INTRODUCTION

According to WHO statistics, the frequency of premature termination of pregnancy varies 10-25% in different countries [1-3]. The results of the demographic indicators analysis for the last 15-20 years have been shown that Ukraine is in deep demographic crisis. The problem of miscarriage of pregnancy (MP) is especially significant: direct reproductive losses related to it result in 36-40 thousand of unborn babies in Ukraine annually. These data claim that the research in this area is one of the most important tasks of modern Ukrainian medicine [4].

Taking into account the high frequency of early pregnancy losses, which reaches 25% of the total number of pregnancy in the present conditions with the lack of tendency to decrease it and its negative influence on women's reproductive health, the issue of rational monitoring of early stages of pregnancy in order to prevent reproductive losses is extremely important [3, 8-11]. Thus, in the early stages of pregnancy, the foundations of placental insufficiency and delayed fetal development are laid, defects of pregravid preparation are realized, prophylactic opportunities which could contribute to the reduction of prenatal and maternal mortality are lost. The main reserve for the reduction of early reproductive losses is the establishment of an adequate monitoring level and an effective system for the prevention and treatment of threatened abortion (miscarriages) [3, 8, 11-13]. The threat of miscarriage in the early stages of pregnancy is one of the most important problems of modern health care both in Ukraine and in the world [1, 3, 5, 8, 10, 11, 13-17]. The relevance, purpose and design of our work are determined by the need of review and unified interpretation of terms relevant to the issue of MP, often controversy positions and views on the marked problem, the lack of systematic research in this perspective in Ukraine.

THE AIM

The purpose of the article is to examine the state of a miscarriage of pregnancy problem and approaches to its solution based on current Ukrainian and international experience; to investigate a relevant set of terms and their interpretations that are tangible to the above-mentioned problem.
MATERIALS AND METHODS
Objects: the process of providing medical assistance regarding the problem; modern evidence-based information; information array of clinical trials and meta-analysis results [14-16, 18-24]; a relevant set of terms and concepts related to MP. The research methods: system analysis, bibliographic, bibliosemantic, comparative and analytical.

REVIEW AND DISCUSSION
The first stage of our research involved the implementation of the search and analysis of the conceptual and terminological apparatus in relation to the problem of MP [14, 15, 25-27]. It is established that considerable discussions among the foreign scientists cause terminological aspects, tangential to the problem of MP. Thus, the unintentional use of inadequate terms, such as «pregnancy failure», can form negative influence on women, cause the exaggeration of their condition, induce the feeling of despair, guilt, uncertainty associated with loss of pregnancy [14, 21], and besides, depression can be developed. There are also other terminological ambiguities associated with the termination of pregnancy, in particular, there are often the following terms: spontaneous abortion, threatened abortion etc. instead of miscarriage, the threat of miscarriage (threatened miscarriage) recommended by international experts both in domestic and foreign researches (Table 1). It should be noted that in Ukraine, both at the legislative level and in clinical practice, the same outdated terminology is still being used: threatening abortion, spontaneous abortion, habitual abortion, etc. [3, 25, 26]. Analysis results of the available information flows pertaining to the problem have been shown the necessity to revise and standardize the terminology relating to the outlined problem, in particular, to find the possibility of adapting and integrating international experience on the above issues in Ukrainian realities. Considering all the above mentioned, we present our glossary of interpretations (n=13) pertaining to the problem under investigation in the context of the revised (preliminary) and recommended by authoritative international experts terms as a result of our bibliosemantic research (Table 1).

Table I. Glossary of terms (n=13) related to the problem under investigation, created by us as a result of a bibliosemantic analysis (own researches using relevant scientific sources [14, 15])

