combination with melatonin in patients with ADHD suffering from insomnia is common and melatonin is usually prescribed by their treating physician. In those cases often the desired dosage of melatonin is compounded by the pharmacist or a registered melatonin preparation is delivered.

All reports of melatonin are included in this overview. From the 181 reported melatonin preparations 50 reports (27.6%) concern a product with 5mg melatonin, 34 reports (18.8%) with 1mg, 27 reports (14.9%) with 3mg and 20 reports (11%) with 2mg and 5 reports (92.8%) 10mg. The highest reported dosage was 25mg, reported once. In 29 reports the dosage is not unknown. The complete dosage distribution is shown in the Figure 2.



In 181 reports 370 ADRs were reported. More than one ADR can be reported in a single report. The most reported ADR was diarrhoea, followed by headache and dizziness, see Table 1. All of the ADRs in the Top-10 are labelled in de SmPC of Circadin[®] (1).

Reported PT	Number
Diarrhoea	17
Headache	15
Dizziness	15
Palpitations	12
Nausea	11
Insomnia	9
Hyperhidrosis	9
Abdominal pain	7
Abnormal dreams	7
Nightmare	6
Constipation	6
Anxiety	6
Feeling abnormal	6
Total	126

Beside the well-known and labelled ADRs, also ADRs were reported which are not common in all SmPCs (1-8). In 3 reports an influence on the female hormonal balance was reported. In one case, reported by the specialist doctor, galactorrhea with hyperprolactinaemia has been reported in a 10-20 years old girl. She was treated for sleep disorder with 5mg melatonin. After 2 years she experienced galactorrhea with hyperprolactinaemia. Her serum prolactin was 900mU/l (ref. <500mU/l). One week after withdrawal the prolactin level decreased to 680mU/l, the galactorrhea was still ongoing at the time of reporting. A 20-30-years old women reported delay of her menstruation after administration of supplement Melatomatine Pure * for difficulty with falling asleep. The dosage of melatonin was tapered down by 0,1mg during 3 days. The menstrual bleeding occurred the first day after withdrawal. In one report a 10-20 years old girl experienced breast tenderness among other complains, such as palpitations, headache, dizziness, agitation, polyuria, mood swings, blurred vision, nightmares and flatulence with a latency of 7 weeks. The dose of melatonin was reduced but at the reporting time the patient was still not recovered.

In 5 reports a possible relationship between the use of melatonin and the occurrence of epileptic seizures or convulsions is reported. In 3 cases the patient had already a history of epilepsy. In one case the patient recovered after withdrawal of melatonin and increasing the dose of antiepileptic drug. For the patients in 2 cases no history of epilepsy or use of antiepileptic drugs has been reported. In one case the patient recovered after withdrawal of melatonin.

Other sources SmPCs

The information about the ADRs in the SMPC's of registered melatonin products varies per manufacturer.

Both, Melatonin Slenyto[®] and Circadin[®], are approved as a medicine via the centralised authorisation procedure. The SmpC of Slenyto[®] mentions as ADRs: mood swings, aggression, irritability, somnolence, headache, sudden onset of sleep, sinusitis, fatigue, hangover and adverse reactions which were reported with an with off-label use: epilepsy, visual impairment, dyspnoea, epistaxis, constipation, decreased appetite, swelling face, skin lesion, feeling abnormal, abnormal behaviour and neutropenia (1, 2).

The SmPC of Circadin[®] mentions: headache, somnolence, irritability, nervousness, restlessness, insomnia, abnormal dreams, anxiety, migraine, lethargy, psychomotor hyperactivity (restlessness with increased activity), dizziness, hypertension, abdominal pain dyspepsia, mouth ulcers, dry mouth, hyperbilirubinaemia, dermatitis, night sweats, pruritus, rash, dry skin, pain in the extremities, symptoms of the menopause,galactorrhea, asthenia, chest pain, glycosuria, proteinuria, abnormal liver function tests and increased weight (1).

The SmPC of Melatonin Cliningen[®] and Pharma Nord[®] are identical. Galactorrhoea is mentioned as an ADR, but symptoms of the menopause and epilepsy not (7, 8).

The SmPCs of Melatonin DMB[®], Davitamon[®], Thiopharma[®] and Nytol [®] are also identical. Some ADRs are not mentioned in those SmPCs. For example galactorrhoe and symptoms of the menopause are not mentioned. On the other hand the epilepsy is mentioned, in contrast with the SmPC of Circadin[®] where epilepsy is not included (3-6).

The information about the possible ADRs in the consumer leaflets of the melatonin supplements is scarce or is often even missing (11, 12).

Literature

An effect of melatonin on the prolactin level has been described: Large melatonin doses (80 mg) can substantially increase prolactin secretion. Doses of 100 mg daily in the evening potentiate the suppression of luteinizing hormone by testosterone in men. Also an effect on other reproductive hormones has been seen. Chronic ingestion of 1 g/day in humans resulted in depression of serum luteinizing hormone (LH). A combination of 75mg melatonin with contraceptive norethindrone 0.5 mg daily for months to years, lead to abnormal bleeding and breast complaints (13).

A case report describes a 56-year-old man with amyotrophic lateral sclerosis (ALS). He had been taking over-the-counter preparations of melatonin for 1.5 years. During the first year he took 1 mg per day and then gradually increased the daily dose to 2 mg. He developed painful, asymmetric gynecomastia. Physical examination confirmed bilateral gynecomastia and homogeneously enlarged breasts that were painful when palpated. There was no galactorrhea. No signs or symptoms of other endocrine dysfunction were noted. Discontinuation of the melatonin without any changes in other drug regimens resulted in complete regression of the gynecomastia within a few weeks(14). Many studies have examined the effect of melatonin on sleep induction and sleep quality in patients with epilepsy. In the literature the supplementation of exogenous melatonin is described as a

promising treatment for epilepsy On the other hand, also a relationship between sleep deprivation and epilepsy has been described. Sleep disturbances ranging from insomnia and hypersomnia are commonly reported by patients with epilepsy. Moreover, whether epilepsy is controlled with medication or not and regardless of the type of epilepsy syndrome, sleep deprivation is frequently reported as a trigger for "breakthrough" seizures (15, 16). There is no clear explanation of the relationship between some types of epilepsy and its presentation during drowsiness, sleep, or awakening. Both sleep and some generalized seizure types share common neuroanatomical elements. The most accepted thesis suggests that the relationship is reciprocal and that overall both conditions (sleep and sleep deprivation) have an excitatory effect on certain types of epilepsy(17).

Discussion and conclusion

We do not know the origin of different melatonin products if they are reported under the generic name. The reports may concern the pharmacy compounded melatonin preparations, melatonin purchased as a freely available supplement in the drugstore or in the web shops or as medicine registered melatonin reported under the generic name. When the used product was specified by name or distribution channel this was registered (Table 1 in Appendix). Unfortunately this was not the case for all reports. Reports received by Lareb show that many melatonin products are used in practice with dosages higher than 0,3mg. A (large) part of these products is likely sold as supplements.

In 181 reports 371 ADRs were reported. Most of the ADRs are mentioned in the various SmPCs for registered products on the market, but not in all of them. The SmPCs do not completely overlap in the information on ADRs they provide. The information about the possible ADRs in the consumer leaflets of the melatonin supplements is scarce. Most of them only have label information where no side effects are mentioned at all (11, 12, 18).

The cases reported to Lareb show no clear relation between the reported ADRs and melatonin dosage. Most ADRs are reported with the use of 5mg melatonin preparations. Although the strength of the melatonin preparation is mentioned in most cases, a dosing schedule is often not reported. Therefore the total daily dosage remains uncertain. For example, the advised dosage of the Melatonin 1mg Kruidvat[®] is 10 tablets at once half an hour before bedtime (11).

The reports show ADRs can occur regardless the status of the melatonin product and the strength of the melatonin preparation.

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This signal has been raised on February 17, 2020. It is possible that in the meantime other information became available.

