

*Basic Facts About*

# SCHIZOPHRENIA



14<sup>th</sup> edition 2008

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*“We’d like to change your mind”*

# LETTER TO YOUNG PEOPLE, EDUCATORS, PARENTS, AND OTHERS

If you want to learn some basic facts about schizophrenia, we hope you find this booklet useful. Please remember, the text is meant only as an introduction — it should not be used as a diagnostic tool.

Most of the information in the booklet comes from other books, articles, and people's personal experience. If you need to know more about schizophrenia, talk to your doctor or to a mental health professional.

Please note that this information may be reproduced in quantity, provided it is for bona fide educational purposes.

We'd like to hear your comments. Did you find this booklet useful? Any ideas for improvements? You can contact us at:

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# SCHIZOPHRENIA: GET THE FACTS

- Schizophrenia is a neurological disorder that strikes young people in their prime
- Schizophrenia distorts the senses and impairs cognition, sometimes making it difficult to tell what is real from what is not real
- The usual age of onset is between 16 and 25
- Schizophrenia is a medical illness. *Period.*
- Treatment works!
- **Early diagnosis and modern treatment greatly improve prognosis for the illness.**

## SCHIZOPHRENIA IS *NOT RARE*: NO ONE IS IMMUNE

- Schizophrenia is found all over the world—in all races, in all cultures and in all social classes
- It affects *1 in 100 people* worldwide. That's about 40,000 of our BC neighbours — or 300,000 fellow Canadians

## MEN AND WOMEN ARE AFFECTED WITH EQUAL FREQUENCY

- For men, the age of onset for schizophrenia is often ages 16 to 20
- For women, the age of onset is sometimes later—ages 20 to 30

## WE ARE *ALL* AFFECTED

- Schizophrenia accounts for one in every 12 hospital beds in Canada – more than for any other medical condition
- The cost to Canadian society due to hospitalization, disability payments, welfare and lost productivity amounts to \$6.85 billion annually
- Other costs—such as personal anguish, the loss of individual potential, and family hardship—are impossible to measure.

# EARLY WARNING SIGNS

This list of warning signs was developed by people whose relatives have schizophrenia. Many behaviours are within the range of normal responses to situations. Yet families sense—even when symptoms are mild—that behaviour is “unusual”; that the person is “not the same”.

The number and severity of these symptoms differ from person to person—although almost everyone mentions ***noticeable social withdrawal***.

- Deterioration of personal hygiene
- Depression
- Bizarre behaviour
- Irrational statements
- Sleeping excessively *or* inability to sleep
- Social withdrawal, isolation, and reclusiveness
- Shift in basic personality
- Unexpected hostility
- Deterioration of social relationships
- Hyperactivity or inactivity—or alternating between the two
- Inability to concentrate or to cope with minor problems
- Extreme preoccupation with religion or with the occult
- Excessive writing without meaning
- Indifference
- Dropping out of activities—or out of life in general
- Decline in academic or athletic interests
- Forgetting things
- Losing possessions
- Extreme reactions to criticism
- Inability to express joy
- Inability to cry, or excessive crying
- Inappropriate laughter
- Unusual sensitivity to stimuli (noise, light, colours, textures)
- Attempts to escape through frequent moves or hitchhiking trips
- Drug or alcohol abuse
- Fainting
- Strange posturing
- Refusal to touch persons or objects; wearing gloves, etc.
- Shaving head or body hair
- Cutting oneself; threats of self-mutilation
- Staring without blinking—or blinking incessantly
- Flat, reptile-like gaze
- Rigid stubbornness
- Peculiar use of words or odd language structures
- Sensitivity and irritability when touched by others.

# WHAT CAUSES SCHIZOPHRENIA?

*“We do not yet understand precisely the cause of schizophrenia, but research is progressing rapidly.”*

— Seeman, Littmann, et al.

Researchers now agree that—while we do not yet know what “causes” schizophrenia—many pieces of the puzzle are becoming clearer. Areas of study and interest are:

- **BIOCHEMISTRY** — People with schizophrenia appear to have a neurochemical imbalance. Thus, some researchers study the neurotransmitters that allow communication between brain cells. Modern antipsychotic medications now primarily target three different neurotransmitter systems (*dopamine, serotonin, and norepinephrine.*)
- **CEREBRAL BLOOD FLOW** — With modern brain imaging techniques (PET scans), researchers can identify areas that are activated when the brain is engaged in processing information. People with schizophrenia appear to have difficulty “coordinating” activity between different areas of the brain. For example, when thinking or speaking, most people show increased activity in their frontal lobes, and a *lessening* of activity in the area of the brain used for listening. People with schizophrenia show the same increase in frontal lobe activity—but there is *no decrease of activity* (“dampening” or “filtering”) in the other area. Researchers have also been able to identify specific areas of unusual activity during hallucinations.
- **MOLECULAR BIOLOGY** — People with schizophrenia have an irregular pattern of certain brain cells. Since these cells are formed long before a baby is born, there is speculation that:
  1. This irregular pattern may point towards a possible “cause” of schizophrenia in the prenatal period; or
  2. The pattern indicates a predisposition to acquire the disease at a later date.
- **GENETIC PREDISPOSITION** — Genetic research continues, but has not yet positively identified a hereditary gene for schizophrenia. Schizophrenia *does* appear more regularly in some families. Then again, many people with schizophrenia have no family history of the illness.

- **STRESS** — Stress does not *cause* schizophrenia. However, it has been proven that *stress makes symptoms worse when the illness is already present*.
- **DRUG ABUSE** — Drugs (including alcohol, tobacco, and street drugs) themselves do not cause schizophrenia. However, certain drugs can make symptoms worse or trigger a psychotic episode if a person already has schizophrenia. Drugs can also create schizophrenia-like symptoms in otherwise healthy individuals.
- **NUTRITIONAL THEORIES** — While proper nutrition is essential for the well-being of someone with schizophrenia, it is not likely that a lack of vitamins causes schizophrenia. Claims that promote megavitamin therapy have not been substantiated.  
Some people do improve while taking vitamins. However, this can be due to concurrent use of antipsychotic medication, or to the overall therapeutic effect of a good diet, vitamin and medication regime. Or—these individuals may be part of a small group who will recover no matter what treatment is used.

So — while we don't know the actual cause of schizophrenia, we do know that...

### SCHIZOPHRENIA IS:

- A brain disease, with concrete and specific symptoms due to physical and biochemical changes in the brain
- An illness that strikes young people in their prime—age of onset is usually between 16 and 25
- Almost always treatable with medication
- More common than most people think. It affects 1 in 100 people worldwide—that's about 300,000 Canadians, including over 40,000 of our BC neighbours.

### SCHIZOPHRENIA IS NOT:

- A “split personality”
- Caused by childhood trauma, bad parenting, or poverty
- The result of any action or personal failure by the individual



# IMPORTANCE OF EARLY INTERVENTION

Psychosis can be very stressful for an individual, as well as for family and friends. Because schizophrenia starts in the teens or early twenties, it often has a serious impact on normal development—affecting the person's sense of identity, relationships, educational goals, and career plans.

## SOCIAL DEVELOPMENT

Schizophrenia disrupts a young person's life at its most critical stage of development. Serious secondary problems then develop.

Psychosis isolates the ill person from others and interferes with peer relationships. Personal and social development is interrupted, and may even regress. The quality of academic and vocational effort declines, and there can be profound loss in terms of social and economic plans for the future.

Family relationships may also be strained or broken. The person may start abusing drugs or alcohol. They may become homeless. Their risk for suicide is multiplied.

**The longer psychosis is left untreated, the greater the risk that:**

- **The person's social development will be permanently derailed**
- **The illness will become more and more entrenched**

## "TOXIC" PSYCHOSIS

Evidence indicates that delayed treatment may cause schizophrenia to become more *biologically entrenched* and less responsive to treatment. The theory is that psychosis itself may be toxic and damaging to the brain.

Early diagnosis and treatment can lead to more significant recovery and better patient outcomes. By contrast, the longer the illness goes untreated — (i) the longer it takes for symptoms to improve; (ii) the less the degree of remission; and (iii) the greater the chance of relapse.

Studies show that the duration of untreated schizophrenia (time between first signs of illness and treatment) is approximately three years. They also indicate that the delay between the onset of acute psychosis and the start of appropriate treatment is often a year or more.

**Because young lives are so irreparably damaged when early signs of psychosis are ignored, our health care system needs clear and effective strategies for early intervention.**

# RECOVERY IS EXPECTED

MYTH: *Rehabilitation can be provided only after stabilization.*

REALITY: *Rehabilitation should begin on Day One.*

— Dr. Courtenay Harding, University of Colorado School of Medicine

Some of the most recent and hopeful news in schizophrenia research is emerging from studies in the field of psychosocial rehabilitation. New studies challenge several long-held myths in psychiatry about the inability of people with schizophrenia to recover from their illness. It appears that such myths, by being overly pessimistic about outcomes, may significantly reduce patients' opportunities for improvement and/or recovery.

In fact, the long-term perspective on schizophrenia should give everyone a sense of hope and optimism. According to Dr. G. Gross, author of a 22-year study of 508 patients with schizophrenia:

*“...schizophrenia does not seem to be a disease of slow, progressive deterioration. Even in the second and third decades of illness, there is still potential for full or partial recovery.”*

It is now clear that accurate cognitive assessments and appropriate rehabilitation programs are important aspects of treatment. Also, when family input is solicited and families are included as part of the treatment “team”, patient outcomes are greatly improved.

Families need and want education and information. They need coping and communication skills, emotional support, and to be treated as collaborators. For this reason, knowledgeable clinicians make a special effort to engage family members. Once a relationship is established, clinician, patient and family can work together to identify needs and appropriate interventions. When everyone has the information they need, they are better able to have realistic yet positive views about improvement and possible recovery.

Studies show that families who receive education about the illness are more supportive, less judgmental, and less critical. Such families can do a lot to help patients recover. On the other hand, patients who are around chaotic or volatile family members usually have a more difficult time, and have to return to hospital more often.

