



### **ADHD** and Behavioural Disorders

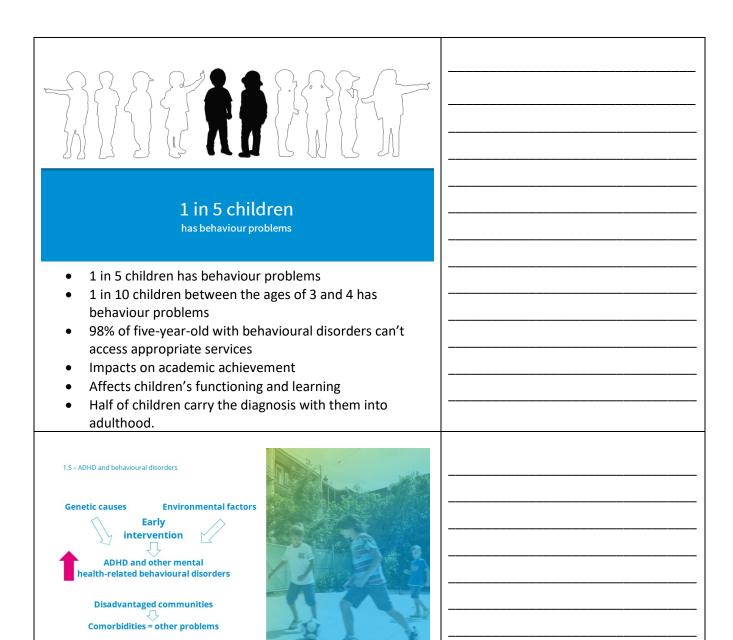
Accompanying and note-taking document

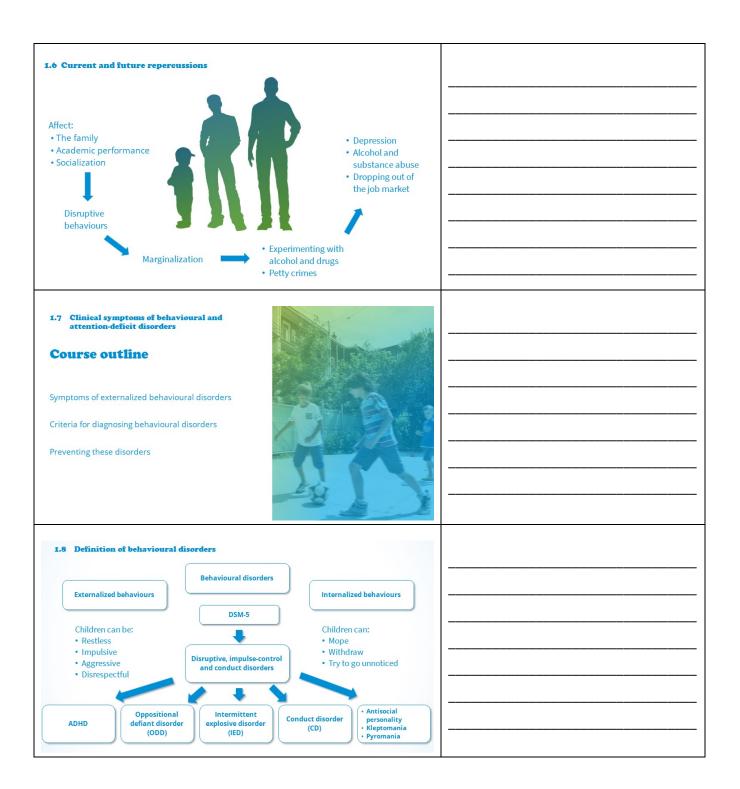
November 2018

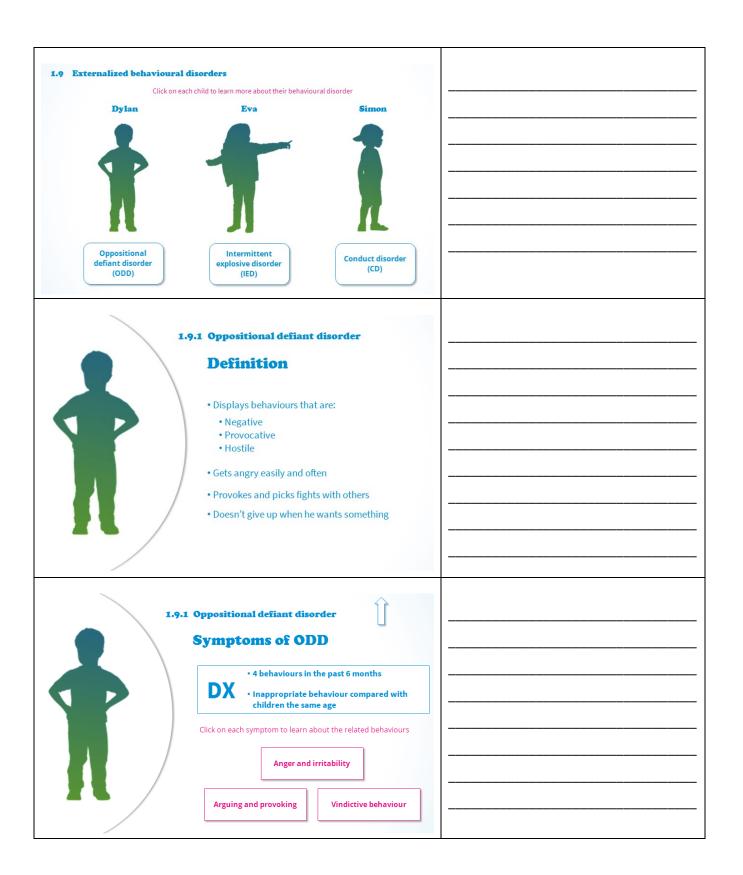


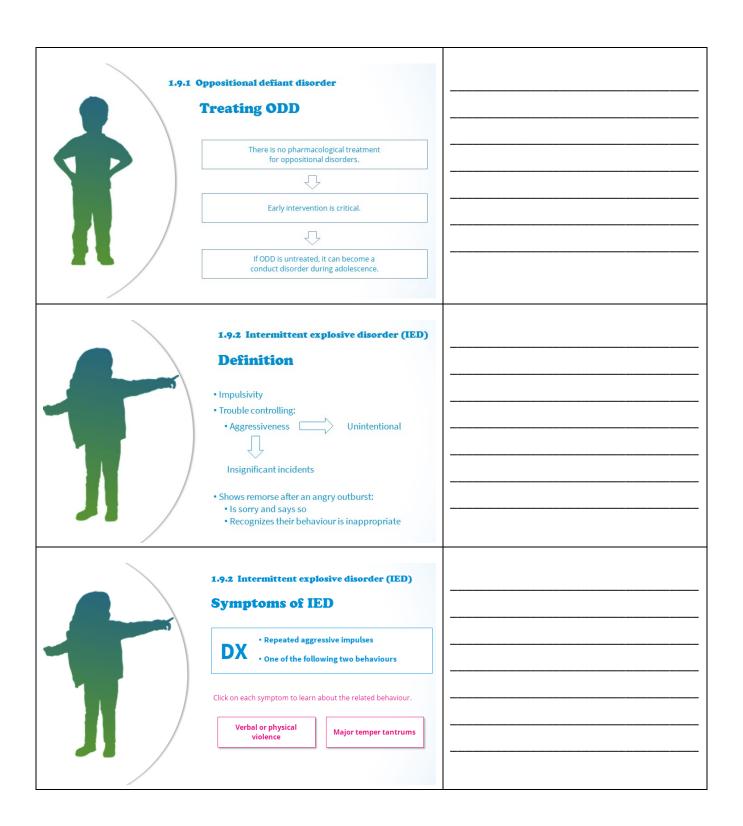
#### **MODULE 01**

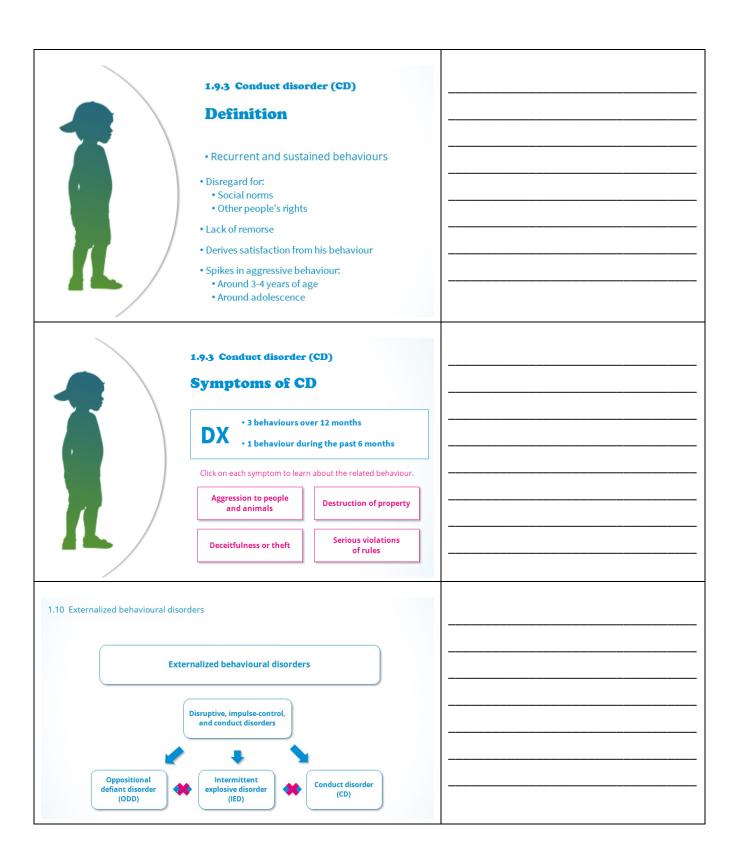
CLINICAL SYMPTOMS OF BEHAVIOURAL AND ATTENTION-DEFICIT DISORDERS

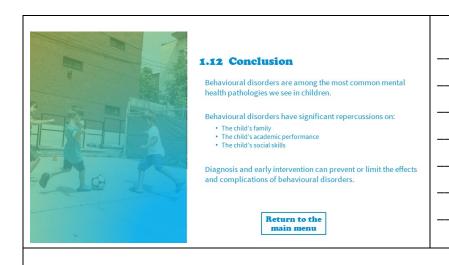




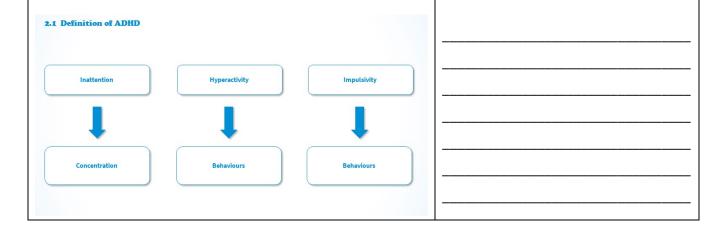






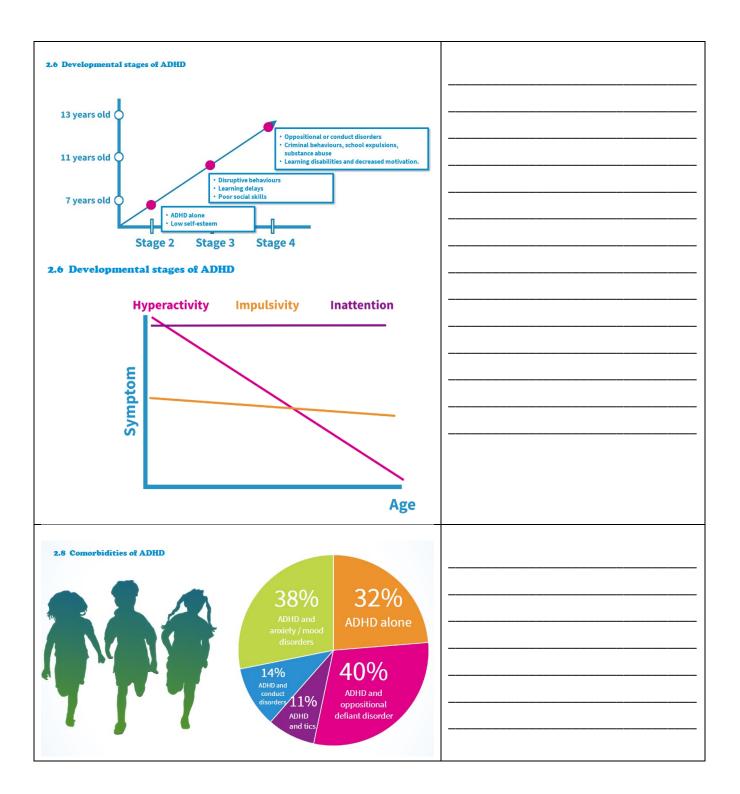