Appendix: Table1

<u>App</u>	endix. Tabi								
No	ID sex age primary source	Drug	Dosag e	Indicatio n	Concomit ant medicati on	Reported ADRs	Laten cy after start	Action taken	Outcom e
1	NL-LRB- 18762 male,60-70 Years Physician Pharmacist	Melatonine 2.5Mg	1 / 1 Days	Sleep disorder NOS	Alginezuur/Natriu mwaterstofcarbo n Susp Timolol Oogdruppels 1 Budesonide Neusspray	Diarrhoea	3 Weeks	Drug Withdrawn	
2	NL-LRB- 19571 Unknown, 10-20 Years Physician Pharmacist	Melatonine 2,5Mg	1 / 1 Days			Rash maculo papular	3 Month s	Drug Withdrawn	
3	NL-LRB- 22310 male, 70 years and older Physician Pharmacist	Melatonine 5Mg	1 dosag e form / 1 Days	Sleep disorder NOS	Prednison Calciumcarbona at/Lactogluconaa t Alendroninezuur	Polymyalgia rheumatica	3 Month s	Drug Withdrawn	
4	NL-LRB- 22441 female, 50- 60 Years Physician Pharmacist	Melatonine 5Mg	5 dosag e form / 1 Days		Amlodipine Fludrocortison Hydrocortison	Hypoglycaemia	-	Unknown	
5	NL-LRB- 22883 male,70 Years and older Pharmacist	Melatonine 0,2Mg	1 / 1 Days	Sleep disorder NOS	Triamtereen/Hyd rochloorthiazide Valproinezuur Fenprocoumon Alfuzosine - Oxazepam	Prothrombin time prolonged	-	Drug Withdrawn	
6	NL-LRB- 28659 male, 40-50 Years Physician	Melatonine 5Mg	1 dosag e form / 1 Days	Sleep disorder NOS	Propranolol	Headache	-	Drug Withdrawn	
7	NL-LRB- 29987 male, 30-40 Years Pharmacist	Melatonine 0,1Mg	2 / 1 Days	Sleep disorder NOS		Confusion Consciousness decreased	-	Drug Withdrawn	Recover ed Recover ed
8	NL-LRB- 31080 female, 60- 70 Years Physician	Melatonine 1Mg	4 / 1 Days	Sleep disorder NOS	lpratropium	Vaginal discharge	6 Month s	Dose Not Changed	Unknow n
9	NL-LRB- 33979 male, 7-10 Years Pharmacist	Melatonine 1Mg	3 / 1 Days	Disorder sleep	Beclometason	Abdominal pain upper Restlessness marked Irritability	2 Days 7 Days 7 Days	Dose Not Changed	Not Recover ed Not Recover ed Not Recover ed

10	NL-LRB- 34529 male, 10-20 Years Pharmacist	Melatonine 5Mg	5 milligr am / 1 Days			Mouth dry Taste alteration Thirst	3 Days 3 Days 3 Days	Dose Not Changed	Unknow n Unknow n Unknown
11	NL-LRB- 35887 male, 10-20 Years Pharmacist	Melatonine 5Mg	5 milligr am / 1 Days	Attention deficit/hy peractivit y disorder		Urinary incontinence	-	Dose Not Changed	Not Recover ed
12	NL-LRB- 48727 male, 70 Years and older Consumer	Melatonine 5Mg	20 milligr am / 1 Days	Insomnia	Fluvoxamine Oxazepam Desloratadine Losartan Chloorthiazide	Depressed state Drowsiness	2 Days 2 Days	Drug Withdrawn	Recover ed Recover ed
13	NL-LRB- 49403 female, 50- 60 Years Consumer	Melatonine 5Mg	5 milligr am / 1 Days	Sleep difficult		Vertigo Drug withdrawal syndrome	14 Days 14 Days	Drug Withdrawn	Recover ed Recover ed
14	NL-LRB- 50161 male, 10-20 Years Consumer	Melatonine 5Mg	5 milligr am /	Sleep disorder	Methylfenidaat	Aggressive reaction	7 Days	Drug Withdrawn	Recover ed
15	NL-LRB- 50476 female, 7- 10 Years Pharmacist	Melatonine 1Mg	1 milligr am / 1 Days			Rash	1 Weeks	Unknown	Unknow n
16	NL-LRB- 50715 female, 40- 50 Years Physician	Melatonine 1Mg (la) Phenobarb italum Tablet 100Mg - Non- Current Drug (la)	3 dosag e form / 1 Days 300 milligr am / Days			Convulsions	3 Hours 3 Hours	Drug Withdrawn, Dose Not Changed	Recover ed
17	NL-LRB- 52534 male, 10-20 Years Pharmacist	Melatonine 3Mg Tablet	3 milligr am / 1 Days	Sleep disorder		Skin discolouration	3 Month s	Dose Not Changed	Not Recover ed
18	NL-LRB- 54059 male, 50-60 Years Physician	Melatonine 5Mg	5 milligr am / 1 Days	Sleep disorder	Sotalol Acenocoumarol	Diarrhoea	3 Weeks	Drug Withdrawn	Recover ed
19	NL-LRB- 56389 male, 7-10 Years Pharmacist	Ritalin Tablet 10Mg Melatonine 0,1Mg	20 milligr am / 1 Days 1 dosag e form	Attention deficit hyperacti vity disorder Sleep disorder		Tooth disorder	1 Years 8 Month s	Dose Not Changed, Dose Not Changed	Not Recover ed

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			/ 1 Days						
20	NL-LRB- 59844 male, 60-70 Years Pharmacist	Melatonine 5Mg	1 dosag e form / 1 Days	Sleep disorder	Zopiclon Clonazepam Piroxicam- Betadex Hydrokinine Ranitidine	Paraesthesia Hyperhidrosis Stomach upset	3 Hours 3 Hours 3 Hours	Drug Withdrawn	Recover ed Recover ed Recover ed
21	NL-LRB- 61023 female, 60- 70 Years Pharmacist	Melatonine 0,1Mg	milligr am /			Dizziness Fall	2 Weeks 2 Weeks	Drug Withdrawn	Recover ed Recover ed
22	NL-LRB- 61255 male, 50-60 Years Pharmacist	Melatonine 3Mg Tablet	3 milligr am / 1 Days	Insomnia	Gabapentine Diazepam Nitrazepam Tramadol	Depressed reaction Breathlessness Insomnia	1 Days 1 Days 1 Days	Drug Withdrawn	Unknow n Unknow n Unknow n
23	NL-LRB- 63417 male, 50-60 Years Physician	Melatonine 1Mg (Ia) Acenocou marol Teva Tablet 1Mg (Ia)	2 milligr am / 1 Days /	Insomnia		INR decreased Drug interaction inhibition	3 Weeks 3 Weeks - -	Drug Withdrawn Dose Not Changed	Recover ed Unknow n
24	NL-LRB- 63559 male, 50-60 Years Pharmacist	Melatonine 5Mg	10 milligr am / 1 Days		Doxepine Diclofenac/Misop rostol Valsartan Zolpidem Oxazepam Metoprolol	Dizziness	-	Dose Not Changed	Unknow n
25	NL-LRB- 65818 male, 10-20 Years Pharmacist	Melatonine Capsule 2Mg	2 milligr am / 1 Days	Sleep disorder	Methylfenidaat	Drug dependence	30 Days	Dose Not Changed	Not Recover ed
26	NL-LRB- 66230 female, 40- 50 Years Consumer	Melatonine	1 dosag e form / 1 Days	Insomnia		Diarrhoea	2 Weeks	Drug Withdrawn	Recover ed
27	NL-LRB- 70166 male, 10-20 Years Pharmacist	Melatonine 10Mg	10 milligr am / 1 Days	Sleep disorder	Methylfenidaat	Weight increase	-	Drug Withdrawn	Unknow n
28	NL-LRB- 70286 male, 10-20 Years Pharmacist	Melatonine 5Mg	5 milligr am / 1 Days	Sleep disorder	Methylfenidaat	Nocturnal enuresis	3 Years	Not Applicable	Unknow n
29	NL-LRB- 71551 female, 10- 20 Years Physician Physician	Melatonine 0,1Mg	1 dosag e form /			Headache	-	Drug Withdrawn	Recover ed

