CONSERVATIVE THERAPY OF PATIENTS WITH SUPERFICIAL THROMBOFLEBITIS

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Abstract: Superficial vein thrombophlebitis (STP) is a common inflammatory-thrombotic process that may occur spontaneously, after a trauma or as a complication after medical or surgical interventions (1, 2, 6). In most of the cases it is a sterile inflammation of the vein wall and the surrounding tissue, accompanied by intravenous thrombosis. In the rare cases of infectious superficial thrombophlebitis, the infection is introduced inside the veins, mostly after venous manipulations, by insects, traumatism or furunculosis.

The frequency of the disease is higher at women, probably because of pregnancy and the high rate of varicosis. The superficial thromboflebitis affects all the ages (from 18 to 87), but is most frequent between 50 and 60 years for men and women.

In a nine years period, since 01.01.2009 to 31.12.2017, 495 patients were treated by STP in Military medical Academy. They were divided in two groups. 108 (22%) patients from the first group, were admitted for surgery. The other group of 387 patients underwent conservative therapy.

The goals of therapy for superficial thrombophlebitis are to prevent progression into the deep venous system and to hasten the resolution of the inflammatory and thrombotic processes in areas already involved.

The nonsteroidal antiinflammatory and venotonical drugs, low molecular weight heparin and nonsteroidal creams for local application are the first options. In the rear cases of infectious thromboflebitis, the antibiotics are applied.

When the thrombophlebitis of the saphenous veins reaches the saphenofemoral (SFJ) or saphenopopliteal (SPJ) junction, or cloth reaches the iliac veins, the surgical treatment is suggested.

Keywords: Chronical venous disease, varicose disease, deep vein thrombosis, postthrombotic syndrome.

CONSERVATIVNO LECENIE PRI PACEHTI S POUVRKHNOSTEN TROMBOFLEBIT

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Резюме: Повърхностният тромбофлебит (ПТФ) е асептичен възпалителен процес на венозната стена, придружан от интравенозна тромбоза. Появява се спонтанно, при травми или като усложнение при венозни апликации или хирургически интервенции. Най-често процесът е асептичен, като обхваща и перивенозната тъкан и се явява усложнение на варикозно променените повърхностни вени - 10 пъти по-често отколкото при варикозно непроменени вени.(3, 4). Случаите на инфекциозен тромбофлебит са редки. В тези случаи обикновено инфекцията е внесена отвън - травми, венозни манипулации, ухапвания от насекоми или по съседство (фурункул).

Честотата на повърхностен тромбофлебит е по-голяма при жените, поради бременността и вероятно поради по-високата честота на варикоза на долните крайници. Засегнати са всички възрастови групи, от 18 до 87 годишна възраст, но най-много са пациентите и от двата пола между петата и шестата декада.

За девет годишен период от време, от 01.01.2009 година до 31.12.2017 година през диагностично-консултативния кабинет на ВМА и през специалния хирургичен кабинет на ВМА са преминали 495 пациенти
Introduction
Superficial vein thrombophlebitis is a common inflammatory-thrombotic process that may occur spontaneously, after trauma or as a complication after medical or surgical interventions. In most of the cases it is a sterile inflammation of the vein wall and the surrounding tissue, accompanied by intravenous thrombosis (F 1).

F1: Thrombophlebitis of Great Saphenous Vein

In the rare cases of infectious superficial thrombophlebitis, the infection is introduced inside the veins, mostly after venous manipulations, by insects, traumatism or furunculosis (F 2).

F 2: Infectious thrombophlebitis

The goals of therapy for superficial thrombophlebitis are to prevent progression into the deep venous system and to

Ключови думи: ХВН, варикозна болест, дълбока венозна тромбоза, постфлебитен синдром.
hasten the resolution of the inflammatory and thrombotic processes in areas already involved.

The nonsteroidal anti-inflammatory and venotonical drugs, low molecular weight heparin and nonsteroidal creams for local application are the first options. In the rear cases of infectious thromboflebitis, the antibiotics are applied. When the thromboplebitis of the saphenous veins reaches the saphenofemoral or saphenopopliteal junction, or cloth reaches the iliac veins, the surgical treatment is suggested.

MATERIALS AND METHODS

In a nine years period, since 01.01.2009 to 31.12.2017, 495 patients were treated by STP in Military medical Academy. They were divided in two groups. 108 (22%) patients from the first group, were admitted for surgery. The other group of 387 patients underwent conservative therapy.

The frequency of the disease is higher at women, probably because of pregnancy and the high rate of varicosis (5, 10, 12, 15). The superficial thromboflebitis affects all the ages (from 18 to 87), but is most frequent between 50 and 60 years for men and women (5, 13, 14).

The conservative therapy is of the first choice in Superficial thrombophlebitis. It includes non steroid antiinflammatory drugs for local and parenthral / intra venous use, venotonics, and low weight heparin continued after ten days with antiagregant therapy. Antibiotics can be applied only in cases with infectious superficial thromboflebitis. The patient is setted in motion. Standing straight or in bed slow up venous circulation and helps the cloth progression.

The conservative therapy has for an object to:
1. To stop the inflammation. The inflammatory process is the cause for pain and intravenous thrombosis.
The phlebitis and periphlebitis are responsible not only for the pain, but for sclerosis of surrounding tissue. That’s why ten days of antiinflammatory therapy for oral and local use is recommended.

2. To stop the clot progression into the deep veins. The risk of pulmonary thromboembolism increases with the clot progression into the deep veins. Low weight Heparin stops the clot progression. After two weeks of anticoagulant therapy, it may be continued with antiagregant therapy.

3. To stop the infection in those cases when an infection occurs. Antibiotics must be applied, it is to be wished with the largest spectrum antibiotics while waiting for the antibiogram results. Venotonics and elastic compression reduce the vein stasis and accelerate the venous blood flow.

In the last years we introduced a new method for local anesthesia. We use a 10% sol. Lidocaini over the affected superficial vein and the upper skin area. (F 5)

![F 5: Local anesthesia with 10% sol. Lidocaini](image)

Then corticosteroid ungv. is used to prolong the analgetic effect over the affected area (F 6) and to reduce the inflammation.

![F 6: Local application of corticosteroid ungv.](image)
CONCLUSIONS
1. The superficial thrombophlebitis is a serious disease, the underestimation of which some times has a fatal issue.
2. The frequency of the disease is higher at women, probably because of pregnancy and the high rate of varicosis.
3. The superficial thromboflebitis affects all the ages (from 18 to 87), but is most frequent between 50 and 60 years for men and women.
4. The goals of therapy for superficial thrombophlebitis are to prevent progression into the deep venous system.
5. The nonsteroidal antiinflammatory and venotonical drugs, low molecular weight heparin and nonsteroidal creams for local application are the first options.
6. The patient needs to be under medical observation till come through an illness.
7. When the thrombosis reaches the sapheno-femoral or sapheno-popliteal junction, or the process invades the deep veins, the surgery is recommended.

BIBLIOGRAPHY