It is important for family members to assess their own coping skills and try to anticipate and adapt to the ups and downs of the illness. Calm assurance, assistance and support from family members can make a difference to the person with schizophrenia.

# SCHIZOPHRENIA SYMPTOMS

*"I just couldn't accept the fact that he had an above average I.Q., was good looking, had a good personality—and was so ill."*

— Parent of a child with schizophrenia

Just as other diseases have signs or symptoms, so does schizophrenia. Symptoms are not identical for everyone. Some people will have only one episode of schizophrenia in their life. Others have recurring episodes, but can lead relatively normal lives in between. Others may have severe symptoms for a lifetime.

Schizophrenia *always* involves a change in ability and personality. Family members and friends notice that the person is "not the same." Because they are experiencing perceptual difficulties—trouble knowing what is real from what is not real—the ill person often begins to withdraw as their symptoms become worse. Deterioration is usually observed in:

- Work or academic activities
- Relationships with others
- Personal care and hygiene

## CHARACTERISTIC CHANGES

- **PERSONALITY CHANGE** is often a key to recognizing schizophrenia. At first, changes may be subtle, minor, and go unnoticed. But eventually it becomes obvious to family, friends, classmates or co-workers that something is wrong. There may be loss of emotion, interest and motivation. A normally outgoing person may become withdrawn, quiet, or moody. Emotions may also be inappropriate—the person may laugh in a sad situation, or cry over a joke—or may not be able to show any emotion at all.
- **THOUGHT DISORDER** is the most profound change. It prevents clear thinking and rational response. Thoughts may be slow to form, or come extra fast, or not at all. The person may jump from topic to topic, seem confused, or have difficulty making simple decisions. Thinking may be coloured by delusions—false beliefs that have no logical basis. Some people believe they are being persecuted—convinced someone is spying on them or plotting against them. They may have grandiose delusions or think they are all-powerful, capable of anything, and invulnerable to danger. They may also have a strong religious drive, or believe they have a personal mission to right the wrongs of the world.

- **PERCEPTUAL CHANGES** turn the world of the ill person topsy-turvy. Sensory messages to the brain from the eyes, ears, nose, skin, and taste buds become confused—and the person may actually see, hear, smell or feel sensations that are not real. These are called *hallucinations*.

People with schizophrenia will often hear voices. Sometimes the voices are threatening or condemning. They may also give direct orders such as, "kill yourself". *There is always a danger that such commands will be obeyed.*

People who are ill may also have visual hallucinations—a door in a wall where no door exists; a lion, a tiger, or a long-dead relative may suddenly appear. Colours, shapes, and faces may change before the person's eyes. This is an extremely frightening experience.

There may also be hypersensitivity to sounds, tastes, and smells. A ringing telephone might seem as loud as a fire alarm, or a loved one's voice as threatening as a barking dog. Sense of touch may also be distorted. Someone may literally "feel" their skin is crawling—or conversely, they may feel nothing, not even pain from a real injury.

- **SENSE OF SELF:** When one or all five senses are affected, the person may feel out of time, out of space—free floating and *bodiless*—and non-existent as a person.

Someone who is experiencing such profound and frightening changes will often try to keep them a secret.

There is usually a strong need to deny what is happening, and to avoid other people and situations where the fact that one is "different" might be discovered. Intense misperceptions of reality trigger feelings of dread, panic, fear, and anxiety—natural reactions to such terrifying experiences.

Psychological distress is intense, but most of it remains hidden—so there may be strong denial, born out of fear. The pain of schizophrenia is further accentuated by the person's awareness of the worry and suffering they may be causing their family and friends.

People with schizophrenia need understanding, patience, and reassurance that they will not be abandoned.

# COGNITIVE DEFICITS

- Neurocognitive deficits are a core feature of schizophrenia.
- **94%** of patients with schizophrenia have cognitive deficits.
- Cognition problems—reduced attention span, difficulties with memory, reasoning, judgement, problem solving, and decision making—are key features of schizophrenia.
- Memory is particularly impaired. Executive function—the ability to plan, prioritize and implement strategies—is also disrupted.
- **Cognitive deficits are probably the most important factor for poor outcome in people with the illness.**
- Cognitive abilities are more predictive of functional outcome than psychotic symptoms.
- Research shows that *verbal memory*, *executive functioning* and *visual vigilance* predict functional outcome in schizophrenia.
- Compared to psychotic symptoms, neurocognitive deficits are not as noticeable or odd. But, the deficits are still there — and they have an enormous impact on the patient's life.
- Little effort is made at present to test cognitive functioning in people with schizophrenia.
- Cognitive testing can greatly benefit patients, clinicians, families and other caregivers.
- Data evaluation from neurocognitive testing of patients with schizophrenia would result in better service planning for all people who suffer from the disease.

# WHAT IS IT LIKE TO HAVE SCHIZOPHRENIA?

*Despite her illness, Janice Jordan has successfully worked as a technical editor for over 20 years and has written a book of poetry based on her experience.*

"The schizophrenic experience can be a terrifying journey through a world of madness no one can understand, particularly the person travelling through it. It is a journey through a world that is deranged, empty, and devoid of anchors to reality. You feel very much alone. You find it easier to withdraw than cope with a reality that is incongruent with your fantasy world. You feel tormented by distorted perceptions. You cannot distinguish what is real from what is unreal. Schizophrenia affects all aspects of your life. Your thoughts race and you feel fragmented and so very alone with your "craziness..."

"I have suffered from schizophrenia for over 25 years. In fact, I can't think of a time when I wasn't plagued with hallucinations, delusions, and paranoia. At times, I feel like the operator in my brain just doesn't get the message to the right people. It can be very confusing to have to deal with different people in my head. When I become fragmented in my thinking, I start to have my worst problems. I have been hospitalized because of this illness many times, sometimes for as long as 2 to 4 months.

I guess the moment I started recovering was when I asked for help in coping with the schizophrenia. For so long, I refused to accept that I had a serious mental illness. During my adolescence, I thought I was just strange. I was afraid all the time. I had my own fantasy world and spent many days lost in it.

I had one particular friend. I called him the "Controller." He was my secret friend. He took on all of my bad feelings. He was the sum total of my negative feelings and my paranoia. I could see him and hear him, but no one else could.

The problems were compounded when I went off to college. Suddenly, the Controller started demanding all my time and energy. He would punish me if I did something he didn't like. He spent a lot of time yelling at me and making me feel wicked. I didn't know how to stop him from screaming at me and ruling my existence. It got to the point where I couldn't decipher reality from what the Controller was screaming. So I withdrew from society and reality. I couldn't tell anyone what was happening because I was so afraid of being labelled as "crazy." I didn't understand what was going on in my head. I really thought that other "normal" people had Controllers too.

While the Controller was his most evident, I was desperately trying to earn my degree. The Controller was preventing me from coping with everyday events. I tried to hide this illness from everyone, particularly my family. How could I tell my family that I had this person inside my head, telling me what to do, think, and say?

It was becoming more and more difficult to attend classes and understand the subject matter. I spent most of my time listening to the Controller and his demands. I really don't know how I made it through college...

Since my degree was in education, I got a job teaching third grade. That lasted about 3 months, and then I ended up in a psychiatric hospital for 4 months. I just wasn't functioning in the outside world. I was very delusional and paranoid, and I spent much of my time engrossed with my fantasy world and the Controller.

My first therapist tried to get me to open up, but...I didn't trust her and couldn't tell her about the Controller. I was still so afraid of being labelled "crazy." I really thought that I had done something evil in my life and that was why I had this craziness in my head. I was deathly afraid that I would end up like my three uncles, all of whom had committed suicide.

I didn't trust anyone. I thought perhaps I had a special calling in life, something beyond normal. Even though the Controller spent most of the time yelling his demands, I think I felt blessed in some strange way. I felt "above normal." I think I had the most difficulty accepting that the Controller was only in my world and not in everyone else's world. I honestly thought everyone could see and hear him...I thought the world could read my mind and everything I imagined was being broadcast to the entire world. I walked around paralysed with fear...

My psychosis was present at all times. At one point, I would look at my co-workers and their faces would become distorted. Their teeth looked like fangs ready to devour me. Most of the time I couldn't trust myself to look at anyone for fear of being swallowed. I had no respite from the illness... I knew something was wrong, and I blamed myself. None of my siblings have this illness, so I believed I was the wicked one.

I felt like I was running around in circles, not going anywhere but down into the abyss of "craziness." Why had I been plagued with this illness? Why would God do this to me? Everyone around me was looking to blame someone or something. I blamed myself. I was sure it was my fault because I just knew I was wicked. I could see no other possibilities...

I do know that I could not have made it as far as I have today without the love and support of my family, my therapists, and my friends. It was their faith in my ability to overcome this potentially devastating illness that carried me through this journey.

...So many wonderful medications are now available to help alleviate the symptoms of mental illness. It is up to us, people with schizophrenia, to be patient and to be trusting. We must believe that tomorrow is another day, perhaps one day closer to fully understanding schizophrenia, to knowing its cause, and to finding a cure..."

— Janice C. Jordan. From *Adrift In An Anchorless Reality*  
Schizophrenia Bulletin, Volume 21, No. 3, 1995

# THE “BLAME AND SHAME” SYNDROME

*"People do not cause schizophrenia; they merely blame each other for doing so."* — E. Fuller Torrey, MD.

Unfortunately, there is a common tendency among people with schizophrenia and their family members to blame themselves or to blame one another. Sisters and brothers often share the same worries and fears as their parents.

In the following story, a parent describes "blame and shame" from personal experience...