30	NL-LRB- 73911 female, 50- 60 Years Consumer	Melatonine 1Mg	5 dosag e form / 1	Insomnia		Palpitations	3 Days	Drug Withdrawn	Unknow n
31	NL-LRB- 74019 female, 60- 70 Years Pharmacist	Melatonine 10Mg	10 milligr am /		Calciumcarbona at/Lactogluconaa t Bruistab Levothyroxine	Abdominal cramp Diarrhea	-	Drug Withdrawn	Recover ed Recover ed
32	NL-LRB- 75016 female, 10- 20 Years Consumer	Melatonine 5Mg	1 dosag e form / 1 Days	Sleep disorder		Growth retarded Constipation	10 Years 8 Years	Not Applicable	Not Recover ed Not Recover ed
33	NL-LRB- 77004 female, 4-7 Years Physician	Melatonine 1Mg	1 milligr am / 1 Days	Insomnia		Stools abnormal	1 Days	Dose Not Changed	Not Recover ed
34	NL-LRB- 81606 female, 50- 60 Years Pharmacist	Melatonine 5Mg	5 milligr am / 1 Days	Sleep disorder	Atenolol Sumatriptan Temazepam Estriol Ovule Acetazolamide Betahistine Acetylsalicylzuur/ Metoclopramide	Diarrhoea	3 Month s	Drug Withdrawn	Recover ed
35	NL-LRB- 82408 male, 70 Years and older Consumer	Circadin® Tablet Mva 2Mg	1 dosag e form /	Sleep disorder	Acenocoumarol Amiodaron Bumetanide Fosinopril Metoprolol Spironolacton Lactulose Pantoprazol Simvastatine	Dizziness Fall	4 Days 4 Days	Drug Withdrawn	Unknow n Unknow n
36	NL-LRB- 83070 female, 10- 20 Years Physician	Melatonine 1Mg	1 milligr am /	Sleep disorder	Promethazine	Galactorrhoea not associated with childbirth	5 Days	Drug Withdrawn	Recover ed
37	NL-LRB- 83648 female, 70 Years and older Pharmacist	Schiff Sleep Support® Melatonine 3Mg	6 milligr am /		Ureum Creme Acetylsalicylzuur Chloortalidon Hydroxyzine Simvastatine Calciumcarb/Col ecalc Temazepam Levothyroxine Levothyroxine Alendroninezuur	Therapeutic effect unexpected	14 Days	Unknown	Unknow n
38	NL-LRB- 85427 female, 60- 70 Years Pharmacist	Circadin®T ablet Mva 2Mg	2 milligr am / 1 Days	Insomnia	Oxazepam Citalopram	Upper abdominal pain	30 Minute s	Drug Withdrawn	Recover ed

39	NL-LRB- 86176 female, 50- 60 Years Pharmacist	Circadin ®Tablet Mva 2Mg	2 milligr am / 1 Days	Drug withdraw al syndrom e		Tearing eyes Nausea Headache Malaise	2 Days 1 Days 1 Days 1 Days	Drug Withdrawn	Recoveri ng Recoveri ng Recoveri ng Recover ed with squelae
40	NL-LRB- 87176 female, 50- 60 Years Pharmacist	Melatonine 5Mg	5 milligr am / 1 Days	Drug withdraw al syndrom e	Oxazepam Paroxetine Atorvastatine Metoprolol Acetylsalicylzuur Dispertablet Nitroglycerine Hydrochloorthiazi de Salmeterol/Flutic ason	Hyperhidrosis Nightmares	- 1 Hours	Drug Withdrawn	Recover ed Recover ed
41	NL-LRB- 87811 female, 50- 60 Years Pharmacist	Melatonine 5Mg	5 milligr am / 1 Days		Desloratadine	Anxiety Hyperhidrosis Dreaming abnormal Restlessness	3 Days 3 Days 3 Days 3 Days	Drug Withdrawn	Recover ed Recover ed Recover ed Recover ed
42	NL-LRB- 88221 male, 10-20 Years Physician Physician	Melatonine 5Mg	5 milligr am / 1 Days	Sleep disorder	Dexamfetamine	Syncope Drug interaction	5 Days 5 Days	Dose Not Changed	Recover ed Recover ed
43	NL-LRB- 88491 female, 60- 70 Years Pharmacist	Melatonine 0,1Mg	milligr am / 1 Days	Insomnia		Psoriasis Rash Abscess Pain in face	2 Month s 2 Month s 2 Month s	Drug Withdrawn	Recover ed Recover ed Recover ed Recover ed
44	NL-LRB- 89696 female, 50- 60 Years Consumer	Circadin® Tablet Mva 2Mg	/		Levothyroxine	Arthralgia Myalgia General malaise	14 Days 14 Days 14 Days	Dose Not Changed	Recover ed Recover ed Recover ed
45	NL-LRB- 89729 female, 7- 10 Years Pharmacist	Melatonine 5Mg (la) Depakine Enteric Tablet Msr 300Mg (la)	5 milligr am / 1 Days 600 milligr am / Days	Sleep disorder Epilepsy	Salbutamol Salmeterol/Flutic ason	Insomnia Drug interaction potentiation Convulsions aggravated	- - - -	Dose Reduced, Dose Increased	Unknow n Unknow n Unknow n

46	NL-LRB- 90206 female, 50- 60 Years Physician	Melatonine 1Mg	1 milligr am /	Insomnia		Visual hallucinations	1 Hours	Drug Withdrawn	Recover ed
47	NL-LRB- 90336 male, 60-70 Years Physician	Circadin® Tablet Mva 2Mg	75 milligr am / Days	Anxiety disorder	Metformine	Oesophageal pain Palpitations	1 Hours 1 Hours	Dose Not Changed	Recoveri ng Recoveri ng
48	NL-LRB- 90951 female, 7- 10 Years Physician	Risperdal Tablet Omhuld 0,5Mg Depakine Enteric Tablet Msr 150Mg Melatonine 0,1Mg	1 milligr am / 1 Days 2 dosag e form / 1 Days 1 dosag e form /	Pervasiv e develop mental disorder NOS Epilepsy Sleep disorder		Puberty precocious	2 Month s 3 Years 2 Years	Dose Reduced, Unknown, Not Applicable	Not Recover ed
49	NL-LRB- 91419 female, 4-7 Years Pharmacist	Circadin® Tablet Mva 2Mg	2 milligr am / 1 Days	Sleep disorder		Abdominal pain Diarrhea	1 Days 1 Days	Not Applicable	Not Recover ed Recover ed
50	NL-LRB- 101696 female, 70 Years and older Pharmacist	Melatonine 5Mg	10 milligr am / 1 Days	Sleep disorder	Ursodeoxycholzu ur Omeprazol Plantago Ovata Fluvastatine Diltiazem Carbasalaatcalci um	Dreaming abnormal	-	Dose Reduced	Recover ed
51	NL-LRB- 101996 male, 30-40 Years Physician	Melatonine 5Mg	5 milligr am /	Sleep disorder		Loose stools Defaecation urgency	1 Days 1 Days	Unknown	Unknow n Unknow n
52	NL-LRB- 103123 male, 40-50 Years Pharmacist	Circadin® Tablet Mva 2Mg	4 milligr am / 1 Days	Sleep disorder		Hepatitis Insomnia Abdominal pain Flushing	1 Days 1 Days 1 Days 1 Days	Drug Withdrawn	Recoveri ng Recoveri ng Recoveri ng Recoveri ng
53	NL-LRB- 104684 male, 10-20 Years Pharmacist	Circadin® Tablet Mva 2Mg	2 milligr am / 1 Days	Sleep disorder		Headache Therapeutic response unexpected with drug substitution	1 Days 1 Days	Drug Withdrawn	Recover ed Recover ed
54	NL-LRB- 105538 female, 70 Years and older Pharmacist	Fragmin 5000 Injvlst 25.000le/M I Wwsp 0,2MI Circadin Tablet Mva 2Mg	1 dosag e form / 1 Days /	Hip surgery Sleep disorder	Sotalol Omeprazol Hydrochloorthiazi de	Diarrhoea	14 Days 14 Days	Dose Not Changed, Dose Not Changed	Unknow n

