

GEMOTHERAPY, AN ALTERNATIVE TO TREATMENT OF ANIMAL DISORDERS. ACTUAL TRENDS ON THE PHARMACEUTICAL MARKET

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Abstract

The pharmaceutical market faces a new trend that has both social and economic effects. Thus, in addition to the quantitative and value-development of the normal market held by medicines and drug solutions, this is multiplied by the development of the niche of food supplements but also of gemotherapeutic products. In the category of consumers, besides traditional ones representing human patients, it can be found with a growing share and users like animals. If, in the patients' situation, their use has become quite accurate, medical practice has allowed us to extend this use to animals as an effective and safe alternative to administering different gemotherapies in accordance with their constitutions. Gem derivatives can also be used effectively in animals as they are no toxicity and are easy to administer, prescribed individually or in combination. Thus, gemotherapy can be a therapeutic method for animals not only for humans, because they use diluted decimation solutions of hydroglycero alcoholic macerates from fresh vegetable extracts represented by meristematic tissues: jams, young branches, buds, young roots, avenues, internal roots of roots, shell of young branches, seeds or other embryonic plant tissues found in the growing phase. The use of gemoderivatives in the treatment of effects in animals allows the limitation of the use of chemically synthesized drugs which, despite their effectiveness, lead to the occurrence of side effects. Thus, the alternative to treatment with gemotherapies and animals is one with various implications both in terms of diversity and uniqueness of treatment, as well as financial implications for those who use them, but also for the economic entities that produce them, as well as for the pharmacies that issue and collect the price them.

Key words: animal therapy, economic efficiency, gemmotherapies.

INTRODUCTION

As with human patients, the body of animals no matter where they live, is in permanent contact with "foreign" organisms such as bacteria, viruses, parasites. They can benefit from their body by participating, for example, in the digestion of ingested products, in producing vitamins, or causing parasitic diseases as a result of infestation with various parasites (Laudato and Capasso, 2013).

The most common parasitic diseases encountered in animals are: toxoplasmosis, coccidiosis, babesiosis, tenosis, ancilostomosis, uncinariosis, trichurosis, strongiloidosis, spirocercosis, ascaridosis, trichocephalosis, dirofilariosis, trichinelosis (Rajeev Singh et al., 2008).

These parasitic diseases develop in the intestinal epithelial cells and bile duct cells, urinary tubes or other tissues, red blood cell elements or muscle tissue (Nițu, 2009).

Treatment of these diseases with broad spectrum anthelmintic drugs with active substance albendazole and levamisol or avermectin, are indicated in pet animals, dogs and cats in internal and external deworming.

Classic treatment is a precondition for both internal and external pests, both in animals and humans.

Internal parasites have various localizations (muscle, digestive, respiratory, excretory, etc.), causing the animals various parasitic diseases: protozoa (protozoa); nematodes (caused by parasitic cylindrical bodies, spread throughout the globe and parasitizing many animal species, including humans); trematodes (caused by trematodes, parasites with elongated oval body) and cestodoze (parasitic diseases whose body is flat in the form of ribbon) (Rajeev Singh et al., 2008).

Canidae, including the dog, are the definitive hosts for the caterpillars and can cause illness to various animal species, including humans.

External parasites (fleas, lice, ticks, worms, etc.) cause some clinical symptoms in animals: anxiety, pruritus, anemia, slimming, sting abscesses, urticaria and alopecia (Blăjeni, 1994).

METHODS AND MATERIALS

To characterize the evolution of gemoterapeutic demand that can be used in animals, we used the information provided by a pharmacy.

We have used quantitative value charts of gemoterapeutic products released in the pharmacy.

The study used gemotherapy sales as a study period, which can be used in animals between May 2018 and May 2019.

The method of study used was the quantitative value analysis, but also the commercial advantage achieved during the analyzed period.

RESULTS AND DISCUSSIONS

Deepening the use of gemo-therapies in treating various diseases in humans leads us to extinguish the study on their use in animals as well.

The study was addressed both in terms of content in mineral elements, both from the point of view of the therapeutic action and also from the economic point of view, of the sales made by the economic entities.