*"I have two sons. My older son is 22 and is in an advanced stage of muscular dystrophy. My younger son is 21 and has been diagnosed as chronically mentally ill.*

*The son who is physically disabled has many special needs. He gets emotional support everywhere he turns. His handicap is visible and obvious and the community, family and friends open their hearts to him and go out of their way to make his life better.*

*My other son, on the other hand, has been misunderstood and shunned by all. He is also terribly disabled...but his disability is not visible.*

*His grandparents, aunts, uncles and cousins all think that he's lazy, stupid, weird and naughty. They suggest that somehow, we have made some terrible mistake in his upbringing. When they call on the phone they ask how his brother is and talk to his brother but they never inquire about him. He upsets them. They also wish that he'd go away."*

—Excerpt from *Alliance for the Mentally Ill of Southern Arizona Newsletter*

**"Compassion follows understanding. It is therefore incumbent on us to understand as best we can. The burden of disease will then become lighter for all."** — Dr. E. Fuller Torrey



# HOW SCHIZOPHRENIA AFFECTS FAMILIES

*"The typical family of a mentally ill person is often in chaos. Parents look frantically for answers that often can't be found; siblings flee. Hope turns to despair, and some families are destroyed no matter how hard they try to survive."*

— Parents of a teen with schizophrenia

When parents learn their child has schizophrenia, they experience a range of strong emotions. They are usually shocked, sad, angry, confused, and dismayed. Some have described their reactions as follows:

- Sorrow (*"We feel like we've lost our child".*)
- Anxiety (*"We're afraid to leave him alone or hurt his feelings."*)
- Fear (*"Will the ill person harm himself or others?"*)
- Shame and guilt (*"Are we to blame? What will people think?"*)
- Feelings of isolation (*"No one can understand."*)
- Bitterness (*"Why did this happen to us?"*)
- Ambivalence toward the afflicted person (*"We love him very much, but when his illness causes him to be cruel, we also wish he'd go away."*)
- Anger and jealousy (*"Siblings resent the attention given to the ill family member."*)
- Depression (*"We can't even talk without crying."*)
- Total denial of the illness (*"This can't happen in our family."*)
- Denial of the severity of the illness (*"This is only a phase that will pass".*)
- Blaming each other (*"If you had been a better parent..."*)
- Inability to think or talk about anything but the illness (*"All our lives were bent around the problem."*)
- Marital discord (*"Our relationship became cold. I felt dead inside."*)
- Divorce (*"It tore our family apart."*)
- Preoccupation with "moving away" (*"Maybe if we lived somewhere else, things would be better."*)
- Sleeplessness (*"I've aged double time in the last seven years."*)
- Weight loss (*"We've been through the mill, and it shows in our health."*)
- Withdrawal from social activities (*"We don't attend family get-togethers."*)
- Excessive searching for possible explanations (*"Was it something we did?"*)
- Increased use of alcohol or tranquilizers (*"Our evening drink turned into three or four."*)
- Concern for the future (*"What's going to happen after we're gone? Who will take care of our child?"*)

**“A SISTER’S NEED” BY MARGARET MOORMAN**

*New York Times*, September 11, 1988

“My sister Sally is mentally ill. Now 47, she was first hospitalized almost 30 years ago, during her senior year in boarding school. Labelled schizophrenic then, she is now diagnosed as having bipolar—or manic-depressive—illness. Generally speaking, schizophrenia causes thought disorders and bipolar illness causes mood disorders. When Sally has been manic, she has given away possessions, become obsessed with elaborate projects, stopped eating and finally, suffered from delusions.

Sally has not worked for pay since 1980, when she was forced to retire from the part-time position she held as a government clerk. For almost two years after losing her job, she lived in various apartments, halfway houses and rented rooms. In 1982, our mother brought her home.

I missed most of the crises of Sally’s 20’s and 30’s. At first, being eight years younger, I was just not old enough to understand or even to pay much attention. As a teenager, I tried to ignore Sally because she was different, and I was afraid of being different myself. I went away to college and after graduating, I moved to Seattle—about as far as one can get from home in Arlington. I kept in touch by phone, but visited infrequently.

It isn’t unusual for someone with a chronically mentally ill sibling to try to run away from family tensions. It was only by physically removing myself that I felt I could survive. I was abetted in my escape by my mother, who loved for me to be happy and was, I know, relieved to have one independent child. Unfortunately, like many escapees, I had mixed feelings about it, including guilt and dread.

I once thought that when my mother died I would rather kill myself than have to take care of Sally as she did. It seemed clear: either I would go back home to monitor Sally, or I would fail my sister utterly and be unable to live with myself. It was just a choice of which way to give up my life...”

**“NEVER become a moth around the flame of self-blame. It can destroy your chance of coping, forever. It can destroy you...”**

**— Dr. Ken Alexander, *14 Principles for the Relatives***

# HOW FAMILIES CAN HELP

## 1. LEARN TO RECOGNIZE SYMPTOMS

When odd behaviour is experienced or observed, it makes good sense to seek advice from a doctor. An acute episode may happen suddenly, or symptoms may develop over a period of time. The following symptoms are important:

- Marked change in personality
- A constant feeling of being watched
- Difficulty controlling one's thoughts
- Hearing voices or sounds others don't hear
- Increasing withdrawal from social contacts
- Seeing people or things that others don't see
- Difficulties with language—words do not make sense
- Sudden excesses, such as extreme religiosity
- Irrational, angry, or fearful responses to loved ones
- Sleeplessness and agitation

These symptoms, even in combination, may not be evidence of schizophrenia. They could be the result of injury, drug use, or extreme emotional distress (a death in the family, for example.) The crucial factor is *the ability to turn off the imagination*.

## 2. GET PROPER MEDICAL HELP

- **TAKE THE INITIATIVE. IF SYMPTOMS OF SCHIZOPHRENIA ARE OCCURRING, ASK YOUR DOCTOR FOR AN ASSESSMENT OR REFERRAL.** Family members are usually the first to notice symptoms and suggest medical help. Remember, if the ill person accepts hallucinations and delusions as reality, they may resist treatment.

- **BE PERSISTENT. FIND A DOCTOR WHO IS FAMILIAR WITH SCHIZOPHRENIA.** The assessment and treatment of schizophrenia should be done by people who are well-qualified. Choose a physician who has an interest in the illness, who is competent and has empathy with patients *and their families*. Remember—if you lack confidence in a physician or psychiatrist, you always have the right to seek a second opinion.

- **ASSIST THE DOCTOR/PSYCHIATRIST.** Patients with schizophrenia may not be able to volunteer much information during an assessment. Talk to the doctor yourself, or write a letter describing your concerns. Be specific. Be persistent. The information you supply can help the physician towards more accurate assessment and treatment.
- **OTHER SOURCES OF ASSESSMENT AND TREATMENT:** The Ministry of Health is the government department responsible for Mental Health Services in British Columbia. Assessment and treatment are available through regional Mental Health centres throughout the province. Check your phone book, or *call the BC Schizophrenia Society* to find the one nearest you.

## TIPS FOR FIRST CONTACT!

- Rehearse before you call. State what you need clearly and briefly.
- Make a note of the names of the people you talk to, along with the date and approximate time.
- If you cannot get the help or information you need, ask to speak to a case manager, supervisor, or the person in charge.
- If you cannot immediately reach the doctor or case manager, ask when you may expect a return call, or when the person will be free for you to call back.

### 3. MAKE THE MOST OF TREATMENT

There may be exchanges between doctor and patient that the patient feels are of a highly personal nature and wants to keep confidential. However, ***family members need information related to care and treatment.*** You should be able to discuss the following with the doctor:

- Signs and symptoms of the illness
- Expected course of the illness
- Treatment strategies
- Signs of possible relapse
- Other related information

Provide plenty of support and loving care. Help the person accept their illness. Try to show by your attitude and behaviour that there is hope, that the disease can be managed, and that life can still be satisfying and productive.

Help the person with schizophrenia maintain a record of information on:

- Symptoms that have appeared
- All medications, including dosages
- Effects of various types of treatment

### 4. RECOGNIZE SIGNS OF RELAPSE

Family and friends should be familiar with signs of “relapse”—where the person may suffer a period of deterioration due to a flare up of symptoms. It helps to know that relapse signs often recur for an individual. These vary from person to person, but the most common signs are:

- Increased withdrawal from activities
- Deterioration of basic personal care.

You should also know that:

- Stress and tension make symptoms worse
- Symptoms often diminish as the person gets older.

### 5. MANAGING FROM DAY TO DAY

Ensure that medical treatment continues after hospitalization. This means *taking medication* and *going for follow-up treatment*.

Provide a structured and predictable environment. Recovering patients have problems with sensory overload. To reduce stress, keep routines simple, and allow the person time alone each day. Try to plan non-stressful, low-key regular daily activities. Keep "big events" to a minimum.

**BE CONSISTENT.** Caregivers should agree on a plan of action and follow it. If you are predictable in the way you handle recurring concerns, you can help reduce confusion and stress for the person who is ill. Set limits on how much abnormal behaviour is acceptable, and consistently apply the consequences.

**MAINTAIN PEACE AND CALM AT HOME.** Thought disorder is a great problem for most people with schizophrenia. It generally helps to keep voice levels down. When the person is participating in discussions, try to speak one at a time, and at a reasonably moderate pace. Shorter sentences also help. Above all, avoid arguing about delusions (false beliefs).

**BE POSITIVE AND SUPPORTIVE.** Being positive instead of critical helps the person more in the long run. People with schizophrenia need frequent encouragement, since self-esteem is often very fragile. Encourage all positive efforts. Be sure to express appreciation for a job even half-done, because the illness undermines a person's *confidence, initiative, patience, and memory*.

**HELP THE ILL PERSON SET REALISTIC GOALS.** People with schizophrenia need lots of encouragement to regain some of their former skills and interests. They may also want to try new things, but need to work up to them gradually. If someone is nagging, or goals are unreasonable, the resulting stress can worsen symptoms.

**GRADUALLY INCREASE INDEPENDENCE.** As participation in tasks and activities increases, so should independence. Some relearning is usually necessary for skills such as handling money, cooking, and housekeeping. If outside employment is too difficult, try to help the person plan to use their time constructively.