# MODULE 02 ATTENTION-DEFICIT DISORDER WITH OR WITHOUT HYPERACTIVITY



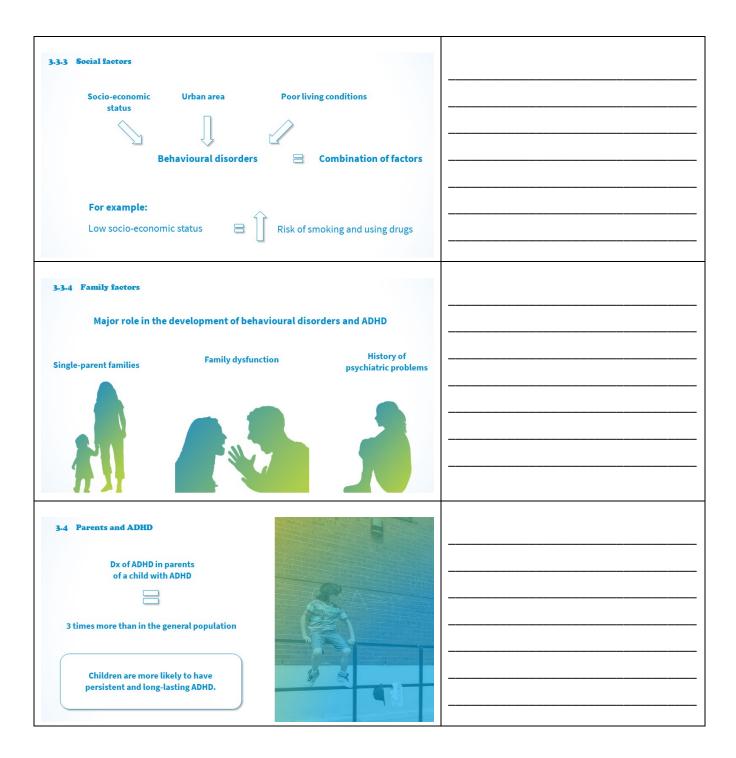
| Inattantian   |
|---|
| Inattention   |
| Children:   |
| <ul> <li>Don't pay attention to details or make careless mistakes in homework or other activities;</li> <li>Often have trouble staying focused on tasks or when playing games;</li> <li>Often don't seem to be listening when someone is speaking to them;</li> <li>Don't follow rules and can't finish homework, household chores or other duties;</li> <li>Have trouble organizing tasks or activities;</li> <li>Avoid, dislike or resist participating in activities requiring sustained concentration;</li> <li>Repeatedly lose things needed for school work or activities;</li> <li>Are easily distracted by external stimuli;</li> <li>Are often formatful throughout the day.</li> </ul>  |
| Are often forgetful throughout the day.  Hyperactivity / impulsivity  |
|   |
| Children:   |
| Fidget with their hands or feet or squirm in their seat;  Cot we often when they are specified and the provider and the seat of the s |
| <ul> <li>Get up often when they are supposed to remain seated;</li> <li>Run around or climb everywhere when it is inappropriate</li> </ul>  |
| to do so;   |
| Often have trouble staying calm during games or other   |
| recreational activities;  |
| Are often "on edge" and seem to be "bouncing off the  |
| walls";   |
| Often talk too much;  |
| Often blurt out answers before hearing the complete   |
| question;   |
| Have trouble waiting for their turn;  |
| Often interrupt or intrude into other people's conversations or games   |

