Discussion

Social Appropriation of Knowledge and its contributions to the prevention of cutaneous leishmaniasis in rural contexts

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BACKGROUND

Cutaneous leishmaniasis (CL) is a neglected infectious endemic disease that is transmitted through the bite of a vector insect (sandfly) of the Lutzomyia genus,1,2 typical of rural geographical territories,3,4 and causes disfiguring skin ulcers and disabilities. It is estimated that CL affects between 600 000 and 1 000 000 people a year around the world, mainly in the Americas, the Mediterranean basin, the Middle East and Central Asia. Eighteen of the 21 countries that make up the Latin American (LA) region are considered endemic areas for this neglected tropical disease. Colombia is one of the countries that reports the majority of global cases with 6161 in 2020 and has the second highest number of cases in the Americas, after Brazil.5,6

This disease is associated with poor socioeconomic conditions,3 low coverage of access to basic sanitation services and difficulties in accessing health services. Despite the various efforts of public health systems and leishmaniasis surveillance and control programmes,7 the implemented strategies are still challenged with being timely, efficient and sustainable.8 Additionally, barriers caused by geographical conditions and sociocultural aspects such as unawareness about the subject persist.8,9

This scenario highlights the importance of proposing situated initiatives, based on the communities in favour of strengthening Social Appropriation of Knowledge (SAK) processes for the prevention and control of the disease.

The SAK as an alternative

The SAK is an LA proposal that has been conceptually and methodologically configured from different disciplines and fields of action.10,11 This experience understands SAK as a transfer and dialogue of knowledge process between different sectors of society to bring new knowledge to the communities participating in the process to answer their local needs.12

In order to facilitate the approach to this proposal, we cite below two experiences that show how SAK is strengthening in the region to empower communities and promote their participation in processes for the generation of new knowledge and local development. The first experience evidences the development of spaces for dialogue, participation and educommunication to promote the understanding and democratisation of scientific knowledge.13 The second experience focuses on a process of social innovation and SAK around the consolidation of agroecological family gardens to promote sustained production of food for self-consumption and other social benefits.14

The SAK is closely linked to social innovation in health (SIH); they can even be understood as complementary processes. SIH is defined as a ‘novel solution (process, product, practice, market mechanism) developed in response to priority health needs within a geographical context and applied by different intersectoral organisations—solutions that enable more inclusive, affordable and effective healthcare’.15 Some of its main
Processes and systems

Components are participation and community empowerment, therefore it is directly related to SAK processes. Both SIH and the SAK create spaces for dialogue, trust and collective construction that lead to processes of understanding, appropriation and empowerment. This allows for implemented solutions to be sustainable both for and from the communities themselves so that they can generate transformation in real contexts in favour of health and well-being.

This piece highlights fundamental aspects of the SAK and its importance in and relationship with social innovation/transformation in health based on an experience of SAK in the context of CL in endemic areas in Colombia.

A SAK experience for the prevention, management and control of CL

Our experience was based on a bidirectional and horizontal process that convened rural communities from three municipalities in Colombia to engage in dialogue and exchange their knowledge and experiences with the scientific evidence generated on CL. Trustful, equal, and inclusive environments were promoted to transform their health conditions, motivate their empowerment, and generate community well-being.

In order to involve and empower communities affected by CL in the processes of disease control and prevention, the perspective of community-based participatory research was used. There were 32 participants from three Colombian municipalities considered endemic areas: Rovira (Tolima), Pueblo Rico (Risaralda) and Tumaco (Nariño) who were among local health leaders, health personnel from institutions, decision-makers and leaders of rural communities. They were invited to participate in an initiative involving collaborative construction of processes and SAK communication and educational products using a SIH perspective (see figure 1). When approaching the community, previous work that CIDEIM had developed over several years was integral in facilitating this process.