**LEARN TO COPE WITH STRESS TOGETHER.** Anticipate the ups and downs of life and try to prepare accordingly. The person who is ill needs to learn to deal with stress in a socially acceptable manner. Your positive role-modelling can help. Sometimes just recognizing and talking in advance about something that might be stressful can help.

**ENCOURAGE YOUR RELATIVE TO TRY SOMETHING NEW.** Offer help in selecting an activity. If requested, go along the first time for moral support.

## 6. LOOK AFTER YOURSELF AND OTHER FAMILY MEMBERS

**BE GOOD TO YOURSELF.** SELF-CARE is very important. This is crucial to each individual, and ultimately helps the functioning of the entire family. Let go of guilt and shame. Remember—poor parenting or poor communication did not cause this illness. Nor is it the result of any personal failure by the individual.

**VALUE YOUR OWN PRIVACY.** Keep up your friendships and outside interests. Try to lead as orderly a life as possible.

**DON'T NEGLECT OTHER FAMILY MEMBERS.** Brothers and sisters often secretly share the same guilt and fear as their parents. Or they may worry that they will become ill too. When neglected, they may feel jealous or resentful of the ill person. Siblings of people with schizophrenia need special attention and support to deal with these issues.

### **GET SUPPORT... LEARN FROM OTHERS' EXPERIENCE**

Check out resources in your community. If you are the parent, spouse, sibling, or child of someone with schizophrenia—it helps to know *you are not alone*.

Support groups are great for sharing experiences with others. You can also learn a lot and get helpful advice about how to deal with your local mental health services from those who have “been there.”

Knowing where to go and who to see—and how to avoid wasting precious time and energy—can make a world of difference when trying to find good treatment. Continuity of care is also very important. Ultimately, this involves ongoing medical, financial, housing, and social support systems. All these services are critical for recovery—yet they tend to be poorly coordinated. Support groups can help you put the pieces of this puzzle together. They can also advocate for better, more integrated services for people with schizophrenia and their families.

- ✓ Call the Mental Health clinic in your community — Ask about their family education program
- ✓ Look for family support organizations in your region
- ✓ Join the BC Schizophrenia Society. Call 604-270-7841 or 1-888-888-0029 for information on getting involved.



# FINDING GOOD TREATMENT

*"Schizophrenia is not the dreaded disease it was years ago. Now, with early diagnosis and treatment, regular follow-up, proper residential, vocational and rehabilitative support systems, the long-term outcome is quite favourable."*

— Psychiatric professional

*"Health professionals talk about how things could be or should be. The way things are is that many crucial support systems do not exist. As a result, schizophrenia can become a living hell for the sufferer and his family."*— Parent of a young man with schizophrenia

## “HOW CAN WE FIND PROPER MEDICAL CARE?”

Many families are shocked when they try to find a doctor for a relative with schizophrenia. Very few doctors seem to know much about schizophrenia, or even have any interest in it. There is no easy solution to this problem.

First of all—schizophrenia can resemble other diseases, so assessment and treatment *must* involve well-qualified professionals. Furthermore, since schizophrenia is a chronic illness, continuing medical care and prescription medications are needed. As prominent psychiatrist Fuller Torrey says, *“There is no avoiding the doctor-finding issue.”*

One way to start is to ask a medical professional who they would go to if someone in their own family had schizophrenia. Another way is by talking to other families who have an ill relative. They can often put you in touch with the best resources in your community, and save you a lot of time and frustration. *Sharing this type of information is one of the most valuable assets of your local Schizophrenia Society, and an important reason to join the organization.*

Besides finding someone who is medically competent, you need to find someone who is interested in the disease, has empathy with its sufferers, and is good at working with other members of the treatment team.



As Dr. Torrey points out:

*“Psychologists, psychiatric nurses, social workers, case managers, rehab specialists and others are all part of the therapeutic process. Doctors who are reluctant to work as team members are not good doctors for treating schizophrenia, no matter how skilled they may be in psychopharmacology.”*

Specifically, you need to find a doctor who:

- Believes schizophrenia is a brain disease
- Takes a detailed history
- Screens for problems that may be related to other possible illnesses
- Is knowledgeable about antipsychotic medications
- Follows up thoroughly
- Adjusts the course of treatment when necessary
- Reviews medications regularly
- Is interested in the patient's entire welfare, and makes appropriate referrals for aftercare, housing, social support, and financial aid
- Explains clearly what is going on
- *Involves the family in the treatment process*

To get enough information to make informed decisions, you will have to ask the doctor some direct questions: *What do you think causes schizophrenia? What has been your experience with the newer medications like risperidone, clozapine or olanzapine? How important is psychotherapy in treating schizophrenia? What about rehabilitation?*

If you are uneasy or lack confidence in the medical advice you receive, remember—you do have the right to another opinion from other doctors, even if from another city.

## “HOW IS SCHIZOPHRENIA TREATED?”

Although schizophrenia is not yet a "curable" disease, it *is* treatable. The proper treatment of schizophrenia includes the following:

**MEDICATION** — Most patients with schizophrenia have to take medication regularly to keep their illness under control. It is not possible to know in advance which medication will work best for an individual. Many medication adjustments may be required. This period of trial and error can be very difficult for everyone involved. Some medications have unpleasant side effects—dry mouth, drowsiness, stiffness, restlessness, etc.

**EDUCATION** — Patients and their families must learn all they can about schizophrenia. *They also need to be directly included in planning the treatment program.* Families should find out what assistance is available in the community—including day programs, organized recreation, self-help groups, work and education programs. It is most important for the patient and the family to accept the fact of the illness, and begin to learn how best to manage it.

**FAMILY COUNSELLING** — Since the patient and the family are often under enormous emotional strain, it may be advantageous to obtain counselling from professionals who understand the illness.

**HOSPITALIZATION AND REGULAR FOLLOW-UP** — If someone becomes acutely ill with schizophrenia, they will probably require hospitalization. This allows the patient to be observed, assessed, diagnosed, and started on medication under the supervision of trained staff. The purpose of hospitalization is proper medical care and protection. Once the illness is stabilized and the patient is discharged from hospital, *regular follow-up care* will reduce the chances of relapse.

**RESIDENTIAL AND REHABILITATION PROGRAMS** — Social skills training, along with residential, recreational, and vocational opportunities tailored to people with mental illness are very important. Used as part of the treatment plan, they can result in improved outcomes for even the most severely disabled people.

**SELF-HELP GROUPS** — Families can be very effective in supporting each other and in advocating for much-needed research, public education, and community and hospital-based programs. People with schizophrenia can also provide education and advocacy in these areas, as well as offering peer support to other individuals with mental illness.

**NUTRITION, REST AND EXERCISE** — Recovery from schizophrenia, as with any illness, takes patience. It is aided by a well-balanced diet, adequate sleep, and regular exercise. But the illness and side effects from medication sometimes interfere with proper eating, sleeping, and exercise. There may be lack of appetite, motivation, and a withdrawal from normal daily activities. Someone who is ill may forget to eat, or become suspicious about food, so supervision of daily routines may be required. If you are a family member or friend who is trying to help—*be patient*. Above all, don't take seeming carelessness or disinterest personally.

**ELECTROCONVULSIVE THERAPY (ECT)** — ECT is *not* normally used for patients with schizophrenia unless they are also suffering from extreme depression, are suicidal for long periods, and do not respond to antidepressant medication or other treatments.

# AGEING PARENTS, FUTURE PLANS

Encouraging an adult child to live away from home is a loving positive act, not a rejection. For someone with schizophrenia, this can be the first step towards independent living...

Living apart can also mean that the *quality* of family time spent together actually improves—resulting in less stress for everyone. No one can be on duty 24 hours a day (doing what three shifts of professionals do) and also be emotionally involved, without suffering physical and psychological damage.

Remember that schizophrenia does NOT interfere with a person's intelligence. If parents continue to “give their all” and ultimately burn out, they are of little use to *anyone*. In addition, the person who is ill ends up unfairly carrying a terrible burden of guilt for such sacrifices.

- Families must meet their own needs *now* for the benefit of the ill person in the long run. It is beneficial for *all* family members to develop their own outside social life—even if it is not large.
- It's always hard to “let go”, but doing so GRADUALLY can be the beginning of a positive move towards adult independence.
- Moving away from home is ultimately necessary for all human beings. No matter how loving and capable, parents will become less and less able to provide support as they grow older—and no one lives forever. Thus, it is usually best to establish independent living arrangements at a reasonable age.
- It's a good idea for someone who is ill to try living away from home on an experimental basis at first. If it doesn't work out, they can return home for a shorter period of time, and then try again. Everyone should be clear that this is just a beginning. That way, if things don't happen to work out immediately—no one feels the whole exercise was a failure.

# “I’M A TEACHER – HOW CAN I HELP?”

*"Professionals ... must help the ill person set realistic goals. I would entreat them not to be devastated by our illness and transmit this hopeless attitude to us. I urge them never to lose hope; for we will not strive if we believe the effort is futile."*

— Esso Leete, patient who has had schizophrenia for 20 years

## 1. ARM YOURSELF WITH THE FACTS

Schizophrenia is a very common illness (1 in 100.) It strikes in the mid to late teens and early twenties. You need to be aware that:

- *Early intervention and effective new medications lead to better medical outcomes for the individual*
- The earlier someone with schizophrenia is diagnosed and stabilized on treatment, the better the long-term prognosis for their illness
- Teen suicide is a growing problem—and teens with schizophrenia have a *50% risk of attempted suicide*
- In rare instances, children as young as five can develop schizophrenia.

## 2. BRING THE ILLNESS INTO THE OPEN

- Discuss schizophrenia in class in a matter-of-fact way. This helps dispel some of the myths and reduces discrimination and injustice associated with the illness.
- Provide information on precipitating factors, such as drug abuse.

## 3. BE ALERT TO EARLY WARNING SIGNS OF SCHIZOPHRENIA

Young people are sometimes apathetic, have mood swings, or experience declines in athletic or academic performance. But if these things persist, you should talk to the family and help the student receive an assessment.

