

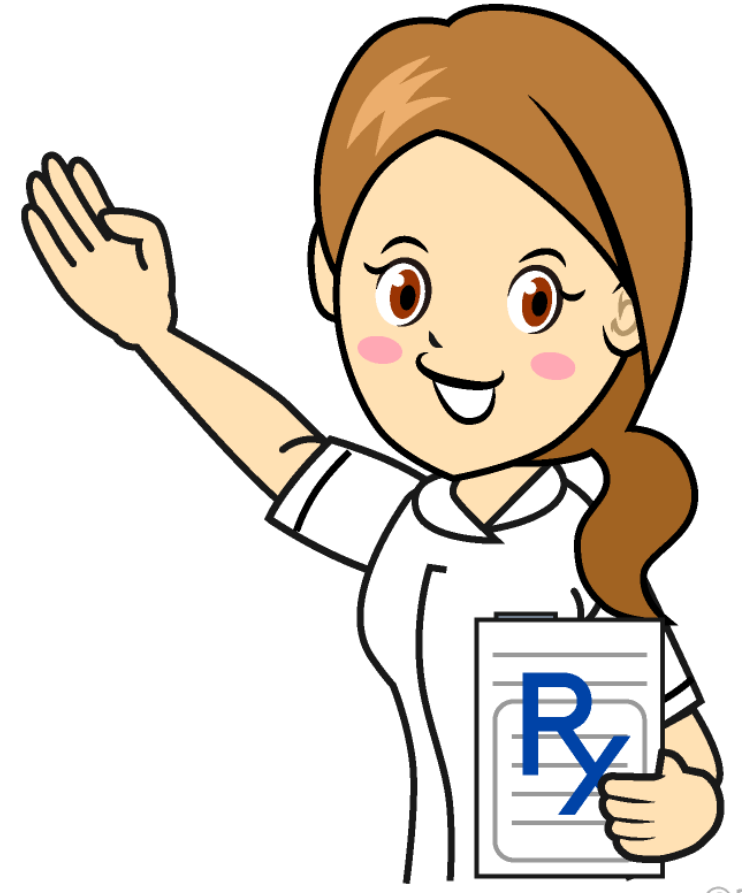


Pharmacists: Key players in patient education about depression

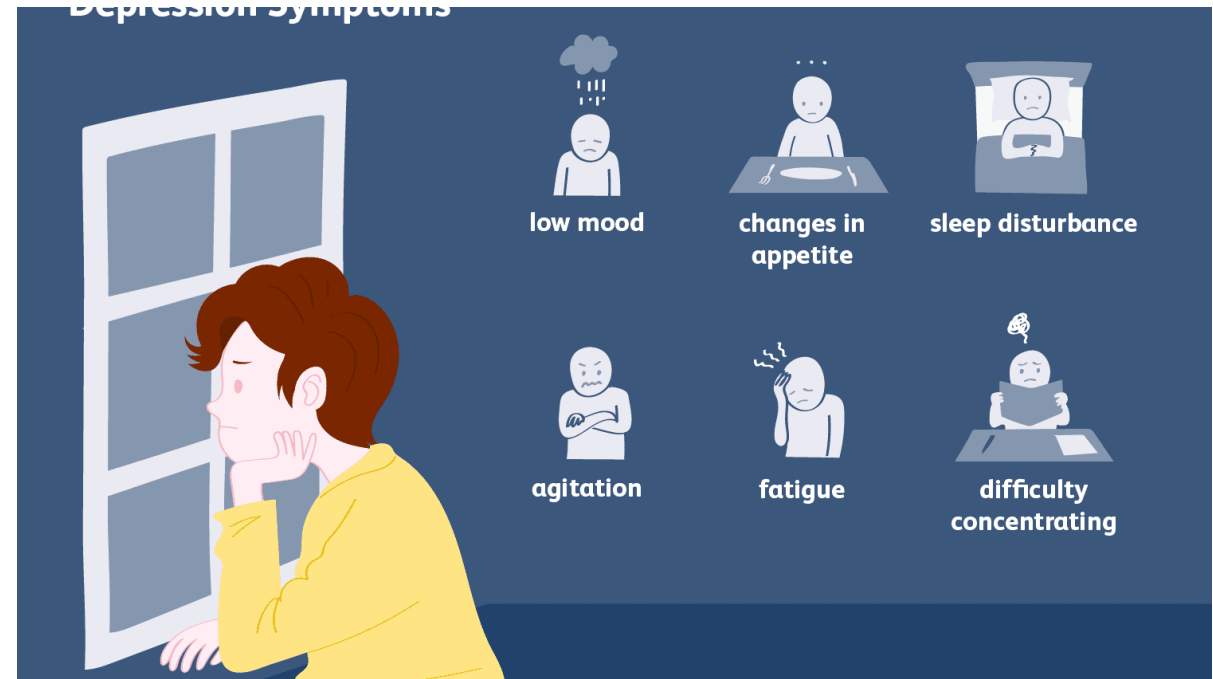
Hiba Ghareeb

Main responsibilities of the pharmacists

- Pharmaceutical Care Network Europe (PCNE) preformulated the definition “Pharmaceutical Care is **the pharmacist’s contribution to the care of individuals in order to optimize medicines use and improve health outcomes**”.
 1. to ensure that all medications are appropriate, effective, and safe for a particular patient.
 2. to identify, solve, and prevent various drug-related problems.



- ▶ Depression is a common psychiatric illness, which is associated with several specific symptoms
- ▶ Among all mental disorders, depression is related to the highest risk of suicide, followed by schizophrenia and alcohol abuse
- ▶ Depression, at its worst, may result in suicidal tendencies or suicide and that suicide is responsible for an estimated 800,000 deaths worldwide each year





300 million people worldwide experience depression (WHO, 2017)

Depressions Statistics Everyone Should Know

3.1 million people between ages 12 and 17 in the U.S. have experienced at least one major depressive episode in the past year



8.7% of women have depression
5.3% of men have depression

Median age of onset: 32.5 years old



Suicide is the second leading cause of death among people ages 10-34

Resources:

National Alliance on Mental Illness (NAMI)

Substance Abuse and Mental Health Services Administration (SAMHSA)
National Helpline: 1-800-662-4357