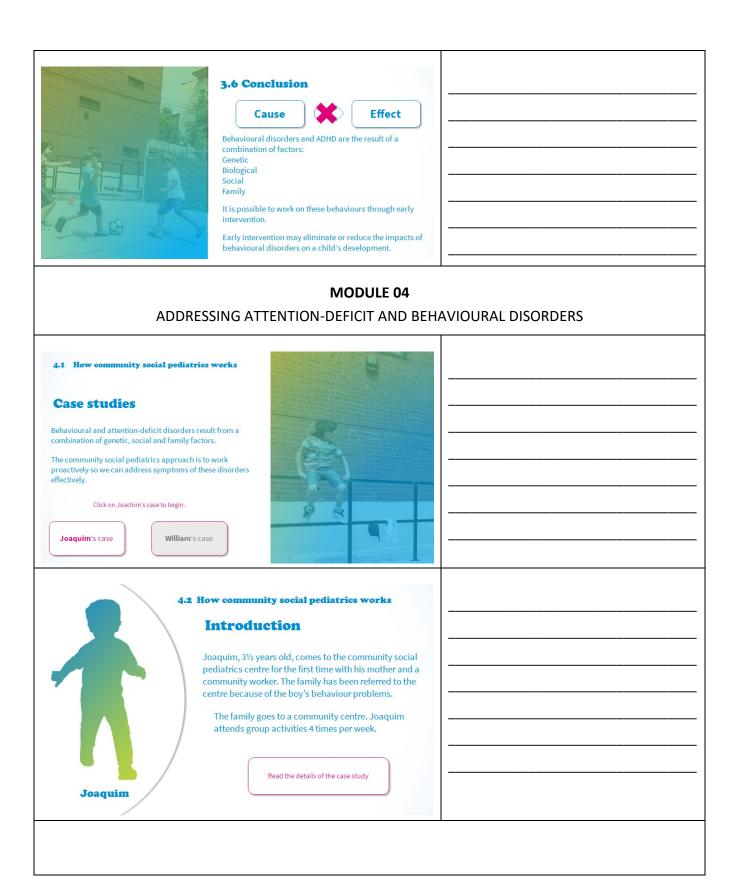
| 2.3 Diagnosing ADHD   |    |
|---|----|
|   |    |
|   |    |
|   | _  |
| 3 conditions:   |    |
|   | -  |
| 1 Symptoms occur For at least 6 months                              | _  |
|   |    |
| Behaviours  In at least 2 settings (example: at home and at school) |    |
|   | _  |
| 3 Behaviours Interfere with a child's functioning and development   |    |
| and development   |    |
|   |    |
|   | +  |
| 2.4 – Impacts of ADHD   |    |
|   |    |
| Before school:  |    |
| - Trouble:  |    |
| <ul> <li>Waking up</li> </ul>                                       |    |
| <ul> <li>Getting Ready</li> </ul>                                   |    |
| <ul> <li>Very volatile relationship with parents</li> </ul>         |    |
| At school:  |    |
| - Lower marks   |    |
| - Lack of concentration   |    |
| - Disruptive behaviours   |    |
| - Problems making and keeping friends                               |    |
| After school:   |    |
|   |    |
| - Trouble doing homework and participating in after-school          |    |
| activities  |    |
| - Unsafe behaviours and injuries                                    |    |
| <ul> <li>Problems making and keeping friends</li> </ul>             |    |
| At bedtime:   |    |
| - Trouble   |    |
| <ul> <li>Getting ready for bed</li> </ul>                           |    |
| <ul> <li>Relaxing / falling asleep</li> </ul>                       |    |
| 3. 3 1  | 1_ |