1. Thus, complex gemo-therapies of the type Polygemma, administered as such, but also in combination with other gemtherapies with strict therapeutic action on a particular condition can be used (Towle, 2002).

Polygemma is an original gemoterapeutic complex composed of combinations of extracts from different parts of plants. These complexes can often be used in detoxification cures for certain levels of the human and animal body. Thus, Polygemma 8 - psycho-physical asthenia and memory, is a combination of gemotherapies from Birch seeds, Oak shoots, Rosmarin shoots and extract from root of Siberian Ginseng. It can combat the fatigue states commonly encountered in parasitosis or post parasitism and are given 2 ml twice a day, 2-4 weeks (López-Malo et al., 2005).

Polygemma 15 Intestine can be used for detoxification (Oak Mugs, Cranberry and walnut shoots) - replenishes the intestinal flora, anti-inflammatory, tonic.

Polygemma 17 - immunity is a combination of gemoterapies from Cats, Porumbar, Maces and Echinacea purpurea juice, supports the restoration of the body and a shorter convalescence.

Administer 2 ml 3 times a day in 1-2 month treatments after untreated or inadequately treated parasites (López-Malo et al., 2005).

From the first signs of infestation with intestinal parasites, Giardinophyt will be administered. You can associate cures and other natural preparations, depending on the unpleasant manifestations that may occur. The extract from the Merişor branches is administered at noon and evening if the sensitivity is mostly intestinal, or there are transits disorders (López-Malo et al., 2005).

Walnut bud extract is administered at noon and evening in case of intestinal infections. Fig buds extract is administration noon and night, if present heartburn, and if signs of parasites are strong (large deletions), we add wild garlic tincture, 20-30 drops 3 times a day. The black currant bud extract is administered in the morning and at noon in case of allergic, respiratory or cutaneous reactions (López-Malo et al., 2005).

Tamarix seed extract and Porcupine bud extract are administered twice daily for weak or anemic patients.

Extract from Porumbar or Polygemma 8 shoots - in case of asthenia, in case of prolonged asthenia or after a parasite cure (López-Malo et al., 2005).

Polygemma 17 - Immunity is given for an immune cure. Only one gemoterapic or 2-3-combination combination may be given for 4-6 weeks - either beginning with the administration of Giardinophyt or after the Giardinophyt cure (European Pharmacopoeia, 2007).

If we alter the use of gemoterapics in the treatment of diseases that are potent and in animals, economically, the situation of gemoterapeutic sales for parasitosis treatment is presented as in the table below.

Table no. 1 Gemotherapy issued for treatment of intestinal parasites

No. crt	Name extract	Price entry	Price exit	Amount exit/pc	Value entry	Sales value	Comm. Addition
1.	Mlada Cranberry	16.99	22.50	16	271.84	360.00	88.16
2.	Walnut Buds	16.99	22.50	6	101.94	135.00	33.06
3.	Fruit buds	13.86	18.50	2	27.72	37.00	9.28
4.	Polygema 8	13.98	18.50	4	55.92	74.00	18.08
5.	Polygema 17	14.00	18.00	8	112.00	144.00	32.00
6.	Blackcurrant Buds	15.78	20.50	4	63.12	82.00	18.88
7.	Fountains by Tamarix	15.78	20.50	13	205.14	266.50	61.36
8.	Giardinophyt	12.30	16.70	59	725.70	985.30	259.60
9.	Poplar buds	15.02	20.00	12	180.24	240.00	59.76
	TOTAL	-	-	-	1631.62	2105.80	474.18

Source: Gemotherapeutic products during the analyzed period

As can be seen from the table above, the Giardinophyt gemoterapeutic product was approved and requested to be released in a quantity of 59 bottles with a release value of 985.30 lei, respectively a commercial addition of 259.60 lei. The value of gemotherapies with released anti-parasitic action was 2105.80 lei, with a commercial loom in absolute value of 474.18 lei.

From this study it appears that the release of gemoterapeutics with antiparasitic activity can be appreciated as an effective alternative to their human patient prescription and possible administration to animals.