55	NL-LRB- 105541 female, 30- 40 Years Consumer	Melatonine 5Mg	5 milligr am / 1 Days	Sleep difficult	Ethinylestradiol/L evonorgestrel(Tri nor/Trigynon)	Heaviness in limbs Nausea Hyperhidrosis Hyperhidrosis	2 Hours 12 Hours 2 Hours	Drug Withdrawn	Recoveri ng Recoveri ng Recover ed Recover ed
56	NL-LRB- 106914 male, 7-10 Years Consumer	Melatonine 5Mg	3 milligr am /			Drug effect decreased Therapeutic response unexpected with drug substitution	-	Unknown	Unknow n Unknow n
57	NL-LRB- 109545 female, 40- 50 Years Pharmacist	Circadin® Tablet Mva 2Mg	2 milligr am / 1 Days	Sleep disorder		Facial flushing	2 Days	Drug Withdrawn	Recover ed
58	NL-LRB- 110415 female, 7- 10 Years Physician	Melatonine 1Mg	1 milligr am /	Sleep disorder	Clonazepam Felbamaat Lamotrigine Macrogol (Movic/Molax/La xt/Gen) Bisacodyl	Constipation	-	Drug Withdrawn	Not Recover ed
59	NL-LRB- 110531 male, 10-20 Years Pharmacist	Melatonine 1Mg	1 dosag e form /		Fluticason	Sleep disturbance Abnormal dreams	3 Days 3 Days	Drug Withdrawn	Unknow n Unknow n
60	NL-LRB- 118084 female, 60- 70 Years Pharmacist	Melatonine	1 dosag e form / 1 Days	Sleep problem	Enalapril Solifenacine Domperidon Pantoprazol	Urine odour abnormal	2 Month s	Dose Not Changed	Not Recover ed
61	NL-LRB- 120003 male, 30-40 Years Physician	Melatonine Capsule 5Mg Nvza	5 milligr am /	Sleep disturban ce		Hidradenitis suppurativa	-	Unknown	Recover ed
62	NL-LRB- 122283 female, 60- 70 Years Physician	Melatonine 5Mg	5 milligr am / 1 Days	Sleep disorder		Diarrhoea Abdominal cramps	14 Days 14 Days	Drug Withdrawn	Recover ed Recover ed
63	NL-LRB- 125357 female, 60- 70 Years Consumer	Sintrom Mitis Tablet 1Mg - Non- Current Drug Melatonine 0.2Mg Acai 1500Mg	/ milligr am / 3000 milligr am / 1 Days 1	Thrombo sis Sleep disorder		Dizziness Balance impaired NOS Mental dullness Somnolence Therapeutic response unexpected with drug substitution	4 Days 4 Days 4 Days 4 Days 4 Days 4 Days	Dose Not Changed, Dose Not Changed, Dose Not Changed, Dose Not Changed, Dose Not Changed	Unknow n Unknow n Unknow n Recoveri ng

64	NL-LRB- 127413 male, 10-20 Years Physician	Vitamine B Complex Dragee Bruin Kw - Non- Current Drug Nitrazepa m Tablet <u>5Mg</u> Melatonine 0,3Mg	e form / 1 Days 5 milligr am / 1 Days milligr am / 1 Days	Sleep disorder		Hyperactivity Difficulty sleeping	14 Days 14 Days	Drug Withdrawn	Recover ed Recover ed
65	NL-LRB- 129906 female, 40- 50 Years Physician	Dogmatil Capsule 50Mg Spiriva Respimat Inhopl 2,5Mcg/Do Patr 60Do+Inh Melatonine 5Mg	300 milligr am / 1 Days 1 dosag e form / 1 Days 5 milligr am / 1 Days	Vertigo	Pramipexol Triamtereen/Epiti zide Domperidon Esomeprazol Levocetirizine Naproxen Fluticason Duloxetine Paracetamol/Cod eine	Galactorrhoea	11 Years 11 Years 11 Years	Not Applicable, Unknown, Unknown	Not Recover ed
66	NL-LRB- 130715 female, 50- 60 Years Consumer	Melatonine	/	Sleep disorder	Oxazepam Budesonide/For moterol	Muscle cramp Bone pain	4 Days 4 Days	Drug Withdrawn	Recoveri ng Recoveri ng
67	NL-LRB- 132098 male, 70 Years and older Pharmacist	Melatonine 5Mg	5 milligr am / 1 Days		Betahistine Nitrazepam Bromazepam	Hearing decreased	10 Minute s	Drug Withdrawn	Unknow n
68	NL-LRB- 133293 female, 40- 50 Years Physician	Melatonine 1Mg	1 milligr am / 1 Days	Sleep disorder	Methylfenidaat	Nightmare	1 Days	Drug Withdrawn	Recover ed
69	NL-LRB- 136653 female, 40- 50 Years Pharmacist	Melatonine Capsule 5Mg Nvza	5 milligr am / 1 Days	Sleep disorder		Constipation	1 Days	Dose Reduced	Unknow n
70	NL-LRB- 137765 male, 60-70 Years Physician	Melatonine 5Mg	5 milligr am / 1 Days	Insomnia		Hallucination visual Dreaming abnormal	1 Days 1 Days	Drug Withdrawn	Recover ed Recover ed
71	NL-LRB- 140104 male, 4-7 Years Pharmacist	Melatoninu m	1 dosag e form /	Sleep disorder	Valproinezuur	Aggression	1 Days	Drug Withdrawn	Recover ed
72	NL-LRB- 141677 male, 50-60 Years Consumer	Melatonine Capsule 2Mg	2 milligr am /	Insomnia	Lithiumcarbonaat Quetiapine	Weakness of limbs Dizziness Confusion Stomach discomfort	- - -	Drug Withdrawn	Recover ed Recover ed Recover ed

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73	NL-LRB- 144892 male, 10-20 Years Physician	Methylfeni daat Tablet 10Mg Melatonine 1Mg	3 dosag e form / 1 Days 1 milligr am / 1 Days	Attention deficit hyperacti vity disorder Sleep disorder		Hyperpigmentatio n skin	10 Month s 3 Years	Drug Withdrawn, Drug Withdrawn	Recoveri ng
74	NL-LRB- 146153 male, 7-10 Years Physician	Melatonine 1Mg	1 milligr am / 1 Days	Sleep disorder		Nocturnal enuresis	1 Days	Dose Reduced	Recoveri ng
75	NL-LRB- 148663 male, 60-70 Years Physician	Melatonine Capsule 5Mg Nvza	5 milligr am /	Sleep disorder	Fluvoxamine Metoprolol Hydrochloorthiazi de Enalapril	Diarrhoea	1 Days	Drug Withdrawn	Unknow n
76	NL-LRB- 149613 female, 20- 30 Years Pharmacist	Melatonine 3Mg Tablet	3 milligr am / 1 Days	Insomnia	Ethinylestradiol/L evonorgestrel Colecalciferol	Crying Anxiety Decreased appetite Insomnia Listlessness Depression	4 Hours 4 Hours 4 Hours 4 Hours 4 Hours	Dose Not Changed	Not Recover ed Not Recover ed Not Recover ed Not Recover ed Not Recover ed
77	NL-LRB- 150413 female, 40- 50 Years Consumer	Melatonine 1Mg	1 milligr am / 1 Days	Attention deficit disorder	Methylfenidaat	Restless legs	1 Hours	Dose Not Changed	Unknow n
78	NL-LRB- 151414 male, 60-70 Years Consumer	Circadin® Tablet Mva 2Mg	2 milligr am / 1 Days	Insomnia		Erythema facial Burning sensation skin Swelling face	10 Hours 10 Hours 10 Hours	Drug Withdrawn	Recoveri ng Recoveri ng Recoveri ng
79	NL-LRB- 153624 female, 60- 70 Years Physician	Melatonine Capsule 1Mg	1 dosag e form / 1 Days	Sleep disorder	Maprotiline Paroxetine Valproinezuur	Visual hallucinations	2 Days	Drug Withdrawn	Recover ed