<table>
<thead>
<tr>
<th>Recommended term</th>
<th>Revised term</th>
<th>Definition</th>
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<tbody>
<tr>
<td>Miscarriage</td>
<td>Spontaneous abortion</td>
<td>Loss of pregnancy for up to 20 full weeks or less than 400 grams of fetal weight.</td>
</tr>
<tr>
<td>Threatened miscarriage</td>
<td>Threatened abortion</td>
<td>Any vaginal bleeding revealed up to 20 weeks of gestation.</td>
</tr>
<tr>
<td>Inevitable miscarriage</td>
<td>Inevitable abortion</td>
<td>Miscarriage is inevitable or miscarriage in the course.</td>
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<tr>
<td>Incomplete miscarriage</td>
<td>Incomplete abortion</td>
<td>Miscarriage when the fetus or placenta cannot be naturally removed from the mother.</td>
</tr>
<tr>
<td>Complete miscarriage</td>
<td>Complete abortion</td>
<td>Miscarriage that does not require medical or surgical intervention.</td>
</tr>
<tr>
<td>Missed miscarriage</td>
<td>Missed abortion</td>
<td>Ultrasound confirmed non-viability of pregnancy without bleeding.</td>
</tr>
<tr>
<td>Anembryonic pregnancy / Blighted ovum</td>
<td>Early fetal demise / Delayed miscarriage / Silent miscarriage</td>
<td>A blighted ovum occurs when a fertilized egg implants in the uterus but doesn’t develop into an embryo. It is also referred to as an anembryonic (no embryo) pregnancy and is a leading cause of early pregnancy failure or miscarriage.</td>
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<tr>
<td>Miscarriage with infection (sepsis)</td>
<td>Septic abortion</td>
<td>Miscarriage is complicated by infection of the pelvic organs.</td>
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<tr>
<td>Recurrent miscarriage</td>
<td>Recurrent abortion</td>
<td>3 or more consecutive miscarriages of the same woman.</td>
</tr>
<tr>
<td>Pregnancy of unknown location</td>
<td>–</td>
<td>No signs of either intra- or extrauterine pregnancy or retained products of conception in a woman with a positive pregnancy test.</td>
</tr>
<tr>
<td>Pregnancy of ‘uncertain viability’</td>
<td>–</td>
<td>Intrauterine sac (&lt;20mm mean diameter) with) no obvious yolk sac or fetus or Fetal echo &lt;6mm crown-rump length with no obvious fetal heart activity. In order to confirm or refute viability, a repeat scan at a minimal interval of 1 week is necessary.</td>
</tr>
<tr>
<td>Heterotopic pregnancy</td>
<td>–</td>
<td>Intra- + extrauterine pregnancy (e.g., in the fallopian tubes, cervix, ovaries, abdominal cavity).</td>
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<tr>
<td>Gestational trophoblastic disease</td>
<td>–</td>
<td>Is a term used for a group of pregnancy-related tumours. These tumours are rare, and they appear when cells in the womb start to proliferate uncontrollably. Also known as a molar pregnancy.</td>
</tr>
</tbody>
</table>
MP frequency ranges from 10 to 25%; in the 1st trimester it can reach 50%, in the 2nd trimester – 20%, in the 3rd trimester – 30% [3, 9, 13, 16, 28]. We have identified the following risk factors for threatened miscarriage (n=4) (own research based on available information flow [3, 13, 15, 29]): 1) socio-biological factors: low socioeconomic status (low income, low level of education, malnutrition), job-related to physical activity, stress; 2) data obstetric and gynecological history: maternal age – under 16 and over 35 years, preterm birth anamnesis, burdened obstetrical anamnesis; 3) presence of extragenital pathology: diabetes mellitus, arterial hypertension and other diseases of the cardiovascular system, bronchial asthma, pyelonephritis, usual intoxication (alcohol use, smoking), drug addiction; 4) complications of pregnancy: multiple fertility, breech presentation of the fetus (prematurity in 20% of cases), placenta previa (premature delivery is 5 times more often), placental detachment (premature delivery is 4 times more often), infection, intrauterine infection, gestosis (pre-eclampsia). The threat of termination of pregnancy is the increase in contractile activity of the uterus, which can potentially lead to detachment of the fetal egg and its removal from the uterus. Habitual MP is spontaneous termination of pregnancy 2 or more consecutive times. In early terms (2-4 weeks) spontaneous miscarriages by more than 50% of cases are due to chromosomal abnormalities [5, 6, 22]. Therefore, it is not recommended to use hormonal and immune therapies when the cause of the miscarriage is not clarified and woman’s examination was not conducted before pregnancy. At the threat of termination in the 1st trimester, ultrasound should be performed urgently to determine the viability of the embryo, because signs of a threat often appear after its death. During early pregnancy, vaginal bleeding and the presence of abdominal/pelvic pain of any degree are the threat of miscarriage. Approximately ¼ of all pregnant women have a certain degree of vaginal bleeding during the first two trimesters. About ½ of these cases progress to actual miscarriage. Bleeding and pain that accompanies threatened miscarriage are usually not too intense [13, 29].