The methodological process was configured at four moments with specific objectives and articulated among the group through voluntary participation and
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therefore, it is clear there is an evidence gap of how sak is present in the region (see figure 2).

the strategies proposed by the interdisciplinary team, made up of professionals from the social, health and communication sciences, aimed to combine knowledge and academic experiences with the know-how and daily practices of the communities to promote participation and empowerment around health. the cascade effect was key in this process to ensure that the training carried out with the participating leaders could reach other community groups, while strengthening leadership, participation and empowerment of leaders in communities and institutions.

main challenges of the sak process and its relationship with sih

key lessons related to the sak and its importance in the search for social transformation in health are presented below.

the sak as an approach to community work in health, a concept that is still emerging

to overcome previously identified healthcare service access barriers, it is necessary to think of alternative solutions that consider the communities affected by the health problem through applying the knowledge generated by the researchers to the context from which it was extracted. our experience focuses on a sak exercise, which from the perspective of fernando chaparro and other authors, is understood as a process of communication and intervention between different sectors to generate knowledge and motivate changes through participation, horizontal communication and dialogue of knowledge.

main challenges of the sak process: theory versus practice

the sak and its importance in la have motivated the formulation of public policies, especially in non-industrialised countries that present gaps at the economic, political and social level. this progress, although encouraging because it inspires and institutionalises community involvement and empowerment in the development of various projects, also complicates their development as fully participatory and horizontal processes.

our experience reflects this process in the case of colombia. the ministry of science and technology in colombia, ‘minciencias’, encourages the application of sak through calls for proposals as part of the national policy for the promotion of research and innovation that include specific sak components. for non-specific calls for proposals, they suggest it as a transversal component. the value that community participation and the ‘return of knowledge’ to citizens has in studies in a variety of areas such as health is striking. this openness allowed the sak to be applied to a biomedical cl project. it aimed to estimate under-reporting and underascertainment of cl, as well as the effectiveness of the standard treatment for cl in three municipalities in colombia using the mhealth-assisted active case detection.

in this project, the dialogue emerged from the academic circle and researchers in order to link communities and their leaders together to understand the study’s findings within their contexts.

although from a theoretical point of view it is argued that the participation of all sectors, including civil society, is one of the main components in the entire process, the institutional framework contradicts this by suggesting specific activities and deliverables as a condition for financing. in our experience, the above required turning to the context analysis that researchers had been carrying out in the three municipalities to maintain community-based planning. the participating leaders were connected to validate and qualify the initial planning in a timely manner, achieving active participation in the conception, development and use of educational products. they represented the main actors in the sak process within their communities.

the difference in contexts of the three participating communities represented one of the greatest challenges throughout the experience. despite the contribution of the context analysis that was incorporated as a reference, a key question for the process emerged: how can three different cultural contexts be expressed in order to build products and processes that preserve each of their separate identities?

from the beginning of the project, the idea was to generate two co-created products with the communities: a pedagogical kit containing a set of cards and manual to guide different educational strategies on elements that the communities need to know about the diagnosis, treatment and prevention of cl; and the planning of three radio segments about the prevention and symptoms of this disease to be broadcast on community stations and through social networks.

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To accomplish this, independent work with each of the communities was carried out and their differential...
and similar factors were then analysed. One of the main findings was the importance of language in this type of participatory process, which is why the inclusion of quotes from each community was decided on along with the addition of strategically placed drawings and images that would allow a greater community–product connection.

One of the main elements was the inclusion of characters with certain physical characteristics and in environmental settings proposed by leaders in accordance with the communities. This attempted to generate balance and create scenes in which key aspects of Rovira, Pueblo Rico and Tumaco came together. This graphic component was also a fundamental factor because community literacy skills in Pueblo Rico are less developed than in the other areas. Therefore, the inclusion of sufficient text and images was vital to achieve a true understanding of the manual’s content in the three communities. As Pabón states, ‘it is not enough just to inform, a higher level of understanding is necessary,’ also under the premise that knowledge must be dynamic in order to facilitate comprehension. This process of understanding is directly related to empowerment, a process that intends to provide communities with tools and knowledge, so that they are able to adapt to their context and come up with their own solutions on their own, be it production, habitat, health or exercise. This in turn results in sustainability, allowing for changes or new practices to be maintained over time, a concept that undoubtedly brings SAK and SIH closer together.