Gemoterapics can also be recommended for animals to treat inflammatory conditions

Inflammation of a joint may have multiple causes, from exposure to adverse environmental factors to microtraumatism and exaggerated stresses of the same joints and other complicated infectious diseases with joint attachment like streptococcal infection (WHO guidelines, 2004).

Thus, local treatment in animals aims to restart the affected joint by applying ointments or creams with anti-inflammatory and anti-algic effects, applications of local warm or cold compresses, depending on existing ways or treating the existing infection in the body.

The current trend is to orient the treatment of various acne to the natural variants including animals, and lately there is an orientation towards treatments with gemoterapies in the form of tinctures or various extracts.

To relieve pain caused by inflammation of the joints, extracts and tinctures obtained from buds and juveniles of various plants are used as adjunct treatment (Farmacopeea europeană, 2007).

Thus, for the treatment of osteoarthritis, black currant extract is used which neutralizes the inflammation of affected joints. The effect is similar to that of anti-inflammatory drugs.

This plant extract does not have any inconvenient iatrogenic side effects that we can encounter in anti-inflammatory drug therapies. The anti-inflammatory action of black currant extract acts on tendons and ligaments and improves their flexibility even in animals (WHO guidelines, 2004).

It also has a distinct antiallergic activity. It is indicated in any inflammatory condition in which there is an accelerated rate of inflammation and allergies of any system.

Another gemoterapist used is the extract from Janeapan buds that acts on articular cartilage to maintain bone durability. It can also be given to animals to prevent fractures (De Smet, 2005).

It can also be used to treat chronically non-inflammatory rheumatic diseases in the spine, knee or hip. This treatment can be combined with Rinoplasty Tincture to stimulate lymphatic drainage around the joints and to help regenerate the cartilage (Sirois, 2009).

The live vine extract slows joint deformation along the joint and can be used for any painful arthritis, even in animals. The extracts presented may be given singly in the morning -

at noon - or during the night, or together using 2-4 ml each (Sirois, 2009).

There were no contraindications for this treatment, and treatment is usually continued two months before and one month after the symptoms disappears.

This gemoterapeutic treatment can be given alone or with other homeopathic and biotherapeutic remedies.

This gem therapy recommended for arthritis can also be associated with the fluffy blast extract known for its in-depth action on the reticulo-endothelial system and arterial circulation (Rajeev Singh et al., 2008).

This is a universal drencher and at one time works on several systems.

Knee arthritis can be treated with the same extracts to which can also be used and Janeapan sprout extract, also associated with the extract from the Macecs mildew for an anti-inflammatory effect on the knee joint.

Also for articular affections, the Mur extract of extract, which helps to restore cartilage and to treat osteoarthritis, can also be used.

In the treatment of aggressive inflammatory conditions such as rheumatoid arthritis, ankylosing spondylitis or psoriatic arthritis, black currant extracts, wild vines with tendon and ligament action, as well as bone deformity and sclerosis can be administered (Pitera, 2004).

As a result of the results of the study, the treatment of arthritis and inflammatory diseases by administering gemo-therapeutic preparations to both humans and animals should be addressed also from the financial point of view and from the point of view of the commercial advantages of the pharmaceutical entity.

In the following table we presented gemoterapeutic preparations with anti-inflammatory action released in the studied pharmacy.

Considering prescribing and administering anti-inflammatory drugs to humans and animals over a long period of time leads to side effects, the alternative to gemoherapies is one of quicker, less pungent treatment (Fig. 1).

The most liberated gemoderivate extracts with the most effective anti-inflammatory action were those in the Honey Mug extract with a total of 55 bottles, followed by the 28-cell Cranberry extract extract and the 23-vial Aarin white bud extract (López-Malo et al., 2005).

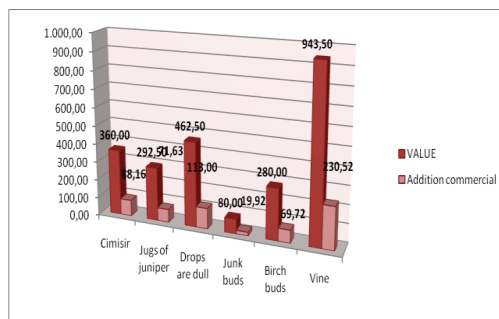


Figure 1. The commercial additions made to gemoterapeutic sales for the treatment of arthritis
Source: Gemoterapeutic products during the analyzed period

From the financial point of view it must be stated that the patient fully supports the value of the therapies with germo-therapy products, which can be appreciated as a considerable financial effort, knowing that the treatments are for longer periods of time.