Given the high incidence of early pregnancy loss, as well as a large number of the above-mentioned risk factors for the threatened miscarriage and their negative impact on women’s reproductive health, we have analyzed the main causes and factors of MP (Table II).

The prediction of a successful pregnancy depends on the etiology of previous spontaneous miscarriages, age of the patient, and the manifestation of pregnancy on ultrasound. According to statistics, in women under 35, the risk of threatened miscarriage is about 10%, while at the age of 40 and over, it reaches 45% [6]. In women with recurrent MP correction of endocrine pathology has a better prognosis for successful pregnancy (>90%). In women with unknown cause of previous loss of the pregnancy, the

### Table II. The main causes and factors of MP (adapted for Slava V Gaufberg, 2017 [30])

<table>
<thead>
<tr>
<th>Causes of miscarriage of the 1st and 2nd trimester:</th>
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<tbody>
<tr>
<td>- Embryonic anomalies make up of 80-90% of spontaneous miscarriages in the 1st trimester.</td>
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<tr>
<td>- Chromosomal abnormalities are the most common cause of spontaneous miscarriage. More than 90% of cytogenetic and morphological errors are eliminated by spontaneous miscarriage.</td>
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<tr>
<td>- Chromosomal abnormalities were found in more than 75% of the fetuses with the threat of miscarriage in the first trimester.</td>
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<td>- The rate of chromosomal abnormalities increases with age in women over 35 years.</td>
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<tr>
<th>Acute maternal health factors include the following:</th>
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<tbody>
<tr>
<td>- Infections (such as rubella, cytomegalovirus, ureaplasma, listeria, mycoplasma infection and toxoplasmosis).</td>
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<tr>
<td>- Injuries.</td>
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<tr>
<td>- A severe emotional shock can also cause miscarriage in the 1st and 2nd trimesters.</td>
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<thead>
<tr>
<th>Other factors that may cause miscarriage:</th>
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<tr>
<td>- Alcohol, tobacco, cocaine and other drugs.</td>
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<tr>
<th>Endocrine factors:</th>
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<tr>
<td>- Potentially contribute to MP 10-20% of cases.</td>
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<tr>
<td>- Luteal phase deficiency (i.e., dysfunction of the corpus luteum with insufficient progesterone production) which is the most common endocrine abnormalities and lead to the threat of miscarriage.</td>
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<tr>
<td>- Hypothyroidism.</td>
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<tr>
<td>- Polycystic ovary disease.</td>
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<tr>
<th>Infectious factors:</th>
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<tr>
<td>- Bacterial, viral, parasitic, fungal and zoonotic infections associated with the recurrence of spontaneous miscarriage.</td>
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<tr>
<th>Immunological factors:</th>
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<tr>
<td>- Developing embryo and trophoblast can be considered immunologically foreign to the maternal immune system.</td>
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<tr>
<td>- Immunological factors may contribute up to 60% recurrence of spontaneous miscarriages.</td>
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<tr>
<th>Various factors:</th>
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<tbody>
<tr>
<td>- Environmental factors, medicines, placental disorders, iatrogenic and causes from the father’s side.</td>
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<tr>
<td>- Various factors can be up to 3% of recurrent spontaneous miscarriages.</td>
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<tr>
<th>Age and demographic factors:</th>
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<tr>
<td>- Age affects the risk of threatened miscarriage in women.</td>
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<td>- In women, younger than 20 years miscarriage occurs in 12% of pregnancy.</td>
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<tr>
<td>- In women over 20 years old miscarriage occurs in 26% of pregnancy.</td>
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probability of achieving successful pregnancies is 40-80%.
When transvaginal ultrasound of the pelvic organs shows
an embryo, at least 8 weeks according to gestational age
and cardiac activity, the miscarriage in patients under 35
years is 5% and over 35 years – 8%. The overall level of
threat of miscarriage in patients over 35 years is 14%, and
under 35 years – 7% [31].