00		Molotenia -	0		Dicoprolat	Delpiteticas		Drug	Descusa
80	NL-LRB- 154630 male, 60-70 Years	Melatonine	2 dosag e form / 1		Bisoprolol Fumaraat	Palpitations	-	Drug Withdrawn	Recover ed
81	Consumer NL-LRB- 153417 female, 10- 20 Years Consumer	Concerta Tablet Mva 27Mg (la) Melatonine 3Mg Tablet (la)	Days 27 milligr am / 1 Days 3 milligr am / 1 Days	ADHD Sleep problem		Headache Light headed feeling Nausea Decreased appetite Feeling of warmth Sweating Sleep difficult Listless	1 Hours 1 H H H H H H H H H H H H H H H H H H	Dose Reduced, Dose Not Changed	Recover ed Recover ed Recover ed Recover ed Recover ed Recover ed Recover ed
82	NL-LRB- 155711 female, 40- 50 Years Pharmacist	Abilify Orodisp Tablet 10Mg - Non- Current Drug (Ia) Melatonine (Ia)	10 milligr am / 1 Days 1 dosag e form / 1 Month s	Depressi on Insomnia		Nausea Dizziness Diarrhea Weakness Drug interaction	Hours 2 Hours 2	Drug Withdrawn, Dose Not Changed	Recover ed Recover ed Recover ed Recover ed

83	NL-LRB- 158942 male, 50-60 Years Pharmacist NL-LRB-	Melatonine Tablet 5Mg (la) Temazepa m Capsule 10Mg (la) Melatonine	5 milligr am / 1 Days 10 milligr am / 1 Days	Sleep disorder Sleep disorder Sleep	Citalopram Valproinezuur	Hypersomnia Drug interaction potentiation	1 Month s 1 Month s 1 Month s -	Dose Not Changed, Dose Reduced	Recover ed Recover ed
	160366 female, 20- 30 Years Physician	Tablet 3Mg	dosag e form /	disorder				Withdrawn	ed
85	NL-LRB- 160438 male, 4-7 Years Physician	Melatonine	1 dosag e form / 1 Days	Sleep disorder		Melaena	2 Days	Drug Withdrawn	Recover ed
86	NL- JNJFOC- 201311046 70 years and older female, Physician	Risperdal Tablet Omhuld 0,5Mg Melatonine	1	Drug use for unknown indication Product used for unknown indication		Scleroderma like change Creatine kinase increased Contracture	- - - -	Unknown, Unknown	Unknow n Unknow n Unknow n
87	NL-LRB- 165925 male, 7-10 Years Physician	Melatonine Tablet Mga 2Mg	/	Sleep disorder		Upper abdominal pain Therapeutic response unexpected with drug substitution	2 Weeks 2 Weeks	Drug Withdrawn	Recover ed Recover ed
88	NL-LRB- 171174 female, 20- 30 Years Consumer	Sleepzz ®Melatoni ne 1,5 Mg (Otc)	10 dosag e form / 1 Days	Sleep disorder		Itchy rash	30 Minute s	Drug Withdrawn	Not Recover ed
89	NL-LRB- 171607 female, 70 Years and older Pharmacist	Circadin® Tablet Mva 2Mg	2 milligr am / 1 Days	Insomnia	Metoprolol Oxazepam	Feeling abnormal Poor vision Urination impaired Blood pressure high	-	Drug Withdrawn	Recover ed Recover ed Recover ed Recover ed
90	NL-LRB- 173417 female, 50- 60 Years Consumer	Circadin® Tablet Mva 2Mg	2 milligr am / 1 Days	Insomnia	Verapamil Acetylsalicylzuur Irbesartan Ranitidine Lithiumcarbonaat Levocetirizine Macrogol	Chest pain	4 Hours	Unknown	Recover ed
91	NL-LRB- 178742 female, 40- 50 Years Physician	Melatonine Capsule 5Mg	5 milligr am / 1 Days	Sleep disorder		Diarrhoea	14 Days	Drug Withdrawn	Recover ed
92	NL-LRB- 179180 male, 40-50 Years Pharmacist	Melatonine	2 milligr am / 1 Days	Somnole nce		Myalgia Arthralgia	12 Hours 12 Hours	Drug Withdrawn	Recover ed Recover ed

93	NL-LRB- 181962 female, 40- 50 Years Consumer	Melatonine	1 dosag e form /	Sleep disorder		Paranoid reaction	2 Hours	Drug Withdrawn	Recover ed
94	NL-LRB- 182050 female, 60- 70 Years Consumer	Melatonine Tablet 5Mg	5 milligr am / 1 Days	Poor sleep	Levothyroxine Liothyronine Clonidine Omeprazol Trazodon	Diarrhoea	14 Days	Drug Withdrawn	Recover ed
95	NL-LRB- 182562 female, 30- 40 Years Consumer	Melatonine Capsule 3Mg	1 dosag e form /			Palpitations	20 Minute s	Drug Withdrawn	Recover ed
96	NL-LRB- 183162 female, 40- 50 Years Pharmacist	Melatonine 10Mg	10 milligr am / 1 Days	Insomnia		Dizziness Chest pressure Insomnia Dyspnoea	1 Days 1 Days 1 Days 1 Days	Drug Withdrawn	Recoveri ng Recoveri ng Recoveri ng Recoveri ng
97	NL-LRB- 183552 female, 10- 20 Years Consumer	Melatonine	1 dosag e form / 1 Days	Insomnia		Aggression Depression Fatigue	24 Hours 24 Hours 24 Hours	Drug Withdrawn	Recover ed Recover ed Recover ed
98	NL-LRB- 186744 male, 50-60 Years Consumer	Ascorbinez uur Tablet 250Mg Bisoprolol Tablet 2,5Mg Melatonine Tablet 5Mg Spironolact on Tablet 25Mg Vitamine B Complex Tablet 25Mg Vitamine B Complex Tablet Omhuld - Non- Current Drug Fenprocou mon Tablet 3Mg Metoclopra mide Tablet 10Mg Chloordiaz epoxide Dragee 25Mg	500 milligr am / 1 Days 3 milligr am / 1 Days 5 milligr am / 1 Days 25 milligr am / 1 Days 100 milligr am / 1 Days 100 milligr am / 1 Days 100 milligr am / 1 Days 100 milligr am / 1 Days 100 milligr am / 1 Days 100 milligr am / 1 Days 25 milligr am / 1 Days 100 milligr am / 1 Days 25 milligr am / 1 Days 100 milligr am / 1 Days 100 milligr 25 milligr am / 1 Days 100 milligr 25 mi			Polyneuropathy		Unknown, Unknown, Unknown, Unknown, Unknown, Unknown, Unknown Unknown	Unknow

		Paracetam ol Tablet 500Mg	milligr am / 2000 milligr am / 1						
99	NL-LRB- 188075 male, 70 Years and older Physician	Melatonine Tablet 1Mg	2 milligr am / 1 Days	Sleep disorder	Allopurinol Thiamine Vitamine B Complex Colecalciferol Cetomacrogol Creme	Hyperbilirubinaemi a Hepatic function disorder	-	Drug Withdrawn	Recoveri ng Recoveri ng
10 0	NL-LRB- 197984 male, 70 Years and older Consumer	Melatonine Tablet 3Mg	3 milligr am / 1 Days	Drug use for unknown indication		Nocturia	-	Dose Reduced	Not Recover ed
10 1	NL-LRB- 199912 female, 30- 40 Years Consumer	Melatonine Capsule 1Mg	2 milligr am / 1 Days	Sleep problem		Palpitations Insomnia	30 Minute s 30 Minute s	Drug Withdrawn	Recover ed Recover ed
10 2	NL-LRB- 201631 female, 20- 30 Years Consumer	Melatonine 0.1Mg	milligr am / 1 Days	Insomnia	Rupatadine Montelukast	Feeling drunk Dizziness	7 Hours 7 Hours	Drug Withdrawn	Recoveri ng Recoveri ng
10 3	NL-LRB- 202772 female, 4-7 Years Consumer	Melatonine Tablet 1Mg	1 milligr am / 1 Days	Sleep disorder		Abnormal behaviour	2 Days	Drug Withdrawn	Recoveri ng
10 4	NL-LRB- 203665 male, 40-50 Years Consumer	Melatonine Tablet 3Mg	3 milligr am / 1 Days	Sleep disorder		Abnormal dreams	1 Hours	Drug Withdrawn	Recover ed
10 5	NL-LRB- 206153 female, 40- 50 Years Physician	Melatonine	1 milligr am / 1 Days	Sleep disorder		Muscle spasms Leg edema	8 Hours 8 Hours	Drug Withdrawn	Recover ed Recover ed
10 6	NL-LRB- 206385 male, 40-50 Years Consumer	Melatonine	2 dosag e form / 1 Days	Insomnia		Dizziness Anxiety Heart rate irregular	4 Years 4 Years 4 Years	Drug Withdrawn	Recover ed with squelae Recover ed with squelae Recover ed with squelae
10 7	NL-LRB- 209713 female, 50- 60 Years Consumer	Melatonine	1 dosag e form / 1 Days	Sleep disorder	Irbesartan	Diarrhoea	8 Hours	Drug Withdrawn	Recover ed
10 8	NL-LRB- 211041 male, 10-20 Years Pharmacist	Melatonine Capsule 3Mg	6 milligr am / 1 Days	Insomnia		Jaw stiffness	60 Minute s	Dose Reduced	Recover ed

