**PLASMApheresis in Narcology**

**Plasmapheresis (PA) procedures are used in combined therapy of alcoholic delirium, especially of severe forms (professional and mussiting) and of forms complicated by somatic and neurological pathology.**

PA is used in order to:
- Normalize microcirculation and rheology of blood
- Remove from blood mediummolecular toxins (products of metabolism of alcohol, excessive amount of neuromediators, ferments, bilirubin and other toxic metabolites), circulating immune complexes
- Eliminate polyorgan disorders
- Correct homeostasis

<table>
<thead>
<tr>
<th>Indications</th>
<th>Contraindications</th>
<th>Criteria of Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase and deepening of consciousness disorders (joining of oneiroide-like, amential-like disturbances, soporose condition)</td>
<td>Pronounced denutrition</td>
<td>✅ Reduction of psychopathological disturbances with clearing of consciousness, correction of neurological and somatic breaches</td>
</tr>
<tr>
<td>Increase of signs of encephalopathy</td>
<td>Bleeding</td>
<td>✅ Normalization of hemodynamic indicators</td>
</tr>
<tr>
<td>Absence of effect from performed medicamentous therapy</td>
<td></td>
<td>✅ Improvement of laboratory (biochemical and immunological) indicators</td>
</tr>
<tr>
<td>Increase of gravity of somatic disturbances</td>
<td></td>
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</tr>
</tbody>
</table>

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### PLASMAHEPHERESIS IN NARCOLOGY

#### PLASMAHEPHERESIS IN CHRONIC ALCOHOLISM OF II AND II-III STAGES

**INTOXICATION BY ALCOHOL. ALCOHOLIC ABSTINENT SYNDROME (AAS). MEDIUM AND SEVERE DEGREE OF GRAVITY**

Plasmapheresis (PA) is used in combined therapy of chronic alcoholism of II and II-III stages under the following states. PA is performed for quick and efficient treatment of exogenic and endogenic intoxication.

PA is applied in order to:

- perform detoxication (to remove from the organism alcohol and products of its metabolism, excessive amount of neuromediators, ferments, bilirubin and others, circulating immune complexes)
- improve microcirculation and rheological characteristics of blood
- eliminate polyorgan breaches
- correct homeostasis
- prevent development of grave complications
- improve the general condition of patients
- increase sensibility to medicamentous therapy

#### INDICATIONS

- Increase of gravity of somato-vegetative, neurological and psychopathological disorders in the AAS structure
- Development of predelirious state, presence of associated pathology
- Absence of effect from performed medicamentous therapy or presence of complications due to its performing, as well as in case of contraindications to its performing

#### CONTRAINDICATIONS

- Pronounced denutrition
- Bleeding
- Acute cardiovascular insufficiency

#### CRITERIA OF EFFICIENCY

- Improvement of the general state of the patients
- Correction of somatovegetative, neurological and psychopathological disturbances
- Increase of the effect from medicamentous therapy
- Normalization of hemodynamic breaches
- Improvement of laboratory (biochemical and immunological) indicators

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PLASMAPHERESIS IN NARCOLOGY

PLASMAPHERESIS IN CHRONIC ALCOHOLISM OF II AND II-III STAGES (POSTABSTINENT SYNDROME)

Plasmapheresis (PA) is used in combined therapy of chronic alcoholism of II and II-III stages under the following states. PA is performed after passing acute abstinent disturbances in case of absence of positive effect from the performed medicamentous therapy, in order to overcome pharmacological resistance and accelerate the elimination of toxins from the extravascular mediums of the organism.

PA is applied in order to:

- perform detoxication (to remove from the organism alcohol and products of its metabolism, excessive amount of neuromediators, ferments, bilirubin and others, circulating immune complexes)
- improve microcirculation and rheological characteristics of blood
- eliminate polyorgan breaches
- correct homeostasis
- prevent development of grave complications
- improve the general condition of patients
- increase sensibility to medicamentous therapy

### INDICATIONS

- Resistance to the psychopharmacotherapy performed
- High tolerance to psychotropic remedies, developing on the background of long psychopharmacotherapy
- Lingering disturbances of the depressive circle, arised in the postabstinent period