Epidemiological surveillance data suggest that sponta-
neous miscarriages and induced abortions account for
about 4% of deaths related to pregnancy in the USA [20].
The formation of complications of pregnancy occurs in
the early stages of its development during the invasion
of the trophoblast. A normal healthy placenta is formed
due to a successful invasion providing protection during
pregnancy. In the case when the trophoblast cells do not
penetrate the wall of the spiral arteries, the vessels remain
narrow, the blood circulation is disturbed and the defective
placenta is formed, placental insufficiency develops. This,
in turn, leads to complications of pregnancy, such as growth
retardation of the fetus, MP with termination on various
terms and pre-eclampsia, etc. There are still no effective
methods and clear algorithms for the treatment of the
listed complications in the world. In particular, premature
births are still the urgent problem of practical medicine
[32]. The direction which has been actively developing
for the last years and is used for pharmacotherapy (PhT)
of premature delivery – tocolytic therapy, has shown its
failure. It turned out that the administration of tocolytics
(fenoterol, hexoprenaline) appeared not to reduce the fre-
quency of premature delivery. The usage of such medicines
can only delay the onset of delivery for 2–7 days but does
not provide indices reduction of premature delivery and
improvement of neonatal sequences. Further maintenance
of therapy is inappropriate due to the absence of clinical
efficacy from the tocolytic PhT within 3 days. Preventive
usage of any tocolytics also does not prevent the onset of
premature delivery [29, 33].

Thus, the main focus of modern obstetrics is the preven-
tion of complications of pregnancy. To do this, first of all,
it is necessary to identify women at risk of the complicated
course of pregnancy, and secondly, their pregravid prepa-
ration and prevention of complications during pregnancy.
However, complicated pregnancy is a multifactorial pro-
cess, the task of the physician is to identify the risk factors
before pregnancy and compensate them by all available
methods. After compensation, you can start preparation;
otherwise, it will lead to a complicated course of pregnancy
and its loss. The forecast is increasingly unfavorable with
each subsequent loss [1, 5, 13].

Treatment of the threat of miscarriage in the vast majority
is performed in a hospital, in some clinical situations – in
outpatient departments. Medicinal therapy is prescribed
by a doctor, depending on: 1) causative factor inducing
the risk of miscarriage; 2) term of pregnancy and 3) the
individual features of the pregnant woman taking into
account the data of the complex examination. The earlier
the PhT of the threat of miscarriage begins, the higher
percentage of maintenance of pregnancy is. The treatment
of the threat of miscarriage is complex and involves the
following measures: 1) complete bed rest; using psycho-
therapy sessions; 2) the administration of sedative drugs
(tincture of valerian, motherwort); 3) usage of spasmyloytic
drugs (papaverine, drotaverine, magnesium sulfate); the
administration of vitamins (E, C); 4) hormones are usually
used in the 1st trimester ensuring the normal course of
pregnancy (these drugs include progesterone); 5) if there
is hyperandrogenemia and/or immune factors of the threat
of termination of pregnancy in the 1st trimester, cortico-
steroids are prescribed (dexamethasone, methylpredniso-
one); 6) if cervical insufficiency is revealed, conservative
or surgical therapy is performed. Surgical treatment can
be done by mechanical contraction of the inferior internal
orifice of the uterus or by the method of stitching of its
outer orifice; 7) in the case of blood discharge hemostatic
drugs (tranexamic acid) can be used; 8) if it is necessary,
PhT of the revealed infections is carried out [8, 34, 35].

However, during pregnancy hormones should be ad-
ministered strictly according to the doctor’s prescription
and after the previous examination. Rules for the admin-
istration of hormonal medicines during pregnancy: 1) the
administration of hormonal medicines should be strictly
proved; 2) it is important the continuous monitoring effi-
cacy of hormonal PhT 3) hormonal medicines should be
administered in minimal doses; 4) estrogens are prescribed
from the 5th week of pregnancy, and gestagens – after 8
and up to 14-16 weeks; in the future the formed placenta
will begin to perform the function of the formation of
hormones [3, 25, 36].

The treatment of women with the threat of termination
of pregnancy does not necessarily involve hospitalization.
A woman on a bed rest moves less, takes more food, all
these causes induce a disturbance of sleep, muscular atro-
phy, cardiovascular and gastrointestinal disorders, weight
gain, stress, depression, etc. Each of these components is
an independent factor of complicated course of pregnancy.
Increasing the risk of thrombosis is an adverse reaction and
dangerous consequence of hospitalization and bed rest. The
results of the Danish cohort clinical trial, during which out
of 1.3 million pregnant women ½ were hospitalized for
various causes, have shown that hospitalization and stay in
hospital only for 3-7 days 12.2 times increases the risk of
thrombophlebitis complications from 3.5 to 42.1 per 100
thousand women [23].