## 2.9 Risks associated with untreated ADHD Untreated ADHD increases the risk for: Learning delays • Teen pregnancy (7-8 times higher) • Sexually transmitted diseases • Accidental injuries (9 times more visits to hospital emergency departments) Incarceration · Job dismissals • Suicide attempts 2.10 Conclusion ADHD is one of the most prevalent behavioural disorders. Impulsivity Hyperactivity Inattention Impacts throughout the day Untreated ADHD has many repercussions: Comorbidities • Increased associated risks (criminal behaviours, school expulsions, substance abuse) Return to main menu **MODULE 03 CAUSES AND RISK FACTORS** 3.1 Causes and risk factors: Introduction Genetic factors · Changes in the brain • Intellectual disabilities · Traumatic brain injury · Neuroanatomical or neurochemical factors · Environmental factors

| 3.2 Risk factors  |  |
|---|--|
| Click on each factor to learn more.   |  |
| Genetic factors  Biopsychosocial factors  |  |
| Social factors Family factors   |  |
|   |  |
| 3.3.1 Genetic factors   |  |
| No study has been able to clearly identify the genes linked to ADHD   |  |
| Hypothesis 1 Neurotransmitters are not working properly.  |  |
| Hypothesis 2 ADHD children's brains are significantly different from other children's brains.                 |  |
| These factors alone cannot explain the occurrence of ADHD, which confirms that its causes are multifactorial. |  |
|   |  |
| 3.3.2 Biopsychosocial factors   |  |
| Pre-, peri- and post-natal complications  |  |
| Smoking and alcohol/drug use  |  |
| Caesarean (C-section) birth   |  |
| Anesthesia during delivery  |  |
| Length of labour  |  |
| Perinatal asphyxia  |  |
| Low birth weight  |  |
| Premature birth   |  |
| Low Apgar score   |  |
|   |  |





| Case study   |
|--|
| Joaquim's situation and family environment   |
| According to his daycare worker, Joaquim is a sociable child, but he hardly ever listens and is often oppositional. He is not violent. At home, however, he sometimes hurts his little two-year-old sister. He's always moving around. His mother says he's the same at home.  |
| His daycare worker is not sure whether Joaquim understands everything that is said to him. He doesn't yet speak in full sentences and has problems with pronunciation. It is worth mentioning that he hears two languages at home. He was born in the United States and his dad, who is American, speaks English to him. His mother, who has custody, is francophone and speaks to him in French. Joaquim mixes up the two languages. When asked a question, he repeats it before answering. |
| He sometimes appears to tune out. Joaquim likes to stare at lights and wheels on little toy cars. He is not stubborn and his visual contact is normal.   |
| Everyone agrees that Joachim's behaviour is often impulsive and that he is more restless than even the most unsettled children.  |
| Joaquim's medical history is completely normal. There was nothing unusual about his mother's pregnancy or delivery. During the examination, Joaquim talks in his own made-up jargon. Some words, however, are more understandable. He is restless and can't focus. He is also very verbal, bright, sociable and intelligent.   |
| The physical examination is normal except for a slight twist in his tibia that his mother is very worried about. His sleep and eating habits seem fine and he is completely toilet trained.  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

| 4.8 Action plan  The community social pediatrics approach  Eliminate other explanations for Joaquim's restless behaviour.  • Request a hearing test  Set up interventions to help Joaquim develop his language and organizational skills. |  |
|---|--|
|   |  |
|   |  |
| 4.9 Structure and routine for Joaquim   |  |
| Joaquim may be developing ADHD  |  |
| Joaquin may be developing ADHD  |  |
| Set up appropriate interventions  • Increased stimulation   |  |
| Suitable structure and regular routines   |  |
| At home and at daycare  |  |
|   |  |
| 1 Introduce stimulation activities 2 Set up the same routines   |  |
| Language Organization   |  |
| Language Organization   |  |
|   |  |
|   |  |
| 4.10 Conclusion   |  |
| Inagrim's core  |  |
| Joaquim's case:   |  |
| The community social pediatrics team decides not to   |  |
| prescribe medication to Joaquim. He is young, and his mother and the daycare worker are able to handle  |  |
| his behaviour.  |  |
| Joaquim sleeps and eats well and is sociable.   |  |
| So, we can verify the language hypothesis and test  |  |
| other possibilities without compromising his health.  |  |
| The community social pediatrics team will meet with Joaquim   |  |
| and his family in four months to follow up.  Joaquim  |  |
| Juaquini  |  |