10 9	NL-LRB- 211194 female, 10- 20 Years Physician	Melatonine Tablet 1Mg	1 milligr am / 1 Days	Sleep disorder	Pantoprazol	Fear Hallucination Unstable feeling Tearing eyes Blurred vision Photopsia Pruritus	5 Hours 5 Hours 5 Hours 5 Hours 5 Hours 5 Hours	Drug Withdrawn	Recover ed Recover ed Recover ed Recover ed Recover ed Recover ed Recover ed
11 0	NL-LRB- 211205 female, 20- 30 Years Consumer	Melatonine 0,3Mg	milligr am / 1 Days	Trouble falling asleep		Menstrual irregularity	6 Hours	Dose Reduced	Recover ed
11 1	NL-LRB- 212444 female, 20- 30 Years Consumer	Ranitidine Hydrochlori de Melatonine Capsule 1Mg	2 dosag e form / 1 Days 2 milligr am / 1 Days	Gastroint estinal discomfo rt Insomnia	Etonogestrel Implantaat 68Mg	Sleep disturbance	1 Days 1 Days	Dose Not Changed, Dose Not Changed	Unknow n
11 2	NL-LRB- 212624 female, 50- 60 Years Consumer	Melatonine	1 dosag e form / 1 Days	Insomnia		Headache	6 Hours	Drug Withdrawn	Unknow n
11 3	NL-LRB- 213364 female, 20- 30 Years Consumer	Melatonine Tablet 3Mg	3 milligr am / 1 Days	Poor sleep	Citalopram	Headache	2 Days	Drug Withdrawn	Recover ed
11 4	NL-LRB- 213586 male, 20-30 Years Consumer	Melatonine 5 Mg Kruidvat [®]	5 milligr am / 1 Days	Insomnia		Bladder pain	10 Hours	Drug Withdrawn	Recover ed
11 5	NL-LRB- 214975 female, 70 Years and older Pharmacist	Circadin® Tablet Mva 2Mg	2 milligr am / 1 Days	Sleep disorder	Estradiol Pleister Temazepam Timolol	Nausea	2 Hours	Drug Withdrawn	Recover ed
11 6	NL-LRB- 216717 female, 50- 60 Years Consumer	Sleepzz Melatonine Time Release®	3 milligr am / 1 Days	Anxiety		Palpitations	4 Hours	Drug Withdrawn	Recover ed
11 7	NL-LRB- 217846 male, 30-40 Years Pharmacist	Melatonine Capsule 3Mg (Ia) Fluvoxami ne Tablet 50Mg (Ia)	3 milligr am / 1 Days 50 milligr am / 1 Days	Insomnia Depressi on		Palpitations Hyperhidrosis Drug interaction	1 Days 1 Days 1 Days 1 Days 1 Days 1 Days	Drug Withdrawn, Dose Not Changed	Recoveri ng Recoveri ng Recoveri ng
11 8	NL-LRB- 218279 male, 30-40 Years Consumer	Melatonine Capsule 1Mg	1 milligr am / 1 Days	Sleep disturban ce		Abnormal dreams Polyuria	2 Days 2 Days	Drug Withdrawn	Not Recover ed Not Recover ed

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11 9	NL-LRB- 219281 male, 70 Years and older Pharmacist	Melatonine Tablet 5Mg	5 milligr am / 1 Days	Insomnia	Hypromellose Carbasalaatcalci um Bruistablet Atorvastatine Levocetirizine Methylfenidaat Pantoprazol Paroxetine	Nausea Hyperhidrosis Palpitations	2 Hours 2 Hours 2 Hours	Dose Reduced	Recover ed Recover ed Recover ed
12 0	NL-LRB- 220099 male, 20-30 Years Physician	Melatonine Tablet 5Mg	5 milligr am /	Sleep disorder		Feeling bad Poor sleep Concentration impaired Forgetfulness Anger	7 Days 7 Days 7 Days 7 Days 7 Days	Drug Withdrawn	Recoveri ng Recoveri ng Recoveri ng Recoveri ng Recoveri ng
12 1	NL-LRB- 220675 female, 60- 70 Years Consumer	Melatonine Capsule 5Mg	5 milligr am / 1 Days	Sleep problem	Escitalopram	Night sweats Headache Restlessness	-	Drug Withdrawn	Recoveri ng Recoveri ng Recoveri ng
12 2	NL-LRB- 221366 female, 30- 40 Years Consumer	Melatonine Capsule 3Mg	3 milligr am / 1 Days	Sleep rhythm reversal	Valproinezuur	Mania	2 Days	Drug Withdrawn	Recover ed
12 3	NL-LRB- 223714 female, 60- 70 Years Consumer	Melatonine Tablet 5Mg	5 milligr am / 1 Days	Insomnia		Diarrhoea	5 Weeks	Unknown	Recoveri ng
12 4	NL-LRB- 225000 female, 30- 40 Years Consumer	Melatonine Tablet 1Mg	1 milligr am / 1 Days	Insomnia		Sleep walking	6 Hours	Dose Reduced	Not Recover ed
12 5	NL-LRB- 227057 female, 60- 70 Years Consumer	Melatonine Tablet 5Mg	5 milligr am / 1 Days	Insomnia	Omeprazol	Headache	2 Month s	Drug Withdrawn	Recover ed
12 6	NL-LRB- 227968 male, 10-20 Years Consumer	Melatonine Capsule 3Mg	3 milligr am / 1 Days	Insomnia		Constipation Abdominal pain	8 Hours 8 Hours	Dose Not Changed	Not Recover ed Not Recover ed
12 7	NL-LRB- 228720 female, 20- 30 Years Consumer	Melatonine Tablet 3Mg	3 milligr am / 1 Days	Sleep rhythm reversal		Anxiety	3 Days	Drug Withdrawn	Not Recover ed
12 8	NL-LRB- 229380 female, 30- 40 Years Consumer	Melatonine Tablet 3Mg	9 milligr am / 1 Month s	Insomnia		Nightmares	5 Hours	Dose Not Changed	Recover ed
12 9	NL-LRB- 230437 female, 60- 70 Years Consumer	Melatonine Forte	1 dosag e form / 1 Days	Insomnia		Epileptiform attacks (NOS)	18 Hours	Drug Withdrawn	Recoveri ng
13 0	NL-LRB- 230885 female, 60- 70 Years Consumer	Melatonine Capsule 1Mg	2 milligr am / 1 Days	Insomnia	Paroxetine	Dizziness Flushing Nausea	30 Minute s 30 Minute s	Drug Withdrawn	Recover ed Recover ed Recover ed

