Mini Review

Prescription Drugs Parents Take: Consequences for Children - Mary V Seeman*

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ABSTRACT

Background: It is well-recognized that prescription drugs taken by a mother during pregnancy and/or lactation have the potential of directly affecting offspring, but little is known about the indirect effects of parental drug-taking on older children, as mediated by the impact of their side effects on parenting quality and by the consequences of social modeling.

Aim: This narrative review describes specific psychotropic-induced effects on parents that have the ability of impacting the health of their children.

Method: Terms pertaining to side effects of psychiatric drugs were searched in the Google Scholar database for linkage with health problems in children.

Results: Potential linkages were found for sedation, mobility, obesity, pain, dizziness, overstimulation, and mental confusion.

Conclusion: Although it may be impossible to distinguish the effect on children’s health of parental illness versus treatment of that illness, it is important for clinicians to keep in mind that the adverse effects of drugs can impact not only patients, but also, indirectly, their children.

Keywords: Psychotropic Drugs; Side-Effects; Parenting Behaviors; Modeling

INTRODUCTION

It is well-recognized that prescription drugs taken by a mother during pregnancy and/or lactation can negatively affect the growth and development of offspring, but no attention has been paid to the potential downstream effect on children of parental drug intake. The side effects of postnatal parental drugs can have an impact on children. One universally known health hazard of this nature is second hand smoke exposure, a result of parental smoking. In a 192-country study conducted in 2010, the World Health Organization established the fact that the largest health burden of second hand smoke exposure, a result of parental smoking. In a 192-country study conducted in 2010, the World Health Organization established the fact that the largest health burden of second hand smoke exposure, a result of parental smoking. In a 192-country study conducted in 2010, the World Health Organization established the fact that the largest health burden of second hand smoke exposure, a result of parental smoking. In a 192-country study conducted in 2010, the World Health Organization established the fact that the largest health burden of second hand smoke exposure, a result of parental smoking. In a 192-country study conducted in 2010, the World Health Organization established the fact that the largest health burden of second hand smoke exposure, a result of parental smoking. In a 192-country study conducted in 2010, the World Health Organization established the fact that the largest health burden of second hand smoke exposure, a result of parental smoking.

Children suffer neglect, fear and abuse when parents use addictive substances [3]. As a consequence, they sometimes develop conduct disorders and school problems in childhood, and substance abuse disorders in their teens, as well as a large number of otherwise preventable medical disorders as they age [4,5]. In addition, throughout life, they remain at increased risk for a wide variety of emotional, social, and behavioral problems [6].

What has never been investigated is whether prescription drugs that mothers and fathers need to take over extended periods can pose indirect harm to children. There is reason to believe that they can. Child experts agree that ‘good enough’ parenting [7] needs to be grounded in secure early attachments with parents who are attuned and responsive to an infant’s often very subtle cues [8,9]. A parent who is sedated or over-stimulated because of the medications they take can easily misunderstand an infant’s non-verbal cues, with subsequent negative effect on mother-child attachment. A parent on stimulant drugs may become impatient or irritated. On stimulants, a parent may not need much sleep, and consequently may not provide children with sufficient amounts of resting time. On stimulants, a parent may need little food, and consequently may not provide children with adequate nutrition. A parent on sedative medication may be inattentive to the rapidly changing needs of the child. As a result, the child may suffer neglect. Furthermore, as children grow, mirroring and modeling of parental behaviors may turn the children of parents affected by their medications into inattentive or overly agitated adults [10].

Besides sedation and overstimulation, therapeutic drugs used in psychiatry (antidepressants, anxiolytics, stimulants, antipsychotics, lithium salts, sedatives, analgesics, and mood stabilizers) may produce several other adverse effects that can potentially impact children [11]. Most emergency visits involving side effects of psychiatric medications have been reported to involve women, and most have been found to occur in adults aged between 19 and 44 [11], the period when young children may well be in the home.

The website http://sideeffects.embl.de/se/C0085632/ lists the potential side effects of drugs in general, most of which can be induced by psychiatric drugs and many of which can potentially exert secondary effects on children.

METHOD

This narrative review is a result of searching the multidisciplinary database, Google Scholar, for terms that link the various potential side effects of psychiatric drugs in adults to health problems in children. Where there were many such reports for a particular side effect, only the more recent papers were retained. This is a selective review and many excellent papers have had to be omitted for reasons of space. Only those side effects with the greatest potential impact on children are discussed below.

Altered mental state

Sedation is a frequent side effect of therapeutic drugs [12]. Drugs that induce sedation are antidepressants [13], antipsychotics [14], and also analgesics, antihistamines, dopamine agonists, HIV medications, antihypertensive, anxiolytics, hypnotics, adrenergic blockers, and antiemetics [15]. Sleepy parents pose not only a potential risk to themselves [16], but also to their children [17,18]. They may forget or neglect to attend to parenting responsibilities. Sedative medications are known to impair visual, cognitive, and motor abilities needed for safe driving [19]. When under the influence of sedating drugs, parents may be unable to adequately supervise or protect their children from harm.

A sleepy parent is potentially neglectful of dangers and, at the
same time, unable to provide appropriate stimulation for children, or to react appropriately to a child’s expression of emotion [20]. A tired parent tends to avoid company, is not interested in play or outdoor activities, and may exhibit apathy and blunted affect, which, through the process of emotional contagion, children may learn to assume [21-24].

Parental responsiveness to a child has important implications for a wide range of child outcomes: attachment, security, compliance, behavior problems, and cognitive and emotional development [20,25]. What happens during the early years plays a decisive role in the development of a child’s emotional expressiveness, emotion self-regulation, and emotional understanding of others. Importantly, a child’s emotional expressions and regulation strategies have been found to depend on the caregiver’s activity/passivity levels in relation to the child [26].