### ***“REACHING OUT”*** — AN EXCELLENT TEACHING RESOURCE

- STUDENTS LEARN ABOUT THE BRAIN AND MENTAL ILLNESS
- STRESSES THE IMPORTANCE OF GETTING HELP EARLY
- AVAILABLE THROUGH THE BC SCHIZOPHRENIA SOCIETY

#### 4. IF YOU HAVE A STUDENT WITH SCHIZOPHRENIA IN YOUR CLASS:

- Learn as much as you can about the illness so you can understand the very real difficulties the person is experiencing
- Reduce stress by going slowly when introducing new situations
- Check the student's cognitive assessment, and help set realistic goals for academic achievement and extra-curricular activities
- Establish regular meetings with the family for feedback on health and progress. It may be necessary to modify objectives, curriculum content, teaching methodology, evaluation formats, etc.
- Encourage other students to be kind and to extend their friendship. Some may wish to act as peer supports when illness occurs and some catch-up help is needed.

#### 5. TEACHERS AND COUNSELLORS CAN ALSO RAISE AWARENESS BY:

- Holding information sessions about mental illness at parents' meetings and at student assemblies
- Setting up displays for special occasions (such as Mental Illness Awareness Week) in the school library or counselling office
- Ordering up-to-date resource materials for your library, finding current information on the internet, and discarding out-of-date literature.

## "PARTNERSHIP" EDUCATION

The BC Schizophrenia Society's PARTNERSHIP EDUCATION program is an invaluable aid for helping students understand the nature and prevalence of chronic and severe mental illness. PARTNERSHIP EDUCATION brings together three individuals who work as a team to present the facts about schizophrenia. One person has a psychiatric diagnosis, one is a family member, and one is a mental health professional. They come into your classroom together, each to tell their personal story.

PARTNERSHIP EDUCATION presentations elicit immediate and thoughtful class participation. Mental illness is demystified. Students' questions are answered directly by people with first-hand knowledge and experience.

The PARTNERSHIP EDUCATION program helps fight ignorance, prejudice, dusty old Hollywood myths, and hurtful stereotypes. It also provides vital facts about the physical nature of mental illness, and helps many individual students whose family members suffer from mental illness.

# PROMISING DEVELOPMENTS

*“Schizophrenia is a most complex and puzzling disease. And now, after 100 years of enigmatic puzzling, I believe we may be on the threshold of an entire new era of understanding.”*

— Dr. Peter Liddle, Jack Bell Chair in Schizophrenia Research  
Head, Schizophrenia Division, University of British Columbia, 2001

According to Dr. Liddle, the more we understand the higher functions of the brain and its interactions, the more we can explore, in a meaningful way, how the mind and the brain work together.

In other words, we can finally go beyond *notions* and provide rational bases for why certain treatments work. The reason for this is the development of tools and techniques that now allow us to systematically explore patterns of brain activity.

- EEG's (*Electroencephalograms*) show that electrical impulses used by the brain to send messages to other parts of the body are abnormal in many people with schizophrenia.
- CT (*Computerized Tomography*) and MRI (*Magnetic Resonance Imaging*) scans show that brain structures of some people with schizophrenia are different from people without the illness. One important anomaly in schizophrenia, for example, is enlarged ventricles — the small spaces in the brain through which cerebral spinal fluid circulates.
- PET (*Positron Emission Tomography*) uses a radioactive compound to help measure blood flow in different parts of the brain. It is possible to see, for instance, how the brain activity in people with schizophrenia differs from that of people who are not ill—and to identify the specific areas where such differences occur.

*Partly because of the development of these new tools, treatment for schizophrenia has greatly improved—and will continue to be influenced by new research discoveries.*

# MEDICATION UPDATE

*“There is no way at present to predict who will respond best to which medication.”*  
— E. Fuller Torrey

Trying to understand a bewildering array of medication terminology can be frustrating. It's always a good idea to learn at least some of the technical “lingo” that mental health professionals use. A user-friendly reference book, such as Fuller Torrey's *Surviving Schizophrenia*, is a great help.

Generally, medications for treating psychotic symptoms of schizophrenia are referred to as *antipsychotics*, or sometimes *neuroleptics*.

## “STANDARD” ANTIPSYCHOTICS

Until recently, doctors referred to antipsychotic medications as *neuroleptics* because of their tendency to cause neurological side effects. Medications that have been around for a number of years are now called “standard” antipsychotics. Examples of standard antipsychotics include *Thorazine*, *Mellaril*, *Modecate*, *Proloxin*, *Navane*, *Stelazine* and *Haldol*.

### SIDE EFFECTS (EPS)

Side effects can be a major problem with standard antipsychotic medications. These neurological side effects are called “**extrapyramidal symptoms**” (**EPS** for short). Specific examples of EPS include akinesia (slowed movement), akathisia (restless limbs), and tardive dyskinesia (permanent, irreversible movement disorders.)

## “ATYPICAL” ANTIPSYCHOTICS

The newer antipsychotic drugs are called “atypical” antipsychotics. Atypical medications are being used more and more frequently. They are called “atypical” because they:

- do not have the same chemical profiles as standard medications;
- seem to work in a different way than standard medications; and
- cause fewer side effects than standard medications, helping patients to stabilize

At the moment, there are four atypical antipsychotics available in BC—*risperidone* (Risperdal), *clozapine* (Clozaril), *olanzapine* (Zyprexa) and the newest medication, *quetiapine* (Seroquel).

### RISPERIDONE (BRAND NAME - RISPERDAL)

The use of risperidone to date has been encouraging. While not effective for everyone, it is now generally accepted as first-line treatment for newly-diagnosed patients. Side effects—which often discourage people from taking their medication—are usually minimal at regular maintenance dosages.

### CLOZAPINE (CLOZARIL)

Clozapine has been acclaimed because about one-third of patients with treatment-resistant (called *refractory*) schizophrenia who do not respond to other medications show at least some improvement on clozapine. It is also recommended for people who are showing signs of tardive dyskinesia, since it rarely causes or worsens this condition.

The major drawback of clozapine is the slight risk (1%) that it will cause white blood cells to decrease, thereby lowering the person's resistance to infection. People taking clozapine must have their blood counts monitored very regularly (once a week or every two weeks.)

#### OLANZAPINE (ZYPREXA)

Reports to date on the use of olanzapine are very encouraging, showing high rates of efficacy and a low side effect profile. All of this makes it ideal as a first-line treatment. Unfortunately, it is still not available for this purpose on the BC *Pharmacare* formulary — a situation which we hope will change in the near future. The BC Schizophrenia Society continues to encourage government to make all new medications equally available to all patients.

#### QUETIAPINE (SEROQUEL)

Quetiapine, the most recently-approved medication, also shows high rates of efficacy and low side effects, making it also a good choice for first-line treatment. It is now accessible to all patients in BC through the province's *Pharmacare* formulary.

#### OTHER NEW ANTIPSYCHOTICS

Several new antipsychotic medications are being tested or waiting for approval. Most of the new drugs are “atypicals”— meaning they fall into the same category as risperidone, olanzapine, quetiapine, and clozapine.

### REASONS FOR SWITCHING MEDICATION

The most common reasons for switching from a standard to an “atypical” antipsychotic are:

- Persistent positive symptoms (hallucinations, delusions, etc.) despite taking medication regularly
- Persistent negative symptoms (blunted emotions, social withdrawal, etc.) despite medication
- Severe discomfort from side effects, little or no relief from the usual side effect medications
- Tardive dyskinesia

In most cases, switching medications from standard to “atypical” can be done at any time. The person who is ill should take lots of time to think about it and talk it over with family, friends, and their treatment team. People should also be aware that atypical antipsychotics may have side effects of their own, such as weight gain and sexual dysfunction. It's true that the newer medications tend to produce fewer side effects—but they may still cause some. *Patients taking atypical antipsychotics must continue to be monitored for side effects.*