Nearly 50% of those diagnosed with depression also have an anxiety disorder

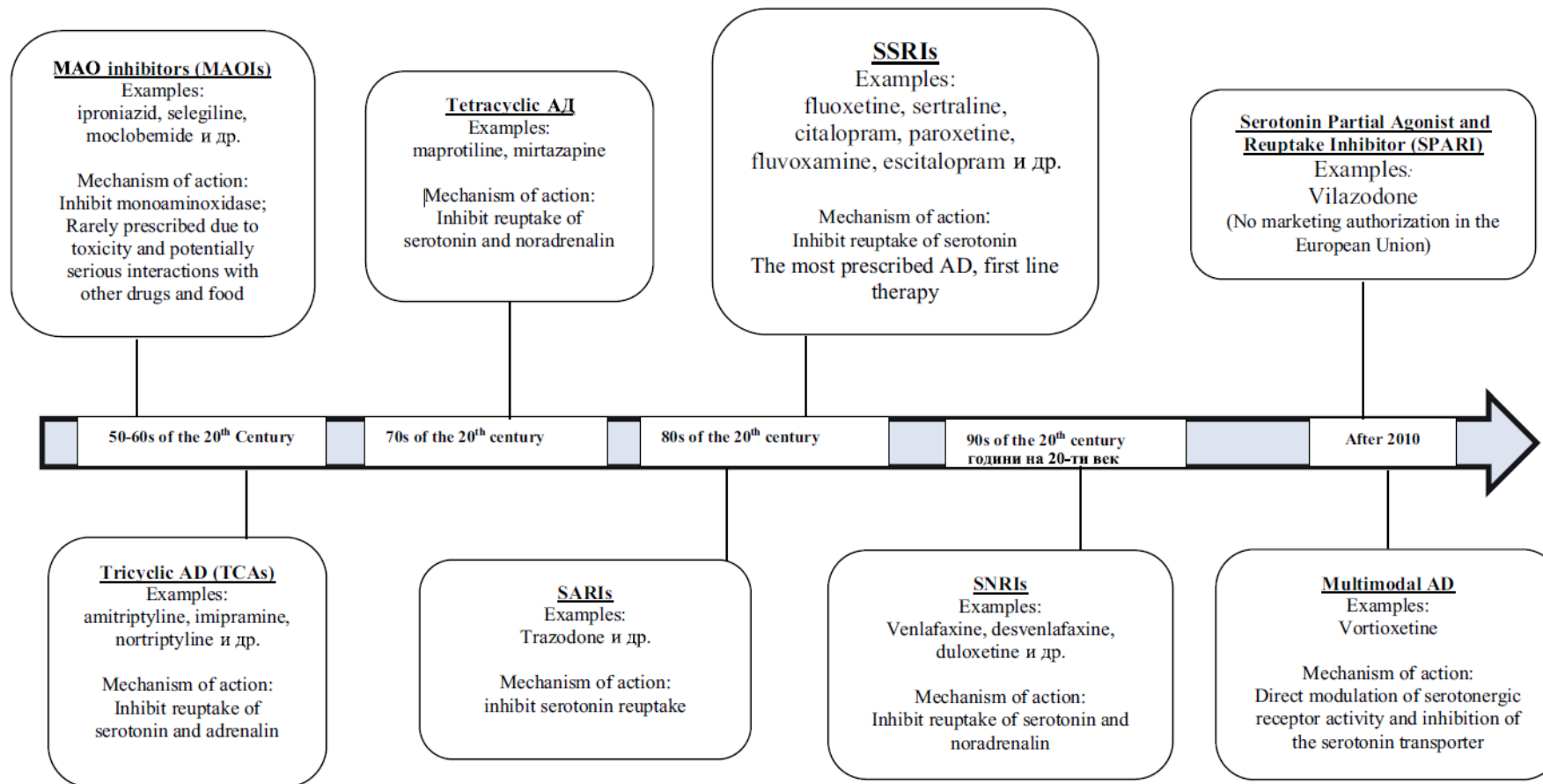