							30 Minute s		
13 1	NL-LRB- 233836 female, 10- 20 Years Pharmacist	Melatonine	1 dosag e form / 1 Days	Sleeples sness	Methylfenidaat Valproinezuur)	Epileptiform attacks (NOS)	4 Years	Dose Not Changed	Recover ed
13 2	NL-LRB- 236082 female, 50- 60 Years Pharmacist	Melatonine	25 milligr am / 1 Days	Drug use for unknown indication	Sumatriptan Colecal/Menaqui	Myalgia Bone pain	-	Drug Withdrawn	Recover ed with squelae Recover ed with squelae
13 3	NL-LRB- 238095 male, 30-40 Years Consumer	Melatonine Tablet 3Mg	3 milligr am / 1 Days	Trouble falling asleep	Duloxetine	Constipation	1 Days	Dose Not Changed	Not Recover ed
13 4	NL-LRB- 239072 female, 10- 20 Years Consumer	Arkorelax®	1 milligr am / 1 Days	Sleep difficult		Abdominal cramps Flatulence Diarrhoea	15 Minute s 15 Minute s 15 Minute s	Drug Withdrawn	Not Recover ed Not Recover ed Not Recover ed
13 5	NL-LRB- 241907 male, 7-10 Years Consumer	Concerta Tablet Mva 36Mg Methylfeni daat Tablet 10Mg Melatonine Tablet 3Mg	36 milligr am / 1 Days 10 milligr am / 1 Days 3 milligr am / 1 Days	ADHD ADHD Sleep disorder	Colecalciferol	Raynaud's syndrome	2 Weeks 2 Weeks 2 Weeks	Dose Not Changed, Dose Not Changed, Dose Not Changed	Recoveri ng
13 6	NL-LRB- 242035 female, 30- 40 Years Consumer	Melatonine	1 dosag e form / 1 Days	Sleeples sness		Malaise Sweating Feeling hot Shaking Rash	10 Minute s 10 Minute s 10 Minute s 10 Minute s	Drug Withdrawn	Recover ed Recover ed Recover ed Recover ed Recover ed
13 7	NL-LRB- 243018 female, 50- 60 Years Consumer	Melatonine Capsule 5Mg	5 milligr am / 1 Days			Feeling abnormal Feeling drunk Nausea Dizziness	s 10 Minute s 10 Minute s 10 Minute s 10 Minute s	Drug Withdrawn	Recover ed Recover ed Recover ed Recover ed

13 8	NL-LRB- 244305 female, 30- 40 Years Physician	Melatonine Tablet 1Mg	1 milligr am / 1 Days	Sleep difficult	Levothyroxine Chloorhexidine	Leukocyte count decreased	-	Drug Withdrawn	Not Recover ed
13 9	NL-LRB- 248110 female, 40- 50 Years Consumer	Melatonine Tablet 1Mg	1 milligr am / 1 Days	Sleep problem	Sertraline Ethinylestradiol/L evonorgestrel	Diarrhoea	1 Days	Dose Not Changed	Not Recover ed
14 0	NL-LRB- 248324 male, 4-7 Years Consumer	Melatonine	2 milligr am / 1	Trouble falling asleep		Behaviour hyperactive	-	Dose Not Changed	Not Recover ed
14 1	NL-LRB- 250043 female, 20- 30 Years Consumer	Melatonine Capsule 1Mg	1 dosag e form /	Insomnia		Headache	8 Hours	Drug Withdrawn	Not Recover ed
14 2	NL-LRB- 212150 female, 50- 60 Years Consumer	Melatonine Tablet 5Mg	3 milligr am / 1 Days	Insomnia		Palpitations Pruritus	2 Weeks 2 Weeks	Drug Withdrawn	Recoveri ng Recoveri ng
14 3	NL-LRB- 00254756 female, 40- 50 Years Physician	Melatonine Tablet 3Mg	3 milligr am / 1 Days	Sleep disorder		Depressed mood Sleepiness	3 Weeks 3 Weeks	Drug Withdrawn	Recover ed Recover ed
14 4	NL-TEVA- 2017-NL- 834113 male, 60-70 Years Other health professiona I	Melatonine	1 milligr am / 1 Days	Difficulty sleeping	Acetylsalicylzuur Formoterol Fluticason- Ciclesonide	Premature ventricular contractions	-	Drug Withdrawn	Recover ed
14 5	NL-TEVA- 2017-NL- 834114 male, 70 Years and older Other health professiona	Melatonine	1 milligr am / 1 Days	Difficulty sleeping	Sitagliptine Atorvastatine Candesartan Metformine	Premature ventricular contractions	-	Drug Withdrawn	Recover ed
14 6	NL-LRB- 00270196 female, 20- 30 Years Pharmacist	Melatonine Tablet 5Mg	1 dosag e form / 1 Days	Sleep disorder	Diazepam Tablet 5Mg	Sleep paralysis Hallucination	30 Minute s 30 Minute s	Not Applicable	Recover ed Recover ed

14 7	NL-LRB- 00277123 male, 70 Years and older Other health professiona	Melatonine Capsule 3Mg	3 milligr am / 1 Days	Sleep disorder NOS	Furosemide Isosorbidemonon itraat Pantoprazol Betamethason Isosorbidedinitra at Natriumchloride Blaasspoeling	Chest pain	4 Days	Drug Withdrawn	Fatal
14 8	NL-LRB- 00278929 female, 40- 50 years Consumer	Melatonine Tablet 1Mg	1 dosag e form /	Initial insomnia		Jaw pain	1 Days	Drug Withdrawn	Recoveri ng
14 9	NL-LRB- 00251803 female, 7- 10 Years Other health professiona	Melatonine Tablet 1Mg	1 milligr am / 1 Days	Drug use for unknown indication		Lack of drug effect Pharmaceutical product complaint	15 Days 15 Days	Unknown	Unknow n Unknow n
15 0*	NL-LRB- 00292433 female, 60- 70 Years Pharmacist	Melatonine Capsule 25Mg	25 milligr am / 1 Days	Immune enhance ment therapy	Anastrozol	Sleeplessness	2 Years	Dose Not Changed	Unknow n
15 1	NL-LRB- 00299763 female, 10- 20 Years Consumer	Melatonine Tablet 5Mg	5 milligr am / 1 Days	Myalgic encephal omyelitis		Memory impairment Headache	-	Drug Withdrawn	Not Recover ed Not Recover ed
15 2	NL-LRB- 00299881 female, 10- 20 Years Consumer	Melatonine Capsule 5Mg	5 milligr am / 1 Days	Insomnia		Palpitations Headache Dizziness Agitated Polyuria Mood swings Blurred vision Breast tenderness Nightmares Flatulence	7 Weeks 7 Weeks 7 Weeks 7 Weeks 7 Weeks 7 Weeks 7 Weeks 7 Weeks 7 Weeks	Dose Reduced	Not Recover ed Recover ed Recover ed Recover ed Recover ed Recover ed Recover ed Recover ed Recover ed Recover Recov
15 3	NL-LRB- 00300118 female, 70 Years and older Consumer	Melatonine Capsule 1Mg	1 dosag e form / 1 Days	Insomnia	Imipramine Bromazepam	Constipation Nausea Somnolence Depressed mood Malaise Restlessness	3 Days 3 Days 3 Days 3 Days 3 Days 3 Days 3 Days	Drug Withdrawn	Unknow n Unknow n Unknow n Unknow n

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15 4	NL-LRB- 00300179 male, 30-40 Years Consumer	Melatonine Tablet 5Mg	3 milligr am / 1 Days	Sleep problem		Feeling anxious Irritability Depressed mood	8 Hours 8 Hours 8 Hours	Drug Withdrawn	Recoveri ng Recoveri ng Recoveri ng
15 5	NL-LRB- 00301230 female, 60- 70 Years Consumer	Melatonine Tablet 5Mg	5 milligr am / 1 Days	Sleep disorder	Progesteron Estradiol	Heart rate increased Chest pain Dizziness Light headedness	8 Hours 8 Hours 8 Hours 8 Hours	Drug Withdrawn	Recover ed Recover ed Recover ed Recover ed
15 6	NL-LRB- 00301562 female, 7- 10 Years Consumer	Melatonine Tablet 1Mg	/	Sleep disorder		Facial rash	5 Days	Dose Not Changed	Not Recover ed
15 7	NL-LRB- 00301654 female, 50- 60 Years Consumer	Melatonine Tablet 1Mg	1 milligr am /	Insomnia		Palpitations Tinnitus Headache Heart rate increased Blood pressure increased	30 Minute s 30 Minute s 30 Minute s 30 Minute s 30 Minute s	Drug Withdrawn	Recover ed Recover ed Recover ed Recover ed
15 8	NL-LRB- 00302800 female, 30- 40 Years Consumer	Melatonine Capsule 1Mg	1 milligr am / 8 Hours	Sleep disorder		Nausea Band like headache Feeling of warmth	20 Minute s 20 Minute s 20 Minute s	Not Applicable	Recover ed Recover ed Recover ed
15 9	NL-LRB- 00306453 female, 4-7 Years Consumer	Circadin® Tablet Mva 2Mg	1 dosag e form / 1 Days	Delayed sleep phase		Awakening early	-	Dose Not Changed	Not Recover ed
16 0	NL-LRB- 00313761 female, 10- 20 Years Consumer	Melatonine Tablet 1Mg	1 dosag e form / 1 Days	Sleep difficult		Low back pain Bowel sounds abnormal Feeling abnormal	12 Hours 2 Hours 12 Hours	Drug Withdrawn	Recover ed Recoveri ng Recover ed