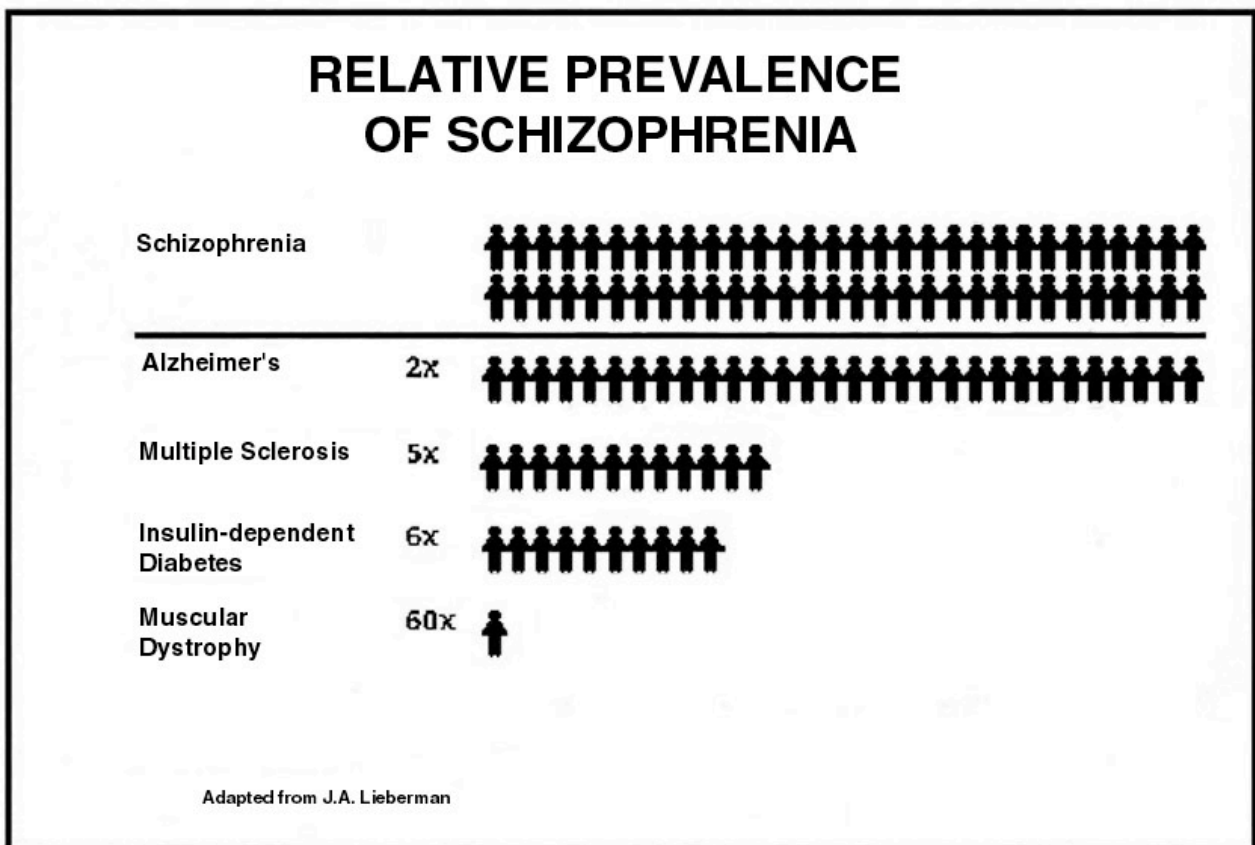


# RELATIVE PREVALENCE OF SCHIZOPHRENIA

People with schizophrenia occupy more hospital beds than those with any other illness. One out of every twelve hospital beds in Canada is occupied by someone with schizophrenia.

As shown in the following table, schizophrenia is:

- ☀ Twice as prevalent as Alzheimer's disease
- ☀ 5 times as prevalent as multiple sclerosis
- ☀ 6 times as prevalent as diabetes, and
- ☀ 60 times more prevalent than muscular dystrophy.



Given the high costs —\$6.85 billion annually—and the high prevalence of the disease, much more funding for schizophrenia research should be allocated than is currently the case.

# RESEARCH BENEFITS

*“Perhaps the one factor which holds back psychiatric research more than any other is the social stigma that remains attached to mental disease.”*

— Dr. Henry Friesen, Past President - Medical Research Council of Canada

For many years, there was a lack of advocates presenting the facts about schizophrenia. That was one reason funding for schizophrenia research lagged quite far behind funding for other illnesses.

In his 1995 address to the Canadian Psychiatric Association, Medical Research Council President Dr. Henry Friesen praised the initiative shown by Nobel Laureate in Chemistry, the late Dr. Michael Smith. Dr. Smith generously donated half his Nobel Prize money towards the promotion of research training in schizophrenia:

*“To me, it was an inspirational act for Dr. Smith to associate himself with the research field, thereby raising the profile of schizophrenia—and promoting the notion of schizophrenia as a disease worthy of academic investigation and support.”*

## UNDERSTANDING BRINGS PROGRESS, HOPE

The goal of research is to eventually find a cure. Meanwhile, there are a good many “trickle-down” benefits to funding research.

Research, by its very nature, requires researchers to be up-to-date on everything of importance in their field. Researchers become mentors — they teach at universities, thus informing many young students about the latest in schizophrenia research and ultimately enticing some of them to continue in this field. At the same time, researchers help train doctors, psychiatrists and other health professionals to familiarize themselves with the most up-to-date treatment methods.

This body of knowledge spreads, not only to students and health professionals, but also to family organizations, educators and counsellors, governments and other support agencies — and eventually to the general public. Finally, the old myths about schizophrenia and other serious mental illnesses begin to fade and disappear, because real knowledge is being disseminated.

# MYTHS AND MISCONCEPTIONS

*“The worst thing about having schizophrenia is the isolation and the loneliness...”*  
— Dr. Phillip Long, psychiatrist

SOCIETY’S KNOWLEDGE OF MAJOR MENTAL ILLNESS LAGS WAY BEHIND THE FACTS. People with schizophrenia are victims of this general ignorance. In truth, they are victims twice over. First, they have an incurable, chronic brain disease that they must learn to live with as best they can. Next, because of their illness, they are discriminated against.

## WHAT IS THE BIGGEST PROBLEM FOR PEOPLE WITH MENTAL ILLNESS?

Most say it’s that other people do not accept them. Once patients have learned to manage their symptoms, they still have to face overwhelming difficulties with friends, housing, and work. They feel the sting of discrimination in almost everything they do. Old friends and even some family members are uncomfortable in their presence. It is easy to become isolated, cut off from society.

No wonder so many people with schizophrenia feel they don't belong; that they are “different”; that they are not respected or valued. *Widespread, hurtful ignorance leads to the terrible social isolation and loneliness that can become the most disabling feature of the illness.*

## WHY DO PEOPLE FIND MENTAL ILLNESS SO UNACCEPTABLE?

### FEAR OF VIOLENCE

Some people fear that individuals who suffer from mental illness are violent. In reality, people with a mental illness are usually anxious, fearful of others, and passive. The myth of danger is largely based on inaccurate and outdated cultural myths that portrayed people with mental illness as aggressive and violent. Problems with aggression can arise for a small minority of people who (i) are not taking medication; (ii) habitually abuse drugs and/or alcohol; and (iii) have a history of violence towards themselves or others. Otherwise, statistics show that people with mental illness are *less* violent than the general population, and tend rather to be the *victims* of violence.

## FEAR OF CRIMINAL INTENTIONS

People with psychiatric disorders are no more likely to commit crimes than the general population. However, if mental illness is left untreated and allowed to become progressively more severe, people who are acutely ill may inadvertently end up in jail. Another common confusion has to do with the nature of involuntary hospitalization, which is sometimes necessary to treat and safeguard someone who is very ill. *Hospitalization for medical treatment to regain one's health should never be falsely equated with incarceration in the criminal justice system.*

## FEAR OF THE UNKNOWN

People often fear what they do not understand. And when they don't understand, they often make wild guesses. Some cultures believe mental illness is the work of evil spirits, while others believe it is caused by bad blood, poisons, or lack of moral integrity. As modern civilizations understand more about the brain and the biological causes of brain disease, these harmful beliefs are quickly fading.

## AVERSION TO ILLNESS

After hundreds of years, "mental illness" has finally been identified as a disease just like epilepsy, Parkinsonism, or diabetes. But this change from the realm of the witch doctor to the medical doctor doesn't erase all negative feeling—only lessens it somewhat. The public still has a very strong aversion to hospitals, disease, and doctors.

**BETTER PUBLIC HEALTH EDUCATION PROGRAMS CAN HELP  
ERADICATE OLD MYTHS AND MISUNDERSTANDINGS.**

**GIVING PATIENTS THE NECESSARY SUPPORTS TO LIVE WITH  
DIGNITY IN THEIR OWN COMMUNITIES ALSO HELPS OVERCOME  
PREJUDICE AGAINST PEOPLE WITH MENTAL ILLNESS.**

# FAQ'S: "FREQUENTLY ASKED QUESTIONS"

*"Schizophrenia affects young people in the prime of their lives. It can be a major set-back in their plans and hopes for the future."*

— Dr. Ian Falloon

## 1. Q. WHAT ARE MY CHANCES OF DEVELOPING SCHIZOPHRENIA?

**A.** There is no way of knowing exactly who will get schizophrenia. However, about 1 in 100 people worldwide will develop the illness. Since schizophrenia tends to run in families, your chances may be higher if someone in your family has the disease. For example, it is estimated that:

- If one of your parents or a brother or sister is ill, the risk factor is about 10%
- If both your parents are ill, your chances are about 40%
- If a nonidentical twin is ill, your chances are 10-15%
- If an identical twin is ill, your chances are 35-50%
- If you are a grandchild, niece, nephew, aunt or uncle of someone who is ill, your chances are about 3%.
- Schizophrenia does not discriminate between the sexes. Young men and women are equally at risk for developing the illness.

## 2. Q. CAN CHILDREN DEVELOP SCHIZOPHRENIA?

**A.** Yes. In rare instances, children as young as five have been diagnosed with the illness. They are often described as being different from other children from an early age. Most people with schizophrenia, however, do not show recognizable symptoms until adolescence or young adulthood.

## 3. Q. HOW CAN I TELL IF I HAVE SCHIZOPHRENIA BEFORE IT BECOMES SERIOUS?

**A.** If you think you have symptoms of schizophrenia, you should talk to a doctor who has experience treating the illness. This is very important because *early diagnosis and treatment means a better long-term prognosis.*

## 4. Q. IF I HAVE SCHIZOPHRENIA, SHOULD I HAVE CHILDREN?

**A.** Schizophrenia tends to run in families, but that doesn't necessarily mean you should not marry and have children. Since everyone wants to be a good parent and provider for their family, you will need to ask yourself some important questions:

- Is my illness sufficiently under control? If I have to work full-time in order to support my children, can I do it?
- Will the stress and expense of raising children cause me to become ill again?

- What if my children inherit the illness? (The chance of each of your children developing schizophrenia is 1 in 10. If your partner also has schizophrenia, the chance of each child developing the illness increases to 2 in 5.)
- Is my partner a capable person who can help provide a secure and peaceful home environment for a child?

As you see, these decisions are very personal—and will depend entirely on you and your own particular situation.

5. Q. MY FRIEND HAS SCHIZOPHRENIA. HOW CAN I HELP?

A. We all need friends who stick with us through good times and bad. People with schizophrenia will value your friendship. They are often discriminated against by those who are ignorant about the illness. Many people with schizophrenia have high IQ's. Unless someone is experiencing symptoms of their illness, there will be nothing especially unusual about their behaviour.

You can be a real friend by trying to understand the illness and by educating others when the opportunity arises. Let them know the facts. Also, if you can, try to get to know your friend's family. For example, the family might help you understand how your friend may sometimes be overwhelmed and discouraged because of the chronic and persistent nature of the illness. Once you know this, you can help by just being supportive and encouraging during these rough times.