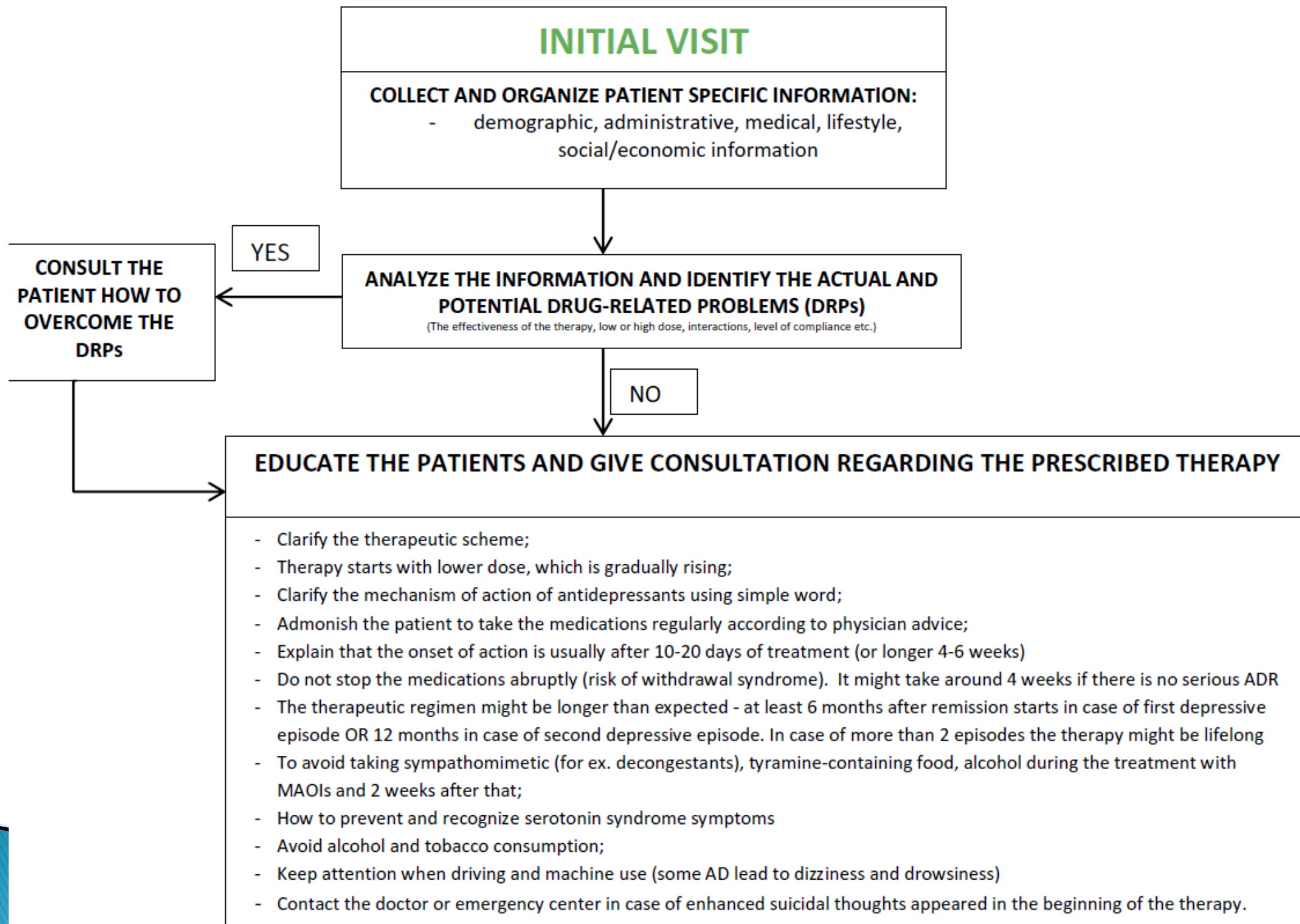
Depression is very treatable but 35% of adults receive none