Another result of drug-induced lethargy and fatigue is a sedentary life, which, in the long run, is not healthy for children, regular physical activity being a well-documented contributor to the health and quality of life at all ages. Low levels of physical activity, an excess of screen time, whether with TV or with a digital device, has been negatively associated with a variety of physical and mental health indicators in children. Although studies are not always in agreement, inactivity on the part of parents does appear to be mimicked by children as they age [27-30]. There is no controversy about the downside of screen time; the more parents watch TV, play video games, and use computers, the more their children will do the same, to the detriment of their health [31,32].

Mobility problems

Some psychotropic drugs limit activity not by causing fatigue and sedation but by effects on nerves and muscles (extrapyramidal side effects) such as muscle stiffness, tremor, twitching, cramps or dystonias and dyskinesias [33]. Anticholinergic medications, often used to counteract such effects, can, on the other hand, increase the risk of falls and fractures [34]. Motor imbalance can be caused by almost 100 individual drugs, lithium being one of the worst offenders [35]. In addition, many psychoactive drugs lower the seizure threshold and increase the risk of epileptic seizures [36-39].

Such motor effects in parents are frightening to children and are highly visible, tending to embarrass children in front of their peers, and consequently to affect their emotional wellbeing. This has been documented in children whose parents suffer from diseases characterized by motor disabilities [40-43].

Obesity

Many psychotherapeutic drugs are reported to cause weight gain [44] by increasing appetite and lowering rate of metabolism. The person taking such drugs eats more, and may snack in between meals and parental eating behavior is observed and automatically copied by children [45]. In a review of 64 experimental studies, Cruwys et al. 2015 [46] describe a significant social modeling effect for eating. Modeling appears to govern both the extent of food intake and also parental pain increases the risk for pain and adverse mental and physical health outcomes in offspring.

Mobility problems

Stimulants used for ADHD or for depression or eating disorders distort sleep-wake cycles [66] so that parents on stimulant drugs may not appreciate that their child requires more down time than they do. Due to the appetite suppressant effects of stimulants, parents may not feel hungry and may fail to consider their child’s need for regular meals. Such effects have been reported in parents suffering from attention deficit disorder [67].

Memory/confusion/communication

Psychiatric drugs, especially those with an anticholinergic component, negatively affect memory, and lead to confusion in the parent and difficulties of communication with children [68-71]. This may not be as much of a problem for young parents but becomes of increasing importance as the person taking these drugs ages. Many children of psychiatric patients are brought up by grandparents [72] who may, because of age and accumulating maladies, be prescribed several drugs with anticholinergic properties. Forgetfulness and unclear communication result and may lead to significant safety and health concerns for children. All parental disability, including that resulting from medications, has the potential to affect children [73,74], with variable long term effects [10].

DISCUSSION

Drugs that are effective will inevitably produce unwanted side effects in a portion of the population for whom they are prescribed and many of these side effects have the potential of negatively
affecting children. The age and vulnerability of the child, as well as the familial context, will determine how much or how little a child is affected. When there is a negative effect, it may be impossible to determine whether it results from medication use or from the disease for which the parent is being treated, or from other unknown causes. Being aware of the potential negative effects of drugs does not mean advocating against the drugs since they are needed to address the parent’s disease. What it does mean is that clinicians need to ensure that those to whom drugs are prescribed understand the range of side effects their drugs can induce. Should such effects emerge, it means re-assessing the dose of the drug, the frequency with which it is taken, its interaction with other drugs, and raising the possibility of alternative treatments. It means never forgetting to ask about children in the home, their ages, and their vulnerabilities. Parents with mental illness need not only to talk to their children about the symptoms of their illness [75] but also about the effects of the drugs they are taking. Children feel better and do better when they have more information [76].

Offspring of parents who suffer from psychiatric disorders show high risk for mental disorders [77]. Helpful prevention includes normalizing the parents’ behaviors and informing children about both symptoms and side effects of their parents’ illnesses and treatments, while, at the same time monitoring and supporting children’s healthy growth and development.

CONCLUSION

Psychiatric drugs can cause sedation, impair mobility, increase the risk for obesity, cause pain and dizziness; they can overstimulate and lead to mental confusion and disordered communication. In individuals who are parents, all these effects impair parenting ability and can result in conditions and behaviors that are harmful to children. Such behaviors can also be copied by children, to their eventual detriment. The relatively poor health outcomes of children of parents who suffer from mental illness may, to some extent (however minor), be attributable to the indirect effects of their parents’ treatments.

Table 1: Side Effects of Psychiatric Drugs

<table>
<thead>
<tr>
<th>Abnormal behavior or mood, anxiety, depression, disinhibition, irritability, impatience, agitation, rage, aggression, distractibility</th>
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</thead>
<tbody>
<tr>
<td>Altered mental status, apathy, blunted affect, decreased interest, sedation, fatigue,</td>
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<tr>
<td>Cardiorespiratory effects (palpitations, arrhythmia), trouble breathing</td>
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<tr>
<td>Disturbance in consciousness, confusion, disorientation, delirium, sleepwalking</td>
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<tr>
<td>Impalance, dizziness, vertigo, falls, injuries</td>
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<tr>
<td>Pain, headache, gastrointestinal pain, muscle pain</td>
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<tr>
<td>Movement disorder, spasticity, tremor, clumsiness, muscle stiffness, twitching, spasms, restlessness, agitation</td>
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<tr>
<td>Eating disorders hunger, anorexia, nausea, diarrhea</td>
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<tr>
<td>Sexual problems</td>
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</tbody>
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REFERENCES