If you're planning social activities with your friend, it helps to remember:

- People with schizophrenia need to take their medication on time, keep a fairly regular schedule, and get enough sleep and rest.
- Because there may be some disabling periods of thought disorder, term papers and studying for exams can't be left until the last minute
- Using street drugs is very dangerous because they often trigger a return of symptoms (a relapse).

6. Q. DO STREET DRUGS EVER CAUSE SCHIZOPHRENIA?

A. No. Street drugs do not actually *cause* schizophrenia. Since some people who take street drugs may show schizophrenia-like symptoms, people who have schizophrenia are sometimes accused of being "high" on drugs. A person suffering from psychotic symptoms may also become involved in substance abuse, where having such symptoms in the setting of *getting high* is seen as normal.

7. Q. DOES A HISTORY OF MENTAL ILLNESS OR SCHIZOPHRENIA IN MY FAMILY MEAN THERE IS A GREATER RISK OF HAVING A PSYCHOTIC EPISODE IF I USE STREET DRUGS?

A. Evidence indicates that if someone has a predisposing factor, drugs like cannabis (marijuana, hash, hash oil, etc.) may trigger an episode of schizophrenia. This may or may not clear up when use of the drug stops. If your family has a history of mental illness, extra caution might be wise.

Street drugs can be risky for anyone, but for people with schizophrenia, they are particularly dangerous. As mentioned earlier, certain drugs can cause relapses and make the illness worse.

All street drugs should be avoided, including:

- PCP (angel dust)
- cocaine/crack
- LSD
- amphetamines
- marijuana and other cannabis products
- ecstasy

8. Q. WHAT ABOUT ALCOHOL, COFFEE AND TOBACCO?

A. *Moderate* use of alcohol (one or two glasses of wine or beer) doesn't seem to trigger psychotic symptoms, but heavy use certainly does.

People on medication should be especially careful. Since alcohol is a depressant, it can be life-threatening when combined with tranquilizers such as clonazepam (Rivotril), lorazepam (Ativan), diazepam (Valium), alprazolam (Xanax), etc. Each multiplies the effect of the other—often with disastrous results.

THE FOLLOWING MAY ALSO TRIGGER SYMPTOMS OF SCHIZOPHRENIA:

- large amounts of nicotine and/or caffeine
- cold medications and nasal decongestants.



# BC SCHIZOPHRENIA SOCIETY (BCSS)

*“We’d like to change your mind”*

## PROVINCIAL OFFICE

201 - 6011 Westminster Hwy  
Richmond, B.C. V7C 4V4  
(604) 270-7841 or 1-888-888-0029  
bcss.prov@telus.net www.bcss.org

MISSION STATEMENT: *“To alleviate the suffering caused by schizophrenia”*

## OBJECTIVES:

- SUPPORT** Support groups throughout the province for families and friends of people with schizophrenia and other serious mental illness
- EDUCATION** Partnership and family education programs for increasing public awareness and understanding about serious mental illness
- ADVOCACY** Advocating for improved legislation and better services for people with schizophrenia and their families
- RESEARCH** Active fundraising for research into the causes and treatment of schizophrenia

## BCSS BRANCHES

The BC Schizophrenia Society has branches across the province. To reach the branch nearest you, check your local phone listings or contact us at (604) 270-7841 or toll free at 1-888-888-0029.

Abbotsford  
Bulkley Valley  
Burnaby  
Campbell River  
Chilliwack  
Coquitlam  
Courtenay  
Cowichan Valley  
Cranbrook  
Fort St. John  
Kamloops

Kelowna  
Langley  
Mackenzie  
Nakusp  
Nanaimo  
Nelson  
New Westminster  
North Shore  
Parksville/Qualicum  
Penticton  
Powell River

Prince George  
Prince Rupert  
Quesnel  
Sunshine Coast  
Surrey/White Rock  
Terrace  
Trail/Castlegar  
Vancouver/Richmond  
Vernon  
Victoria  
Williams Lake



# BRITISH COLUMBIA SCHIZOPHRENIA SOCIETY (BCSS)

## BCSS Family Coordinators

BCSS has Family Coordinators in most regions of British Columbia to help coordinate services, support, and education for family members of people suffering from:

- First episode psychosis
- Schizophrenia
- Bipolar disorder
- Depression
- Other serious brain disorders

## BCSS Program Coordinators

BCSS Program Coordinators deliver the following BCSS programs:

- KIDS IN CONTROL — Information, education and support for children eight to thirteen years of age who have a parent with a mental illness
- RESPITE PROGRAM — Respite services for family members who are primary caregivers to people with serious mental illness
- BRIDGES — A 14-week course focused on education and recovery for people with mental illness.

BCSS Coordinators can be reached by contacting the BC Schizophrenia Society Provincial Office. 604-270-7841 BC toll free 1-888-888-0029

Or check out our website at [www.bcss.org](http://www.bcss.org)

# Help for Families Outside British Columbia

## **ALBERTA**

Schizophrenia Society of Alberta  
(780) 429-7880 1-800-661-4644  
[www.schizophrenia.ab.ca](http://www.schizophrenia.ab.ca)

## **MANITOBA**

Manitoba Schizophrenia Society  
(204) 786-1616 1-800-263-5545  
[www.mss.mb.ca](http://www.mss.mb.ca)

## **NEW BRUNSWICK**

Schizophrenia Society of New Brunswick  
(506) 622-1595  
[www.schizophrenia.ca/ssnb](http://www.schizophrenia.ca/ssnb)

## **NEWFOUNDLAND& LABRADOR**

Schizophrenia Society of Newfoundland  
and Labrador Tel: (709) 745-7765  
[www.ssnl.org](http://www.ssnl.org)

## **NOVA SCOTIA**

Schizophrenia Society of Nova Scotia  
Tel: (902) 465-2601 1-800-465-2601  
[www.ssns.ca](http://www.ssns.ca)

## **ONTARIO**

Schizophrenia Society of Ontario  
(416) 449-6830 1-800-449-6367  
[www.schizophrenia.on.ca](http://www.schizophrenia.on.ca)

## **PRINCE EDWARD ISLAND**

Schizophrenia Society of P.E.I.  
(902) 566-5573  
[info@schizophreniapei.pe.ca](mailto:info@schizophreniapei.pe.ca)

## **SASKATCHEWAN**

Schizophrenia Society of Saskatchewan  
(306) 584-2620  
[www.schizophrenia.sk.ca](http://www.schizophrenia.sk.ca)

## **QUEBEC**

Assn. Québécoise de la Schizophrénie  
Tel: (514) 251-4000 1-800-323-0474  
[www.schizophrenie.qc.ca](http://www.schizophrenie.qc.ca)

AMI Quebec (*Anglophone Association*)  
Tel: (514) 486-1448  
[www.amiquebec.org](http://www.amiquebec.org)

## **SCHIZOPHRENIA SOCIETY OF CANADA**

50 Acadia Ave., Ste 205,  
Markham, Ontario, M3C 2E9  
(416) 415-2007 1-888-772-4673  
[www.schizophrenia.ca](http://www.schizophrenia.ca)

## **WORLD FELLOWSHIP FOR SCHIZOPHRENIA AND ALLIED DISORDERS**

124 Merton Street, Suite 507  
Toronto, Ontario M4S 2Z2  
T: (416) 961-2855 F: (416) 961-1948  
[info@world-schizophrenia.org](mailto:info@world-schizophrenia.org)  
[www.world-schizophrenia.org](http://www.world-schizophrenia.org)

## **IN THE UNITED STATES - NAMI**

(National Alliance for the Mentally Ill)  
NAMI's toll-free helpline provides referrals  
to local support groups and information  
services. 1-800-950-NAMI  
[www.nami.org](http://www.nami.org)

## **IN EUROPE - EUFAMI**

(European Federation of Family  
Associations of People with Mental  
Illness)  
Headquartered in Belgium.  
Affiliated with 41 family support  
organizations throughout Europe.  
[www.eufami.org](http://www.eufami.org)

# RESOURCE MATERIALS ON SCHIZOPHRENIA

VISIT OUR WEBSITE: <http://www.bcass.org>

The British Columbia Schizophrenia Society (BCSS) has up-to-date pamphlets, books, and videos. For more information on resource materials, contact us:  
(604) 270-7841 BC Toll Free 1-888-888-0029 [bcass.prov@telus.net](mailto:bcass.prov@telus.net)

## SUGGESTED READING

The following books are highly recommended, and should be available through your local library or bookstore.

Adamec, Christine. *How to Live with a Mentally Ill Person*. John Wiley & Sons, 1996

Amador, Xavier. *I am not Sick, I Don't Need Help!* Vida Press, Peconic, NY 2000

Keefe, Richard & Harvey, D. *Understanding Schizophrenia: A Guide to the New Research on Causes and Treatment*. The Free Press, Macmillan, Toronto, 1994

Lafond, Virginia. *Grieving Mental Illness: A Guide for Patients and Their Caregivers*. University of Toronto Press, 1994

Marsh, D. and Dickens, R. *How to Cope with Mental Illness in Your Family*. Tarcher/ Putnam, NY, 1998

Mueser, Kim T. & Gingerich, Susan. *Coping With Schizophrenia: A Guide for Families*. New Harbinger, Oakland, CA, 1994

\*Torrey, E. Fuller. *Surviving Schizophrenia*. 4th edition. HarperCollins Perennial (paperback) New York, 2001

Woolis, Rebecca. *When Someone You Love Has a Mental Illness: A Handbook for Family, Friends, and Caregivers*. Putnam's Sons, New York, 1992.

## EARLY PSYCHOSIS EDUCATION RESOURCES

### "REACHING OUT: THE IMPORTANCE OF EARLY INTERVENTION"

The sooner a person with psychosis receives proper medical treatment, the better the outcome is likely to be for their illness. Young people, parents, teachers, family physicians and others need to know that early intervention and treatment of psychosis *can* make a vital difference.

All BCSS *Early Psychosis* education resources are designed to heighten awareness of the early signs and symptoms of psychosis and the need for appropriate and timely medical assessment.