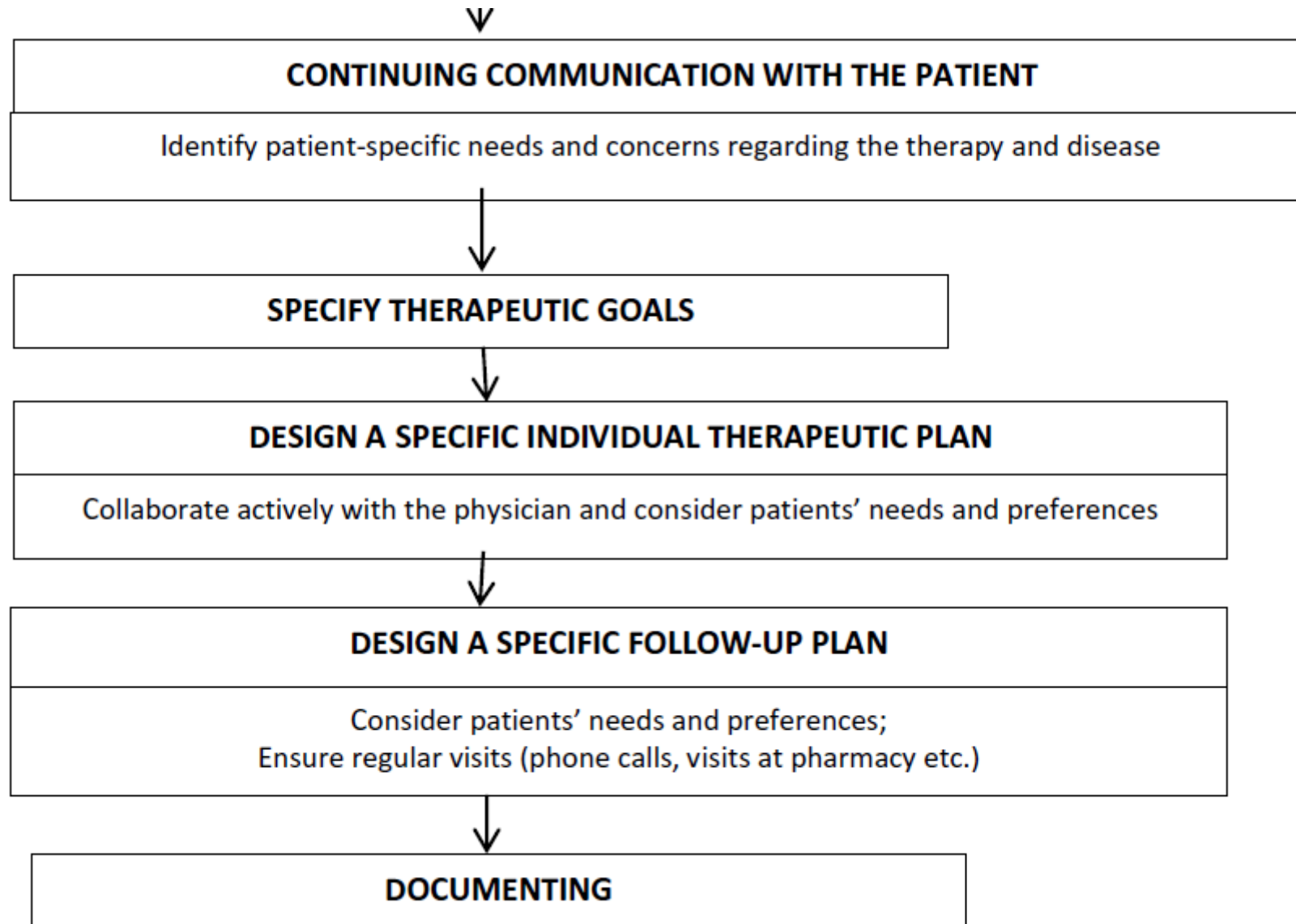


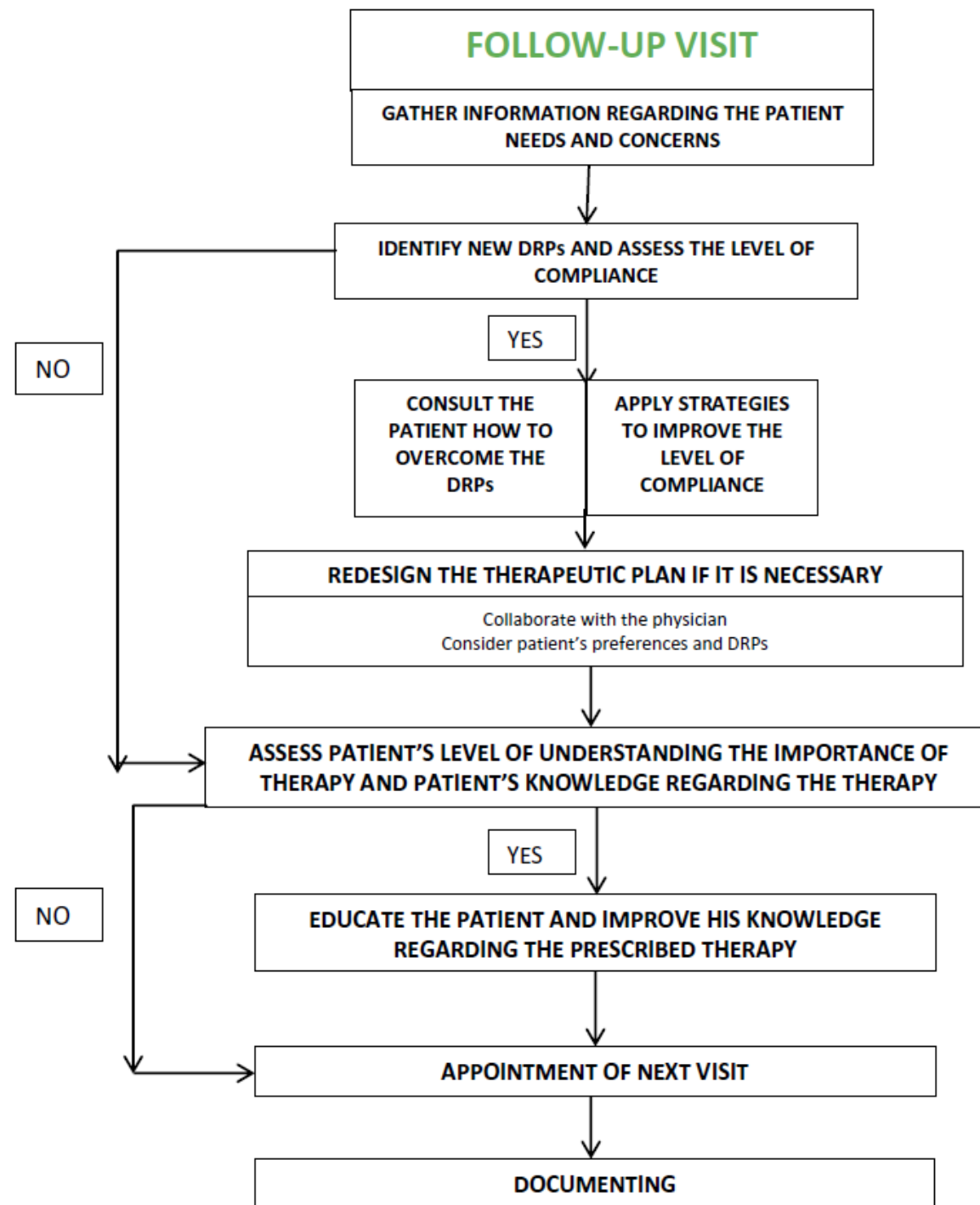
Pharmacotherapy principles for depression

