Abstract
Speleotherapy, the use of the climate of salt mines and caves, is an accepted but not widely known therapeutic measure in the treatment of chronic respiratory diseases, especially for asthma. The microclimate of some caves and salt mines can beneficially affect respiratory disorders and should be considered as an optimal environment for complex respiratory rehabilitation. Main therapeutic indications of salt mines and caves are represented by respiratory diseases, especially asthma. Asthma is a disease characterized by chronic inflammation of the airways which make them hyperresponsive and change in their architecture, a process called remodeling. This paper shows the international scientific interest for speleotherapy in the last five years. During this period, only 21 uniques articles were found in the selected data bases which were interrogated after the term “SPELEOTHERAPY”.

Key words: Speleotherapy, respiratory diseases, asthma,

Introduction
Today the speleotherapy is recognized as therapy in underground environments of salt mines and caves with natural therapeutic factors for many diseases (Iu.Simionca et al., 2013; Munteanu et al, 2012).

Speleotherapy today is a recognized and effective method of treatment, which is integrated into conventional medicine. At the same time, avalanche-like growth of artificial analogies of speleotherapy can be seen today almost in all countries of Europe. In the majority of cases their effectiveness is just declared. On the basis of general comparative overview of literary data and own scientific researches and practical experience a conclusion was made that according to their curative features, analogies of speleotherapy may be divided into two groups - with the presence of haloaerosol medium and without it. The main criterion for true artificial analogue of speleotherapy is the presence of rock salt aerosol medium. Twenty years experience of haloaerosoltherapy use in Scientific-practical medical Centre "Rehabilitation" in the treatment of more than 50000 patients with bronchopulmonary pathology confirms its high efficiency testified by the objective set of evidence-based diagnostic methods (Lemko, I. S. et all., 2015).

Methodology
Four main research articles Data Bases, respectively ISI WEB OF KNOWLEDGE, CROSSREF, Pubmed and DOAJ were interrogated with the keyword “Speleotherapy” in order to find which relevance has this domain in the scientific literature.

Results:
ISI WEB OF KNOWLEDGE - 7 Records
CROSSREF – 2 Records
PubMed – 9 Records
DOAJ – 3 Records
All the 21 unique articles are listed in the reference part of the present systematic review article.

Discussion
From ISI web of knowledge we found four main articles type, as described below in their abstracts.

One of the papers (Roubal et all., 2017) from ISI web of knowledge deals with a methodology proposed for measuring the concentration of air ions in the environment of speleotherapeutic caves. A specific method for the calculation of spectral ion characteristics and the mode of automatic calibration were proposed and a procedure of automatic measurement in the absence of attendants was set up.
The measuring system is designed for studying and long-term monitoring of the concentration of light negative ions in dependence on climatic conditions and on the mobility of ions occurring in the cave.

The aim of other research (Kendrova et all., 2016) was to determine the effect of Speleotherapy on the quality of life, anxiety and depression in patients with COPD. Design of a Pilot study included 128 patients with CPOD (average age 64.05), examined during a spa treatment in a sanatoriums in the High Tatras. The experimental group (29 patients) completed spa treatment and Speleotherapy in the Belianska Cave. The control group (99 patients) completed a spa treatment without Speleotherapy. All patients were examined on admission and discharge, for an average 20-day treatment stay. They were evaluated on the basis of the quality of life (SGRQ), Beck and Zung, the Spirometric Test (FEV1 and FEV1/FVC) and the 6-minute Walk Test. After the treatment, concerning the patients of the experimental group, within the evaluation of quality of life there was significant improvement in symptoms (p<0.05). There was also statistically significant improvement in anxiety and the six-minute Walk Test (p<0.05). The pilot study shows that spa treatment along with Speleotherapy improves the quality of life and anxiety in patients with COPD. However, there is a need for prolonged study with more patients in order to demonstrate the effectiveness of this therapy.

After another article (Lemko, I. S. et all., 2015), the therapeutic effect of salt mines, in medical terms, were found only in the last decades of the twentieth century. In course of time, Speleotherapy's beneficial effects have been proven, namely: high degree of air purity (sterility, relatively high air humidity (vapor content), vapor condensation favorite content, constant air temperature, low air flow rate, high content of carbon dioxide in the air, high negative ionization (high number of micro ions).

Chronic obstructive pulmonary disease (COPD) is a chronic, progressive disease and is treated with inhaled medication to optimize the patient's lung health through decreasing their symptoms, especially breathlessness. Halotherapy is the inhalation of micronized dry salt within a chamber that mimics a salt cave environment. Recent media reports suggest that this therapy may help with the symptoms of COPD.

The objective of this study was to critically evaluate and summarize the evidence for the use of halotherapy as a treatment for COPD, representing an other review using systematic approach and narrative synthesis related to speleotherapy. Data sources: Cochrane Central Register of Controlled Trials (CENTRAL), PubMed, MEDLINE, EMBASE, CINAHL, and Google Scholar were searched. Two reviewers independently reviewed abstracts and selected eligible studies based on predetermined selection criteria. Of the 151 articles retrieved from databases and relevant reference lists, only one randomized controlled trial met the inclusion criteria. A meta-analysis was unable to be conducted due to the limited number of published studies. Inclusion criteria were subsequently expanded to allow three case-control studies to be included, ensuring that a narrative synthesis could be completed. From the pooled data of the four studies, there were 1,041 participants (661 in the intervention group and 380 in the control group). The assessment of methodological quality raised issues associated with randomization and patient selection. Three themes were identified from the narrative synthesis: respiratory function, quality of life, and medication use.

Themes generated from the narrative synthesis data reflect outcome measures regularly used for interventional research associated with COPD. From this review, recommendations for inclusion of halotherapy as a therapy for COPD cannot be made at this point and there is a need for high quality studies to determine the effectiveness of this therapy (Rashleigh et all., 2014)

Conclusions
Speleotherapy is a valuable treatment method for asthma and other respiratory problems but only few studies are found in the international data bases, which reflects the specificity of this domain. On the other hand, fundamental studies on laboratory animals and on in vitro cell cultures demonstrated the efficacy and utility of speleotherapy.

From the total of 21 unique articles, a quarter come from Romania which is of special imprtance, in relation with the interest for this particular therapeutic environment in this country.

Romania has a huge potential in speleotherapy due to many salt mines and caves which can be found in this country.
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