In today’s conditions, the pathogenetic validity of the
use of progestogens for the purpose of PhT of a threatened
miscarriage is beyond doubt. Since absolute or relative
progesterone deficiency is one of the main components
of the pathogenesis of early reproductive losses, the
progesterone administration is considered to be entirely
appropriate regardless of the genesis of MP [24]. At
the same time, the fact that, in a number of cases, hormonal
pharmacotherapy does not give proper effect is attracting
attention and alarming; it stimulates the search for new
approaches to correction of hormonal disorders. Thus,
the development of the differentiated treatment schemes
of threatened miscarriage as a predictor of early reproduc-
tive losses, taking into account pathogenetic aspects, is an extremely urgent task.

Dydrogesterone is one of the drugs of choice at risk of miscarriage [28, 34, 36]. Indication of its administration is the lack of progesterone in the woman body, confirmed by the laboratory method. Dydrogesterone is a synthetic analog of progesterone and structurally quite similar to the natural woman progesterone. When using dydrogesterone orally is indicated its selective effect on specific uterine receptors that are sensitive to it. Positive effects of dydroges-
terone: does not affect blood clotting; does not disturb liver function; does not cause the development of virilization (hirsutism), both in women and in the embryo, which is a characteristic feature of some other progestogens. PhT schemes and dosage of dydrogesterone are assorted by the physician in each case individually according to the recom-
mendations of the instructions for medical use. Dosage of dydrogesterone in case of the threat of miscarriage is 40 mg once and then it is 10 mg every 8 hours until symptoms disappear completely. If there isn’t any positive dynamics, you can increase the dosage by 10 mg every 8 hours. After eliminating the symptoms of threatened miscarriage, PhT with the optimally chosen dose is continued for 7 days, then the dosage is gradually reduced. If, after a dose reduction, the symptoms of threatened miscarriage are restoring, you should return to the previous dosage at which they disappeared. Dydrogesterone is usually prescribed in the first trimester of pregnancy – up to 16 weeks until the placenta is formed, which will then take on the function of producing hormones [34, 36].

The meta-analysis of studies, where 2158 women were involved, have shown that progesterone PhT significantly reduces the incidence of spontaneous miscarriages in women with recurrent miscarriage compared with placebo (relative risk 0.39 [RR]; 95% confidence interval [CI] 0.21-0.72) and do not increase side effects towards mother and fetus [18, 37]. In pregnancy, medication of choice is micronized progesterone because the physiological effects are completely equivalent to endogenous progesterone and its metabolites. Micronized progesterone is prescribed to pregnant women only vaginally, which provides the effect of primary passage through the cervix and allows it to reach its maximum concentration in the uterus. The administra-
tion of progesterone is also necessary for women with the threat of termination of pregnancy with burdened gynecological history. Bases for the further course of pregnancy are laid out in the 1st trimester, and the threat of termination greatly worsens the further forecast in this period.

The results of a number of clinical trials have shown that in 9 out of 10 pregnant women with burdened obstetric-gynecological anamnesis, the threat of miscarriage remained at late stages of pregnancy. Practically all of them had an infus-
tion tocolytic pharmacotherapy of β-mimetics, followed by prolonged administration in tablet form. Histological signs of placental insufficiency were detected later in all pregnant women. In each of the 3rd cases, placental insufficiency was combined with delayed fetal development. The inclusion of progesterone in the complex of PhT of the

threatened miscarriage has led to significant improvement in the further course of pregnancy. Threatened miscarriage rate (the frequency of the threat of P termination) in the second half of pregnancy decreased by 1.5 times and the necessity of β-mimetics administration reduced by 2 times when progesterone was used to 12-16 weeks of pregnancy. In women who took progesterone for a prolonged period, the threatened miscarriage rate was 2.6 times lower and the necessity of β-mimetics administration reduced 11 times [18, 33, 34, 37].

The traditional administration of different multivitamin complexes does not improve obstetric and prenatal outcomes, at the same time, it increases the risk of multiple pregnancies by 38% [12]. First of all, this is due to excessive vitamin A and folic acid (when its dose is more than 400 mcg per day). Protein and energy supplements are not indicated for the treatment of pregnant women, as they lead to weight gain and increase the threat of termination of pregnancy [38]. Only the balanced diet provides a favorable course and outcome of pregnancy [39].