- ▶ The goal of treatment is achieving **remission and full recovery of the patient's social functioning**









Identifying people struggling with their mental health

- ▶ Pharmacists are **well placed** to identify changes in behavior and early signs of mental health problems including anxiety, depression, post-traumatic stress disorder, and substance or alcohol abuse.
- ▶ **Patient Health Questionnaire-2 (PHQ-2) and PHQ-9 are the preferred screening tools in primary-care and community settings, as they are short, accurate, and simple to administer. These assessment tools are available online**
- ▶ Kondova et al identified that **70% of all patients** screened in a community pharmacy setting have positive results of PHQ-2 test, and **55% of them had indications of mild-to-moderate depression.**

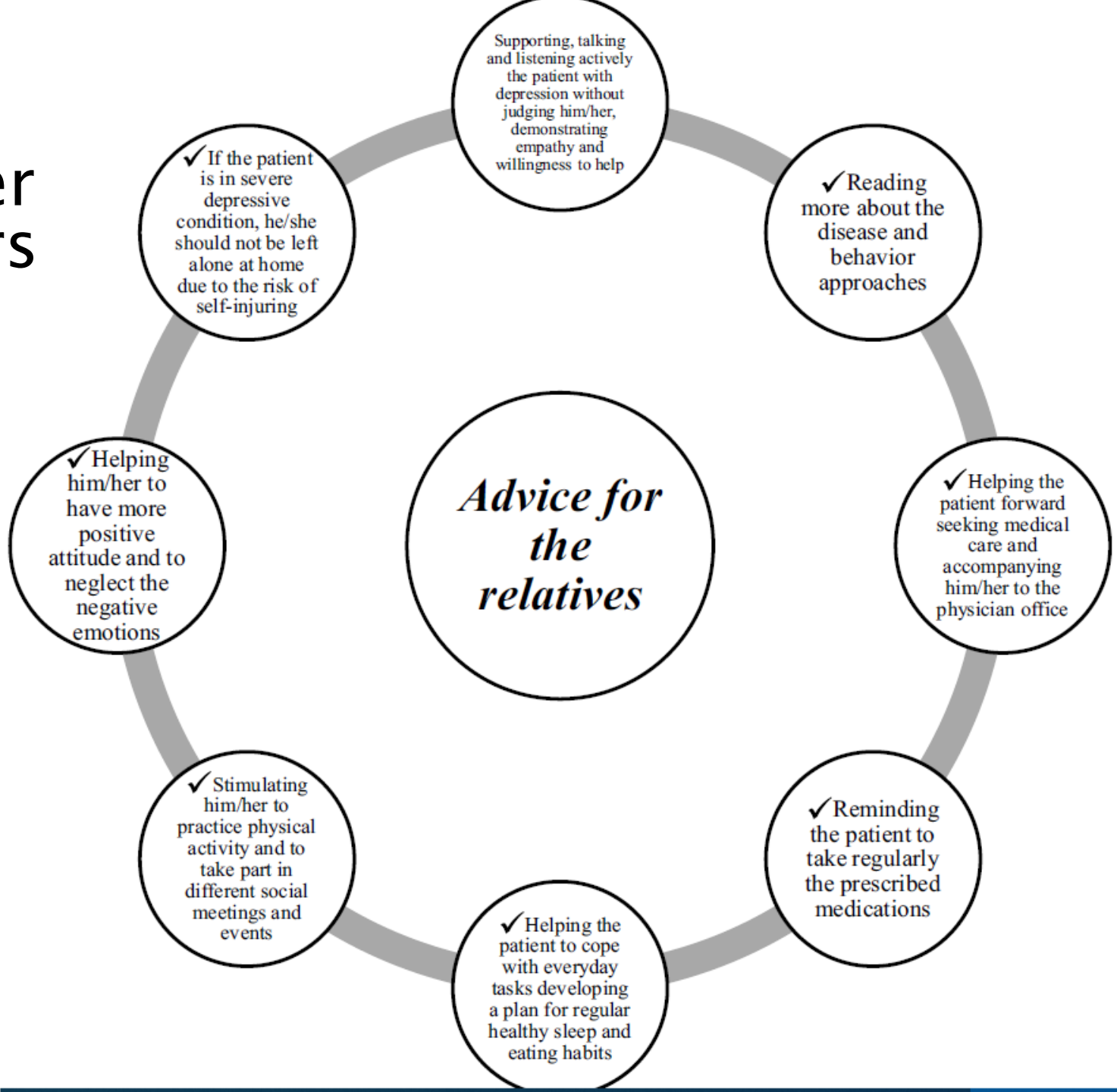
Communication with the Patients and Their Family Members / Caregivers