SEE "RESOURCE/VIDEO ORDER FORM" AT END OF BOOKLET

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\* Particularly recommended as good starting point for family members, consumers, and service providers. It is clearly written and has an excellent reference section.

# GLOSSARY: UNDERSTANDING THE LANGUAGE OF MENTAL ILLNESS

People with mental illness, their relatives, teachers and friends may hear medical professionals using words they are not familiar with. Here's a short glossary of some of the most commonly used terms...

**AFFECTIVE DISORDERS OR MOOD DISORDERS** — Mental illness characterized by greatly exaggerated emotional reactions and mood swings from high elation to deep depression. Commonly used terms are *bipolar disorder* (formerly called *manic depression*) and *depression*—although some people experience only mania and others only depression. These extreme mood changes are unrelated to changes in the person's environment.

**COGNITIVE DEFICITS, COGNITIVE TESTING** — People with schizophrenia often have specific deficits in brain functioning. The most common are deficits in “executive” functioning — short-term memory, organizing, planning, prioritizing, decision-making. Reliable, objective testing is now available to pinpoint deficit areas. This helps to identify problems for the individual and put resources in place to assist with tasks of day-to-day living. Cognitive testing for people with schizophrenia also enables health authorities do more effective service planning for people with schizophrenia.

**DELUSION** — A fixed belief that has no basis in reality. People suffering from this type of thought disorder are often convinced they are famous, being persecuted, or are capable of extraordinary accomplishments.

**DIAGNOSIS** — Classification of a disease by studying its signs and symptoms. Schizophrenia is one of many possible diagnostic categories used in psychiatry.

**ELECTROCONVULSIVE THERAPY (ECT)** — Used primarily for patients suffering from extreme depression for long periods, who are suicidal and who do not respond to medication or to changes in circumstances.

**HALLUCINATION** — An abnormal experience in perception. Seeing, hearing, smelling, tasting or feeling things that are not there.

**INVOLUNTARY ADMISSION** — The process of entering a hospital is called *admission*. *Voluntary admission* means the patient requests treatment, and is free to leave the hospital whenever he or she wishes. People who are very ill may be admitted to a mental health facility against their will, or *involuntarily*. There are two ways this can occur:

- Under medical admission certificate or renewal certificate
- Under special court order when the person has been charged or convicted with a criminal offence. In this case, they may be held in a forensic facility.

In British Columbia, before someone can be admitted involuntarily, a physician must certify that the person is:

- Suffering from a mental disorder and requiring care, protection and medical treatment in hospital
- Unable to fully understand and make an informed decision regarding treatment, care and supervision
- Likely to cause harm to self or others, or to suffer substantial mental or physical deterioration if not hospitalized.

**MEDICATIONS** — Medication is usually prescribed in either pill or injectable form. Several different types of medications may be used, depending on the diagnosis. Ask your doctor or pharmacist to explain the names, dosages, and functions of all medications, and to separate generic names from brand names in order to reduce confusion.

1) **ANTIPSYCHOTICS:** *Brand Names*—Modecate, Largactil, Stelazine, Haldol, Fluanxol, Pipartil, Clozaril, Risperdal, Zyprexa, Seroquel. *Generic Names*—fluphenazine, chlorpromazine, trifluoperazine, haloperidol, flupenthixol, pipotiazine, clozapine, risperidone, olanzapine, quetiapine. These reduce agitation, diminish hallucinations and destructive behaviour, and may bring about some correction of other thought disorders. Side effects include changes in the central nervous system affecting speech and movement, and reactions affecting the blood, skin, liver and eyes. Periodic monitoring of blood and liver functions is advisable.

2) **ANTIDEPRESSANTS:** Relatively slow-acting drugs—but if no improvement is experienced after three weeks, they may not be effective at all. Some side effects may occur, but these are not as severe as side effects of antipsychotics.

3) **MOOD NORMALIZERS:** e.g., Lithium, Carbamazepine, Valproate. Used in manic and manic-depressive states to help stabilize wide mood swings that are part of the condition. Regular blood checks are necessary to ensure proper medication levels. There may be some side effects such as thirst and burning sensations.

4) **TRANQUILIZERS:** Valium, Librium, Ativan, Xanax, Rivotril. Generally referred to as *benzodiazepines*. These medications can help calm agitation and anxiety.

5) **SIDE EFFECT MEDICATIONS:** Also called *anticholinergics*. *Brand Names*—Cogentin, Kemadrin. *Generic Names*—benzotropine, procyclidine.

**MENTAL HEALTH** — A balanced relationship between (a) the individual; (b) his or her immediate social group — family, friends, peers, colleagues — and (c) the larger political, economic and social environment. “Mental health” includes psychological and social well-being, a sense of harmony, and environmental mastery.

**MENTAL ILLNESS/MENTAL DISORDER**— Physical abnormality and/or biochemical irregularity in the brain causing substantial disorder of thought, mood, perception, orientation, or memory—grossly impairing judgement, behaviour, capacity to reason, or ability to meet the ordinary demands of life.

**MENTAL HEALTH ACT** — Provincial legislation for the medical care and protection of people who have a mental illness. The *Mental Health Act* also ensures the rights of patients who are involuntarily admitted to hospital, and describes advocacy and review procedures.

**PARANOIA** — A tendency toward unwarranted suspicions of people and situations. People with paranoia may think others are ridiculing them or plotting against them. Paranoia falls within the category of delusional thinking, which is often based on hallucinatory experience.

**PSYCHOSIS** — Hallucinations, delusions, and loss of contact with reality.

**SCHIZOPHRENIA** — Severe and sometimes chronic brain disease. Common symptoms include personality change, withdrawal, isolation, severe thought and language difficulties, hallucinations, delusions, and bizarre behaviours.

**SIDE EFFECTS** — Side effects occur when there is drug reaction that goes beyond or is unrelated to the drug's therapeutic effect. Some side effects are tolerable, but some are so disturbing that the medication must be stopped. Less severe side effects include dry mouth, restlessness, stiffness, and constipation. More severe side effects include blurred vision, excess salivation, involuntary body movements, nervousness, sleeplessness, tardive dyskinesia, and blood disorders.

Some drugs are available to control side effects. Learning to recognize side effects is important because they are sometimes confused with symptoms of the illness. A doctor, pharmacist, or mental health professional can explain the difference between symptoms of the illness and side effects due to medication.

**TARDIVE DYSKINESIA** — Neurological syndrome thought to be caused by long-term use of older antipsychotics. Characterized by repetitive, involuntary, movements. May include grimacing, tongue protrusion, lip smacking, puckering and pursing, and rapid eye blinking. Rapid movements of the arms, legs, and trunk may also occur. Involuntary movements of the fingers may appear as though the patient is playing an invisible guitar or piano.

**TREATMENT** — Refers to remedies or therapies designed to cure an illness or relieve symptoms. In psychiatry, treatment is often a combination of medication, education about the illness, cognitive testing and cognitive therapy, counselling (advice), and recommended activities. Together, these make up the individual's *treatment plan*.

## *Get the Facts:*

### THE MENTAL HEALTH ACT = THE RIGHT TO TREATMENT AND CARE

- Due to a chemical imbalance that affects the brain, many people who become acutely ill with schizophrenia are unable to recognize their illness. That means they are unable to voluntarily exercise their right to available treatment—because of the very nature of their disability. *The British Columbia Mental Health Act is about the care and protection of our citizens who are victims of such illnesses.*
- Early treatment and stabilization on medication greatly improves the prognosis for people with schizophrenia. Many people can now—with *timely and adequate treatment and support*—live satisfactory lives in the community.
- Involuntary hospitalization of people who are too ill to care for themselves should *never* be falsely equated with incarceration in the criminal justice system. To do so not only adds to outmoded stigma and prejudice about people with mental illness—it also deprives them of their *fundamental right to proper medical treatment and care*. Unfortunately, such confusion is common. As a result, there are many people with severe and chronic brain disorders like schizophrenia who have “fallen through the cracks” of the system—neglected and abandoned because they are not well enough to seek treatment for themselves.
- It is a scandal that people who are severely ill and for whom effective treatment is available are literally dying in our streets from neglect. Furthermore, suicide rates among this population are alarmingly high. For example, 50% of all people with schizophrenia will attempt to commit suicide—and 10 to 13% will succeed.
- If we do not advocate for the essential right to treatment under the *Mental Health Act*, this situation will worsen.

“The purpose of the BC Mental Health Act is to help people who are suffering receive the medical treatment and care they need and deserve so that they can regain their health.”

# **RESOURCE/VIDEO ORDER FORM**

## **“Reaching Out: The Importance of Early Treatment”**

*(Order prices include all taxes, shipping & handling)*

- **“Reaching Out” Complete Curriculum Resource Kit**

Includes 22-minute video and DVD, with 80-page instructor’s guide

*To order, please contact the BCSS Provincial Office*

- **“Reaching Out” 22-minute Video or DVD only**

| <i>Cost</i> |   | <i>Number</i> |   |          |
|-------------|---|---------------|---|----------|
| \$ 20.00    | x | _____         | = | \$ _____ |

- **“Reaching Out” 12-minute Video or DVD, Physicians’ Version**

| <i>Cost</i> |   | <i>Number</i> |   |          |
|-------------|---|---------------|---|----------|
| \$ 20.00    | x | _____         | = | \$ _____ |

- **Booklet - Early Psychosis: What Families and Friends Need to Know**

| <i>Cost</i> |   | <i>Number</i> |   |          |
|-------------|---|---------------|---|----------|
| \$ 3.50     | x | _____         | = | \$ _____ |

**TOTAL COST:** \$ \_\_\_\_\_

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Signature \_\_\_\_\_

**Cheques payable to BC Schizophrenia Society. Mail order form to:**

**BCSS Provincial Office, #201- 6011 Westminister Highway, Richmond, BC V7C 4V4  
(Canada) FAX Orders to: (604) 270-9861**

**ORDER BY PHONE 604-270-7841 or 1-888-888-0029**

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