| 4.13    | William's case  Introduction  |  |
|---------|---|--|
| William | William, 7 years old, has come to the clinic to be assessed for ADHD. Medication is being considered.  Attending the meeting:  • William and his parents  • The school's psychoeducator  • Social worker  • Nurse  • Doctor |  |

## Case study William's situation and family environment

William is a generally healthy seven-year-old boy. He was a full-term baby and there was nothing unusual about the pregnancy. He doesn't take any medication. The parents don't know if his vaccinations are up-to-date. Ever since starting daycare, he has been prone to constipation.

William has always lived with both his parents and his four brothers and sisters. The family is healthy. Both his parents began working evening shifts six months ago. The family lives in a three-bedroom apartment. William shares a bedroom with his two older brothers. They don't get any services from the local community health clinic.

William's development has been normal. He had no behaviour problems at daycare. His parents say that he has been having temper tantrums often at home for a few months now. They find that the best way to control these episodes and to reduce the length of the tantrums is to avoid upsetting him. He often fights with his siblings in the evenings and is frequently physically violent. His father has had to hold him down several times over the past few weeks for everyone else's protection. Sometimes he says he is sorry for what he said or did during these tantrums.

The psychoeducator tells you that William is having a lot of trouble focusing in class. He often gets up from his seat and sometimes refuses to do what he is asked. On the other hand, when he embarks on a task that he likes, he can finish it in just a few minutes without making many mistakes. He is becoming more and more isolated in the schoolyard because of his frequent conflicts with other kids. He has trouble following rules when he plays games with others. When someone at school says no to him, this can trigger an enormous tantrum. The psychoeducator often has to intervene but other than that, William doesn't see her regularly.

Since school started this year, William has been failing most of his subjects. He hardly ever does his homework.

He often complains of stomach aches at school, which worries his teacher. Every day, he says his tummy hurts. He never has stomach aches at home. He has a bowel movement every other day or every three days. His stool is hard and having a bowel movement is painful for William. He has blocked the toilet a couple of

| times, which is why he holds it in and never has a bowel movement at school. There is no blood in his stool.   |  |  |  |  |
|--|--|--|--|--|
| There has been no recent change in his weight or his appetite, nor any vomiting.   |  |  |  |  |
| His sleep is normal. His diet is low in fruit and vegetables and he doesn't drink much water.  |  |  |  |  |
| The rest of the questionnaire doesn't reveal anything unusual  |  |  |  |  |
| ,  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Casa abudu.  |  |  |  |  |
| Case study Physical examination  |  |  |  |  |
| Thysical examination   |  |  |  |  |
| William's growth curve is normal, as is his blood pressure. His clothes are full of stains and he exudes a strong,   |  |  |  |  |
| unpleasant smell. His nails are long and dirty. He has long, tangled hair.   |  |  |  |  |
| When you examine his mouth, you notice several cavities.   |  |  |  |  |
| when you examine his mouth, you notice several cavities.   |  |  |  |  |
| When he strips down to his underwear so you can examine his lower limbs, you notice some stool soiling in  |  |  |  |  |
| his underpants. His abdomen is normal, as are the neurological examinations of his lower limbs and spine.  |  |  |  |  |
| The examination shows nothing else out of the ordinary.  |  |  |  |  |
| You check William's vaccination record. He hasn't been vaccinated since he was one.  |  |  |  |  |
|  |  |  |  |  |
| While you are doing the physical examination, the parents talk with the social worker. They admit that the   |  |  |  |  |
| last few months have been very difficult for the family. William's godfather died by suicide a few weeks ago.  |  |  |  |  |
| He and William were very close, but William won't talk about it with his family. They are saddened to discover   |  |  |  |  |
| at this meeting that William is having so much trouble at school. According to them, he has never had problems and they had hoped he would do well in school. They admit that they have sort of lost track of what |  |  |  |  |
| is happening because they aren't home on weeknights. The parents also mention that they are currently  |  |  |  |  |
| having relationship problems and that they almost separated this year. They decided to stay together but   |  |  |  |  |
| they still argue frequently and they sometimes "yell at each other".   |  |  |  |  |
| NA/lean and the state of the NA/III and the second and the body and the state of NA/III and an affect of   |  |  |  |  |
| When you return to the table with William, the social worker tries to bring up the topic of William's godfather  |  |  |  |  |
| with him, but he says he doesn't want to talk about it.  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