- ▶ Communication with patients with mental problems presents a challenge for every pharmacist.
- ▶ The pharmacist should play the **dominant role** during the conversation, **applying appropriate voice tone, using simple and short sentences** and body language without discussing several issues simultaneously – a **focus should be made on a specific problem** through a variety of technical and non-technical skills.
- ▶ The consulting pharmacist should pay attention to and adapt the discussion towards patient's difficulties related to **verbal speech and memorization**.
- ▶ **Avoiding confusing questions** and interrupting patients while he/she is speaking, listening actively, demonstrating empathy and using the most appropriate body language (eye contact, smile, understanding look, etc.)



Question	Purpose
What medications do you take in what dose and when do you take them?	<ul style="list-style-type: none"> • The purpose is to understand whether the patient understands the prescribed therapy and administers it properly
How long do you take these medications according to the current dosage regimen? When was the last time your therapy was changed?	<ul style="list-style-type: none"> • The purpose is to clarify the effectiveness and appropriateness of the therapeutic regimen
How do you feel after taking your medication(s)?	<ul style="list-style-type: none"> • The purpose is to clarify the effectiveness and appropriateness of the therapeutic regimen
Do you consider stopping abruptly the medications for depression? Do you think interrupting the therapy suddenly is appropriate?	<ul style="list-style-type: none"> • In this way the pharmacist can identify the level of patient's knowledge regarding the medications and therapeutic regimen
Do you consult with a pharmacist when buying OTC medicinal products?	<ul style="list-style-type: none"> • To identify timely drug-related problems
Would you like to ask some questions regarding the medications you take?	<ul style="list-style-type: none"> • To assess the level of knowledge and to stimulate the patient to be an active partner in the process
Have you ever had suicidal thoughts?	<ul style="list-style-type: none"> • To assess the severity of the disease
	<ul style="list-style-type: none"> • To assess the history of condition
	<ul style="list-style-type: none"> • To indicate worsening of the condition
Do you see your psychiatrist regularly?	<ul style="list-style-type: none"> • To identify the level of adherence to therapy
	<ul style="list-style-type: none"> • To identify the level of patient's involvement in the therapeutic process

Education of the Patient and His / Her Relatives / Caregivers



Non-Pharmacological Treatment

- ▶ Physical activity – 3-5 times per week, 20-30 minute nature walks, etc.; light therapy – in case of seasonal depressive disorders
- ▶ Music therapy; acupuncture
- ▶ Food supplements (omega 3 oils)
- ▶ Stress management practicing yoga, meditation; healthy eating and sleeping habits; cognitive bibliotherapy

Assuring Effective, Safe, and Appropriate Pharmacological Treatment

- ▶ Explanation of the therapeutic scheme, the mechanism of action of antidepressant (AD), avoiding complex medical words.
- ▶ Clarification that the onset of action of the prescribed AD is usually after 10–20 days (or longer: 4–6 weeks) and the therapy is continuous (2–6 months) depending on the severity of the disease.
- ▶ The initial dose is lower and it increases gradually.
- ▶ The patient must adhere to the therapeutic scheme as long as it is prescribed.
- ▶ The therapy must not be stopped suddenly – a period of 2–3 weeks is required.



- ▶ Even if the symptoms relieve the therapy must be continued and not stopped without the physician's recommendation due to the risk of withdrawal syndrome (irritability, headache, insomnia palpitations, sweating, and others lasting several days).
- ▶ Regular monitoring should be provided to every patient with depression in order for suicidal thoughts to be identified in a timely manner.
- ▶ Depressive symptoms are assessed every week or every other week. So, the pharmacist should remind the patient to consult with his/her physician regularly.

Identification and Prevention of Drug-Related Problems

- ▶ serious drug-related problems (DRPs) could be identified or **prevented**, and specific interventions for the prevention and overcoming of the revealed DRPs could be recommended

	Group of DRPs	Examples
Related to prescribing	Drug selection	Inappropriate drug; contraindications; duplication of drugs; too many drugs for one indication, etc.
	Drug form	Inappropriate drug form
	Dose selection	Dose too low or too high; wrong instructions for dosing, etc.
	Treatment duration	Too short or too long
Related to dispensing	Dispensing	No availability of the drug; no provision of the required information; wrong drug, wrong instructions, etc.
Related to drug use	Drug use process (administered by the health specialist or by the patient)	Inappropriate time dosing; patient abuses drug; takes too high or too low dose; wrong way of administration; inability to use the drug correctly, etc.