16	NL-LRB- 00312678 female, 60- 70 Years Physician Physician NL-LRB-	Melatonine Tablet 3Mg	3 milligr am / 1 Days 3	Sleep difficult	Sotalol Omeprazol Colecalciferol Risedroninezuur	Tongue disorder Feeling strange Blood pressure low Dyspnea Bradycardia	1 Secon ds 1 Secon ds 1 Secon ds 1 Secon ds 5 Days	Drug Withdrawn Dose Not	Recover ed Recover ed Recover ed Recover ed Recover ed
2	00314367 female, 30- 40 Years Consumer	Tablet 3Mg	milligr am / 1 Days	difficult		Headache	5 Days	Changed	ed Recover ed
16 3	NL-SZ09- PHHY2014 NL104190 female, 10- 20 Years Other health professiona I	Risperidon Tablet Omhuld 0,5Mg Haloperidol Promethazi ne Capsule 25Mg - Non- Current Drug Trazodon Tablet 100Mg Levomepro mazine Tab 25Mg (Als Waterstof maleaat) Melatonine Tablet 3Mg	3 milligr am / 1 Days 1 milligr am / 1 Days 25 milligr am / 100 milligr am / 1 Days / 3 milligr am / 1 Days		Immunoglobuline Normaal Infusiepoeder 0 5G -	Drug ineffective	-	Unknown, Unknown, Unknown, Unknown, Unknown	Unknow n
16 4	NL-LRB- 00318183 female, 30- 40 years Consumer	Melatonine Tablet 3Mg	1 dosag e form / 1 Days	Sleep disturban ce		Depression Fatigue extreme Anxiety Irritability Weight gain Panic attacks	1 Weeks 1 Month s 1 Weeks 2 Weeks 1 Month s	Drug Withdrawn	Recover ed Recover ed Recover ed Recover ng Recover ed
16 5	NL-LRB- 00318389 female, 10- 20 Years Physician	Melatonine Tablet 5Mg	5 milligr am / 1 Days	Sleep disorder		Galactorrhea Hyperprolactinae mia	2 Years 2 Years	Drug Withdrawn	Recoveri ng Recoveri ng

16 6	NL- JNJFOC- 201902079 50-60 female, Consumer	Risperdal Consta Injpdr Flacon 25Mg + Solv 2MI Melatonine	38 milligr am / milligr am /	Product used for unknown indication Product used for unknown indication		Behavior disorder Hypersomnia Tiredness Drug interaction	- - - -	Unknown, Drug Withdrawn	Unknow n Unknow n Recoveri ng Unknow n
16 7	NL-LRB- 00322821 female, 10- 20 Years Physician	Melatonine Tablet 5Mg	1 dosag e form /	Sleep disturban ce	Quetiapine Haloperidol Tablet	Acne vulgaris	5 Days	Dose Reduced	Recoveri ng
16 8	NL-LRB- 00322899 male, 50-60 Years Consumer	Melatonine Tablet 3Mg	1 dosag e form / 1 Days	Insomnia		Depressed mood Fatigue Listlessness	12 Hours 12 Hours 12 Hours	Unknown	Not Recover e Not Recover ed Not Recover ed
16 9	NL- RADNeuri m Pharmaceu ticals EEC Limited- NEU- 001099- 2019 female, Physician	Circadin® Tablet Mva 2Mg	2 milligr am /	Sleep difficult		Drug level in blood increased	-	Drug Withdrawn	Unknow n
17 0	NL-LRB- 00329763 male, 10-20 Years Consumer	Melatonine Pharma Nord Tablet Filmomhul d 3Mg	3 milligr am / 1 Days	Sleep disturban ce		Nausea Hangover Feeling of warmth Shoulder pain Dry mouth	20 Minute s - 15 Minute s 2 Hours 1 Hours	Dose Reduced	Not Recover ed Not Recover ed Not Recover ed Not Recover ed Not Recover ed
17 1	NL-LRB- 00332213 female, 10- 20 Years Consumer	Temazepa m Capsule 10Mg Melatonine	2 dosag e form / 1 dosag e form /	Sleep difficult Sleep difficult		Nightmares Feeling drunk	15 Minute s - 1 Minute s -	Dose Not Changed, Drug Withdrawn	Not Recover ed Not Recover ed
17 2	NL-LRB- 00335651 female, 40- 50 Years Consumer	Melatonine Capsule 3Mg	1 dosag e form / 1 Days	Sleep difficult		Palpitations	4 Hours	Drug Withdrawn	Recover ed
17 3	NL-LRB- 00336968 male, 30-40 Years Consumer	Melatonine Tablet 3Mg		Initial insomnia		Salivary hypersecretion	30 Minute s	Drug Withdrawn	Recoveri ng
17 4	NL- 002147023 -	Melatonine				Lack of drug effect	-	Unknown,	Unknow n

	PHHY2019 NL161319 female, 60- 70 Years Physician	+ 32 other suspect drugs				Drug use for unapproved indication			Unknow n
17 5	NL-LRB- 00345438 female, 10- 20 Years Consumer	Melatonine	1 dosag e form / 1 Days	Autism spectrum disorder		Behavior hyperactive Bleeding Dry skin Aggressive behavior Behavior abnormal	4 Weeks 4 Weeks 4 Weeks 4 Weeks 4 Weeks	Drug Withdrawn	Unknow n Unknow n Unknow n Unknow n Unknow n
17 6	NL-LRB- 00347699 male, 7-10 years Consumer	Melatonine	1 dosag e form / 1 Days	Sleep disorder		Bed wetting	2 Hours	Dose Not Changed	Not Recover ed
17 7	NL-LRB- 00349128 female, 10- 20 Years Physician	Melatonine	1 dosag e form /	Sleep difficult	Macrogol Levothyroxine	Epileptic seizure	3 Hours	Drug Withdrawn	Recover ed
17 8	NL-LRB- 00354238 female, 30- 40 Years Consumer	Melatonine	2 dosag e form / 1 Days	Sleep disorder		Abdominal pain Awakening early	60 Minute s 6 Hours	Drug Withdrawn	Recover ed Recover ed
17 9	NL-LRB- 00359954 male, 40-50 Years Consumer	Melatonine Tablet 0,5Mg	milligr am / 1 Days	Sleep phase rhythm disturban ce	Citalopram Ketoconazol Triamcinolonacet onide	Fatigue aggravated Somnolence Malaise Body dysmorphic disorder Condition aggravated	2 Weeks 2 Weeks 2 Weeks 2 Weeks 2 Weeks	Drug Withdrawn	Recover ed Recover ed Recover ed Recover ed
18 0	NL-LRB- 00362096 female, 10- 20 Years Consumer	Circadin® Tablet Mva 2Mg	2 milligr am / 1 Days	Sleep disorder		Headache Depressed mood Dreams abnormal Alopecia Withdrawal reaction	2 Days 2 Days 2 Days 2 Days 2 Days	Drug Withdrawn	Not Recover ed Not Recover ed Not Recover ed Not Recover ed
18 1*	NL-LRB- 00365707 male, 0-1 years Physician	Citalopram Tablet Omhuld 20Mg Melatonine Tablet 5Mg	20 milligr am / 1 Days 3 milligr am / 1 Days	Depressi on Sleeples sness	Levothyroxine	Talipes congenital Congenital hydronephrosis SSRICongenital hepatomegaly Maternal exposure during pregnancy	- - - - - -	Unknown, Unknown	Not Recover ed Unknow n Recover ed Unknow n

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* immune enhancement therapy in cancer, dosage 25mg **SSRIs (Citalopram) suspect, based on case-reports in the literature