| 4.22 Action plan          |  |  |
|---------------------------|--|--|
|                           | Lifecourse trajectory                                      |  |
| Several difficulties:     | ,  | Successes  |
| • Limited parental prese  | nce  |  |
| • Loss of his godfather   |  |  |
| • Problems in school      |  |  |
|                           |  | Long-term consequences   |
|                           |  | in adulthood:  |
| Community socia           | l  | Employability  |
| pediatrics approac        |  | <ul><li>Interpersonal relationships</li><li>Mental and physical health</li></ul> |
|                           |  | • Etc.   |
|                           |  |  |
| 4.23 Assessment/cou       | irse of action meeting                                     |  |
|                           |  | _  |
|                           | • Build a trusting relationship                            | E  |
|                           | Share all information needed                               | -  |
| Assessment/course         | Share all information needed understand a child's situatio |  |
| of action meeting         | Weekley and and formulated                                 | _  |
|                           | Work together to formulate:  • Working hypotheses          | D  |
|                           | Horning Hypotheses   |  |
|                           | • An action plan   | A  |
|                           |  |  |
|                           |  |  |
| 4.24 William's assessi    | ment/course of action meeting                              |  |
|                           |  |  |
|                           |  |  |
|                           |  |  |
|                           |  | sible ADHD   |
| The meeting about William | • Nee  | d for medication   |
|                           | raieits  | ware of his problems at school   |
|                           | • Seer   | m baffled by his behaviour   |
|                           |  |  |
|                           |  |  |

| 4.25 Outcomes of the assessment/course of action meeting  Discuss behaviour problems  Recognize the stressors linked to these behaviours  ADHD  William doesn't meet the criteria  He is nonetheless in great emotional distress  The community social pediatrics team suggests:  • William's behaviour is a symptom of this distress  • We find ways to ease his suffering |  |
|---|--|
|   |  |
| 4.26 Coming up with solutions so William can  |  |
| meet with success and have positive experiences   |  |
| Interests / dreams / abilities  |  |
| Suggest an activity that William will like  * Register him in a sports or recreational activity  * Get to know William recreational activity  |  |
| Invite him to the community social pediatrics centre      Build a trusting relationship with him  |  |
|   |  |
|   |  |
| • Understand the parents parents' reality with the family   |  |
| • Get a sense of what the • Allow everyone to better  |  |
| parents would like to do understand the situation to help William   |  |
|   |  |
|   |  |
| 4.27 Conclusion   |  |
| Some children seem to have behavioural disorders or ADHD, but don't meet the diagnostic criteria for these conditions.  |  |
| Disruptive behaviours often stem from difficult living situations.  |  |
| We need to:   |  |
| Recognize stressors in a child's life   |  |
| Do an overall assessment of the child   |  |
| William's case:   |  |
| The school psychotherapist can set up services to meet William's needs.   |  |
| The community social pediatrics team will meet with William and his   |  |
| <b>William</b> family in a few months to follow up and modify the action plan accordingly.  |  |