Empowerment and sustainability were important topics in this experience, since they are what allow appropriation to go beyond just acquiring information on CL to actually promoting prevention and incorporating self-care behaviours into daily lives. Pabón expresses that ‘appropriation’ implies ‘doing what has been learned on their own, and recognizing the importance of the environment in said process.’

From practice, it is valid to question whether it is possible to ensure that communities manage to understand, give new meaning to and appropriate this new knowledge in order to incorporate it into their daily lives. This experience was proposed as a health education exercise that emphasises the importance of context-based disease prevention practices. Therefore, educational processes that permeate community members’ daily lives and decentralise the power and knowledge of researchers and project facilitators are necessary in the search for this knowledge. The SAK strategy proposed seeks to articulate different levels of community relations using a model or cascade effect, in which the community works hand in hand with the facilitators and public sector actors of the participating municipalities.

The SAK and its relationship with SIH

SIH is an emerging area that, thanks to the work of SIHI Global, reached LA in 2017. It is an approach that, like the SAK, is still positioning itself and building a conceptual and methodological platform. Usually, this development occurs in response to local challenges and can be promoted by community members who are aware of their own current opportunities and needs. This can also be based on by external figures who employ community involvement to generate solutions, like the ‘Mamás del Río’ case.

In both forms of development, one of the greatest challenges is related to linking with and articulating ideas to the communities. This aims to achieve a knowledge dialogue, understand their needs and contexts, establish trusting relationships to attain a collective construction of solutions and empower them, overall contributing to sustainability.

The SAK occurs at this point which can be understood as a complementary concept of the SIH processes. From its methodology to the creation of intersectoral links through horizontal communication, it supports and contributes to collectively creating and generating processes of empowerment, which are fundamental to achieve social transformation in health. In its process of returning the knowledge generated in health research to the communities and their leaders, the SAK can lead to evidence-based participatory processes in order for initiatives or solutions to specific health problems to be generated, as is the case for CL.

In conclusion, the SAK can contribute to the strengthening of communities in different contexts in low/middle-income countries. Knowledge uptake in communities allowed for their empowerment and participation based on the dialogue of knowledge and in coherence with their knowledge needs. In this experience, collaborative work with local health entities, leaders and researchers enhanced community engagement for social transformation in health, the ultimate goal of SIH. Community involvement in this project could optimise prevention, timely care and management of the disease in endemic areas.
impact. The initiative is connected to the Young Researchers Program that aims to train young, recently graduated professionals who are recognised as researchers of excellence to increase national capacity in this field. TDR, the Special Programme for Research and Training in Tropical Diseases, in the framework of the project Building Capacity and inter-institutional collaboration for research in social innovation in health the LAC region: strengthening the Hub and development of a sub-regional node in Central America. (PO: 202541748)

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Author note The project was led by CIIDEIM, a research center focused on infectious diseases of poverty and Social Innovation in Health (SIH). It linked two professionals in Social Communication and Journalism together to form an inter-disciplinary team committed to enhance pedagogical skills, knowledge management and Social Appropriation of Knowledge (SAK) around cutaneous leishmaniasis (CL) while working together with community health leaders from three rural municipalities of Colombia: Rovira, Pueblo Rico and Tumaco. The entire process involved collaborative work and co-creation with leaders and health personnel from the Health Service Provider Institutions in the context of the communities, subsequently achieving a cascade effect in the transmission of new knowledge about CL to families and specific groups of the participating communities.

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REFERENCES
Processes and systems