In 2007, Russian experts published clear guidelines for pregnancy, where 3 key positions were highlighted: the 1st – mandatory prenatal screening to detect fetal chromosomal abnormalities; the 2nd position is devoted to the use of folic acid; the 3rd – prevention of preterm birth. This document noted that all women who are going to become pregnant should be taking 400 mcg per day of folic acid for at least 30 days before pregnancy onset and continuing throughout the 1st trimester. Additional taking of folic acid not only reduces the risk of developing of neural tube defects in the fetus but also other adverse complications: congenital heart disease, maxillofacial defects, low birth weight, preterm birth and autism [35].

In addition to the role of the universal regulator of many biochemical processes in the body as a whole during preg-
nancy, the importance of magnesium as a specific factor necessary for the proper functioning of the placenta and the system of «mother-placenta-fetus» increases. The placenta is formed and actively functions starting from the earliest terms of pregnancy up to the very birth of a child. Among the tissues of the human body, the placenta is characterized by one of the highest levels of magne-
sium content. Placental magnesium-dependent proteins control [33]: metabolism in the placenta; the condition of the muscular, immune, connective tissue systems; proliferation and apoptosis. Magnesium deficiency naturally leads to a decrease in its total amount in the placenta in complexes with both adenosine triphosphate and proteins. Reducing the activity of magnesium-dependent placental proteins leads to inadequate functioning of the placenta. A successful pregnancy is found to depend on adequate im-
plantation and placentation with the establishment of the complete blood flow in the «mother-placenta-fetus» system to a large extent. Therefore, the deficiency of magnesium can disrupt the normal placental process and lead to the threat of termination of pregnancy in the first trimester or to further development of fetoplacental insufficiency. Thus, a sufficient supply of the woman body with magnesium in
the period of pregnancy is absolutely necessary to maintain the biological functions of the placenta and the system of «mother-placenta-fetus» in general [29, 33, 39].

The positive effect of medicines of magnesium on the pregnancy course is due to such pharmacological effects as a reduction in the tone of the uterus, vasodilation and corresponding improvement of the blood flow in the vessels of the placenta, decreased platelet aggregation, the regulation of vascular tone, etc. [39]. These medicines are traditionally used in obstetric and gynecological practice in complex PhT of threatened and recurrent miscarriage, which is undoubtedly one of the most urgent problems of modern obstetrics and gynecology. Clinical symptoms of the threat of termination of pregnancy correlate with a decrease in magnesium concentration in blood serum [19]. Parenteral or tablet drug forms of magnesium compounds are used depending on the presence and severity of clinical symptoms as well as the purpose (therapeutic or prophylactic). Moreover, the preventive magnesium administration in patients with MP in history is not less important than their use for therapeutic purpose. The effectiveness of oral administration of organic salts of magnesium up to the 25th week of pregnancy for the purpose of prevention was demonstrated in a meta-analysis of 7 clinical trials with 2,689 patients performed by experts of the Cochrane community. In particular, the risk of the threat of termination was reduced by 62% (RR: 0.38; 95% CI: 0.16-0.90) [18].

CONCLUSIONS
1. The results of bibliosemantic research on the basis of available information flow with the indicated problem claim that there is the existence of terminological ambiguity related to the threat of miscarriage. In particular, there are often the following terms both in native Ukrainian and foreign sources: spontaneous abortion, threatened abortion, etc. instead of miscarriage, the threat of miscarriage (threatened miscarriage) recommended by international experts. In this regard, there is a need to revise and standardize the terminology (n=13) relating to the outlined problem, in particular, to find the possibility of adapting and integrating international experience on the above issues in Ukrainian realities. Unintended use of inadequate terms, in particular, «pregnancy failure» may form negative influence on women, cause the exaggeration of their condition, induce the feeling of despair, guilt, uncertainty associated with loss of the pregnancy, moreover, depression can be developed, which acquires a special social significance.

2. According to the results of our analysis of modern domestic and foreign experience regarding the studied problem, it has been established that the achievement of the rationality of PhT in pregnant women with the risk of miscarriage is complicated by the presence of extragenital pathology, burdened obstetric-gynecological anamnesis, lack of adequate drugs and possibilities of their prescription, especially in the first half of pregnancy. Failure of taking into account these factors in the prescription of medicines increases the risk of occurrence of drug-related problems, prolongation of hospitalization and the adverse outcome of treatment (miscarriage). The management of MP and threatened miscarriage in the 1st trimester of pregnancy should be based on the current international clinical guidelines for safe and effective use of medicines. It should provide a comprehensive evidence-based approach to treatment, taking into account a number of warnings and factors related, in particular, to the complex psycho-emotional state of women in this period.

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