### CONTRAINDICATIONS

- Pronounced denutrition
- Bleeding

### CRITERIA OF EFFICIENCY

- Improvement of the general state of the patients
- Correction of somatovegetative, neurological and psychopathological disturbances
- Increase of the effect from medicamentous therapy
- Normalization of hemodynamic breaches
- Improvement of laboratory (biochemical and immunological) indicators

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**PLASMAPHERESIS IN NARCOLOGY**

**PLASMAPHERESIS IN THE TREATMENT OF OPIUM NARCOMANIA**  
(INTOXICATION BY OPIATES. MEDIUM AND SEVERE DEGREES OF GRAVITY)

<table>
<thead>
<tr>
<th>INDICATIONS</th>
<th>CONTRAINDICATIONS</th>
<th>CRITERIA OF EFFICIENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>➢ Overdosage by drugs of opium group</td>
<td>➢ Pronounced exhaustion</td>
<td>✓ Normalization of breathing, API, CCF</td>
</tr>
<tr>
<td>➢ Increase of breathing depression</td>
<td>➢ Bleeding</td>
<td>✓ Restitution of pain sensibility</td>
</tr>
<tr>
<td>➢ Alteration of consciousness up to sopor and coma, constriction of pupils, eye, absence of their reaction to light, loss of reflexes (corneal, pharyngeal, pain)</td>
<td>➢ Acute cardiovascular insufficiency</td>
<td>✓ Partial or complete clearing of consciousness</td>
</tr>
<tr>
<td>➢ Lowering of AP, pronounced bradycardia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>➢ In a state of pronounced intoxication by opiates, PA should be performed only after using specific antidotes - naloxon 0,04% up to 10 mg i/v!</td>
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<td></td>
</tr>
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PLASMAPHERESIS IN THE TREATMENT OF OPIUM NARCOMANIA
(OPiUM ABSTINENT SYNDROME. MEDIUM AND SEVERE DEGREES OF GRAVITY)

PA is applied here in order to:

- ensure detoxication (to remove from the organism the remaining amount of the drug and its metabolites, other psychoactive agents, excessive amount of neuromediators, ferments, bilirubin and others, circulating immune complexes)
- improve microcirculation and rheological characteristics of blood
- correct homeostasis
- increase sensibility to medicamentous therapy
- improve the general condition of the patients

INDICATIONS

- Resistance to the psychopharmacotherapy applied in the form of incontrollable algic and insomniac disturbances
- Presence of associated somatic pathology, first of all of the liver pathology, preventing the administration of a big amount of psychopharmacological remedies
- Complications and side effects due to the therapy performed neuroleptic syndrome

CONTRAINDICATIONS

- Pronounced denutrition
- Bleeding
- Acute cardiovascular insufficiency

CRITERIA OF EFFICIENCY

- Improvement of the general state of the patients
- Correction of somatovegetative, neurological and psychopathological disturbances
- Increase of the effect from medicamentous therapy
- Normalization of hemodynamic breaches
- Improvement of laboratory (biochemical and immunological) indicators
- In treating chronic alcoholism, PA is always administered in combination with medicamentous therapy, physiotherapy and psychotherapy

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# PLASMAPHERESIS IN NARCOLOGY

## PLASMAPHERESIS IN THE TREATMENT OF OPIUM NARCOMANIA
**(OPIUM NARCOMANIA, POSTABSTINENT PERIOD)**

PA is used for:
- increasing sensitivity to the therapy conducted
- correcting immune status
- improving the general condition of the patients

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<td>➢ High tolerance to psychotropic remedies</td>
<td>✓ Improvement of the general condition of patients</td>
<td>✓ Correction of somatovegetative, neurological and psychopathological disturbances</td>
</tr>
<tr>
<td>➢ Complications, developed on the background of long-time psychopharmacotherapy</td>
<td>✓ Increase of the effect of medicamentous therapy</td>
<td>✓ Normalization of hemodynamic breaches</td>
</tr>
<tr>
<td>➢ Neuroleptic syndrome</td>
<td>✓ Improvement of laboratory (biochemical and immunological) indicators</td>
<td></td>
</tr>
<tr>
<td>➢ Protracted disturbances of depressive circle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>➢ Presence of concomitant somatic pathology</td>
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