Medication (INN)	ADRs	Interactions
Amitriptyline	Arrhythmias, heart arrest, photo dermatitis, constipation, dryness in mouth, sexual dysfunctions	+Clonidine \leq hypertonic crisis; +MAO inhibitors \leq high blood pressure, hyperthermia, convulsion
Citalopram Escitalopram Fluoxetine Fluvoxamine Paroxetine Sertraline	Nausea, vomiting, insomnia, dryness in mouth, headache, hypotension, tremor, etc.	+MAO inhib.; +serotonergic medications (triptans) \leq SSS +H. perforatum \leq increased risk of ADRs; +NSAIDs; p.o. anticoagulants \leq risk of bleeding
Venlafaxine	Dryness in mouth, headache, sweating, nervousness, drowsiness, dizziness, etc.	+serotonergic medications (triptans, SSRIs) \leq SSS
Tianeptine	Tachycardia, insomnia, headache, dryness in mouth, myalgia, insomnia, etc.	+MAO inhibitors \leq collapse, hyperthermia, convulsions

Notes: Some ADRs like nausea, diarrhea, and anxiety appear only in the beginning of the therapy. A consultation with a physician is required in cases of lack of improvement. Tricyclic antidepressants (TCA) are not indicated in cases of recent myocardial infarction. Dose adjustment or switch to another medication in the case of lack of effectiveness at a minimum 6 weeks is required.

Adverse Drug Reactions (ADRs)	Advice for Overcoming the ADRs
Dryness in mouth	Application of artificial saliva products, sugar free gum, vitamin c tablets (short-term use in order to prevent tooth erosion)
Antimuscarinic effects (blurred vision, sedation, confusion, etc.) caused by TCA	A strict monitoring in elderly patients as well as taking medications at bed time in order to prevent falls and fractures are recommended
Constipation	Advice for regular healthy eating habits: more fiber, liquids, warm water in the morning, abdominal massage, laxatives
Sedation	Taking the medications at bed time; otherwise – dose reduction
Nausea	Avoiding sweet, salty, or fatty food; taking the medicine after a meal, taking smaller portions of food during the day
Insomnia	Taking the medications in the morning
Sexual disturbances caused by SSRIs	Dose reduction or change therapy; inclusion of sildenafil at a pinch
Hypertension caused by venlafaxine	Blood pressure monitoring regularly; reduction of venlafaxine dosage; change the therapy
Tachycardia caused by TCA	Dose reduction or change the therapy
Weight gain	Dose reduction or change the therapy
Orthostatic hypotension	The patient should avoid standing up abruptly, reduce caffeine intake, drink more water, practice more physical exercise to strengthen the leg muscles
Headache	Dose reduction or change the therapy
Photosensitization caused by TCA, SSRIs, venlafaxine	Applying sun cream every 2 hours and avoiding sunbathing between 10 a.m. and 4 p.m.

Assuring Adherence and Assessment of Adherence Level

- ▶ Literature data shows that **56% of patients taking antidepressants do not adhere to the prescribed therapy** for different reasons such as patients' beliefs, side-effects, or cost.
- ▶ The patient should be **convinced that the disease is curable**, the therapy is based on the severity of the disease, and only strict adherence, psychotherapy provided by a specialist, and support of family and friends may lead to improvement and full recovery.

- ▶ Assessment of the level of adherence might be made during the regular patient's visits on the basis of the number of dispensed packages and the number of executed prescriptions, after a conversation with the patient regarding his attitude toward the therapy and the therapeutic plan.
- ▶ Studies concluded that the pharmacists' role is crucial for improving the level of adherence to antidepressants. A systematic review found that pharmacist interventions could **be effective in improving the adherence level to antidepressants by 15–27%.**

Conclusion

- ▶ Application of pharmaceutical care services for patients with depression is effective and leads to condition improvement, reduction of the side-effects, timely identification of and the overcoming of potential or actual DRPs and improvement of patients' quality-of-life.
- ▶ Collaboration between psychiatrists, pharmacists, and the active inclusion of the affected and their relatives in the therapy could optimize and improve the complex care for patients with depression and achieving the targeted therapeutic outcomes.



Thank you