From the point of view of the financial aspects of the pharmaceutical entity, it can be appreciated that the release of gemo-therapeutic products brings an additional of the immediate financial resources, totally collected at the time of the issue.

This is a financial aspect that is taken into consideration by the individual pharmaceutical entities when they need to be supplied in quantity, quality, and assortment structure that responds to patients' treatment needs.

Thus, from the release of anti-inflammatory anti-inflammatory gemoterapeutics, the pharmaceutical entity achieved a commercial surcharge of 883.68 lei, which can be appreciated as a favorable one for this therapy group (Fig. 2).

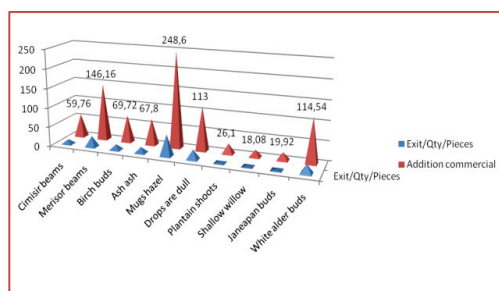


Figure 2 Commercial Addition to anti-inflammatory gemoterapeutic sales
Source: Gemoterapeutic products during the analyzed period

This financial aspect determines the pharmaceutical unit to source natural products, both from domestic manufacturers and from external producers.

The promotion of alternative therapies to allopathic therapies is a way to stimulate the development of research and production of such products at the national pharmaceutical market, but also to stimulate the engagement of the specialized labor force in this field.

In addition to the economic advantages, there are some therapeutic advantages of gemoterapics as follows:

- cellular detoxification by chemical reaction to purify and clean cells;

- supports organ drainage by stimulating the removal of toxins by body fluids such as blood and lymph;

- regenerates dead cells, oxygenates cells, stimulates the functions of various organs and glands, feeds / provides a full spectrum of antioxidants, hormones, enzymes, vitamins, minerals, trace elements, amino acids, rejuvenate organs, skin tissue and cells by stimulating blood and lymphatic activities and by providing antioxidants in the system.

Thus, studies conducted in the field have made it possible to use gemo-therapeutic products as presented for both humans and animals.

CONCLUSIONS

The study of the investigational pharmacy on the release of gemoderivates for the treatment of arthritis, inflammation and antiparasitic activity in both humans and animals influences the research activity on this niche of future pharmacists.

Thus, in addition to the release of medications with and without prescription, pharmacies are also interested in the sale of dietary supplements or other parapharmaceuticals.

If the release of prescription drugs involves delayed settlement of their value by the County Health Insurance House within 60-90 days, the release of OTC and parapharmaceuticals as they are and gemoterapics, provides the pharmacy with additional immediate financial resources.

Thus, cash receipts facilitate payment of obligations to suppliers of goods and services, payment of salaries and their obligations towards the state budget and social security budget.

Supplementing pharmacy incomes from drug delivery with parapharmaceutical product sales, including gemotherapeutic products, ensures the achievement of the objective of each economic entity, namely the realization of profit.

The achievement of the activity of the pharmacy, i.e. the realization of the profit is the only one that ensures the development of an economic entity, the expansion of the patrimony, the increase of the salary of the specialists at the level of the European pharmaceutical market, as well as the provision of quality services to the patients.

In conclusion, the expansion of the gemotherapeutic market in both humans and animals can be an additional source of financial resources for pharmacies, but also a means of developing the pharmaceutical industry at national level, promoting national professional values and developing pharmaceutical research in this field.

As animals are more and more present in people's lives, finding less toxic alternatives to treating their illness has become more and more present in studies exploring the use of plate products.

Studies should also be approached from an economic point of view, correlated with the commercial advantages of the pharmaceutical entities that produce them, as well as with the entities that release these products.

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