# **Online Annex. Evidence to Recommendation**

### Question 1.

### WHAT IS THE EFFICACY AND SAFETY OF THE DIFFERENT SYSTEMIC AND LOCAL TREATMENTS FOR THE MANAGEMENT OF PATIENTS **DIAGNOSED WITH CUTANEOUS LEISHMANIASIS IN THE AMERICAS?**

Problem Is the problem a priority?		
Judgement	Evidence	Additional considerations
O No O Probably no O Probably yes O Yes O Varies O Don't know  Desirable Effects How substantial are the desirable anticipated effects?		The panel considers the question is a priority given the burden of the disease in the Americas, especially for cutaneous leishmaniasis.
Judgement	Evidence	Additional considerations
O Trivial O Small O Moderate O Large O Varies O Don't know	The overall evidence shows a moderate effect of the interventions on adult and pediatric patients for cure at least 3 months after treatment compared with placebo or other treatments:  Intralesional antimony, RR 5.00; 95% CI (1.94, 12.89)  Meglumine antimoniate, RR 4.23; 95% CI (0.84, 21.38)  Miltefosine, RR 2.18; 95% CI (1.28, 3.71)  Thermotherapy, RR 0.80; 95% CI (0.68, 0.95)  Paromomycin, RR 2.38; 95% CI (1.50, 3.80).	





Judgement	Evidence	Additional considerations
O Large  Moderate  Small  Trivial  Varies  Don't know	<ul> <li>Severe side effects (SE) in the meglumine antimoniate (MA) group (RR 1.51; 95% CI [1.17, 1.96], 134 patients) compared with placebo.</li> <li>Miltefosine probably produces more SE (RR 3.96; 95% CI [1.49, 10.48]) compared with placebo.</li> <li>Four participants developed moderately severe local cellulitis with thermotherapy compared with placebo.</li> <li>It was reported that 58% of participants who received topical paromomycin had SE that disappeared one week after treatment.</li> </ul>	The panel recognizes the toxicity of some drugs as well as the possible side effects. However, there are few options for patients, so clinicians should be careful in the treatment of the patients.
Certainty of Evidence What is the overall certainty of the evidence	e of effects?	
Judgement	Evidence	Additional considerations
O Very low C Low Moderate High No included studies	The overall certainty of evidence is low and very low due to the risk of bias in the studies (selection bias, lack of blinding, detection bias), very serious imprecision (small sample sizes and confidence intervals exceeding 25% of the estimator) and inconsistency in the findings. Only moderate certainty was reported for the comparison of meglumine antimoniate with placebo for the outcome of cure of at least 3 months and side effects.	

Values Is there important uncertainty about or variability in how much people value the main outcomes?		
Judgement	Evidence	Additional considerations
<ul> <li>○ Important uncertainty or variability</li> <li>○ Possibly important uncertainty or variability</li> <li>○ Probably no important uncertainty or variability</li> <li>○ No important uncertainty or variability</li> </ul>	A qualitative study in three Colombian cities near the Amazon reported that more than 60% of the population had scars consistent with cutaneous leishmaniasis and had not sought treatment in health centers because of lack of knowledge about the possibility of obtaining adequate treatment in a health service institution. Instead they went to pharmacies or neighbors to use topical creams. There is a belief (in conflict zones) that leishmaniasis is the "guerrilla's disease" and, therefore, that the treatment is controlled by the army, or they may have problems with the authorities (62). Another study reports that as cutaneous leishmaniasis is not a disabling disease, and the injury usually does not hurt (unless infected), affected people do not seek medical attention (63). Several studies also report that many patients go to healers or use traditional medicine with plants or caustic remedies as the first option for cutaneous leishmaniasis treatment, because there is a negative perception of treatment with pentavalent antimonials due to pain, fear of injections, and side effects. Also, they suffer the consequences of social stigma due to their association of leishmaniasis with armed conflict and contexts of poverty and social vulnerability. It is also reported that patients may self-medicate when they have access to medications, which can lead to using ineffective therapeutic doses and to increased side effects (63). Another reason for not attending health services as a first option is the difficulty of access in terms of distance, costs, and bad experiences reported by family members or neighbors (62).	The panel considers that patients would prefer oral drugs in lower dose especially children.  Experts report that children present pain, fear of injections, and cryin so it is recommended that the first option be oral treatment and not systemic treatments (62).
Balance of Effects Does the balance between desirable and undesirable effec	ets favor the intervention or the comparison?	
ludgement	Fyidence	Additional considerations

Judgement	Evidence	Additional considerations
O Favors the comparison		The panel considers that the benefits outweigh the risks.
O Probably favors the comparison		
O Does not favor either the intervention or the comparison		
O Probably favors the intervention		
O Favors the intervention		
Ovaries		
O Don't know		

Resources Required  How large is the resource requirements (costs)?		
Judgement	Evidence	Additional considerations
<ul> <li>○ Large costs</li> <li>○ Moderate costs</li> <li>○ Negligible costs and savings</li> <li>○ Moderate savings</li> <li>○ Large savings</li> <li>○ Varies</li> <li>○ Don't know</li> </ul>	A 2017 cost-analysis study compared systemic pentavalent antimonials with intralesional antimonials as the first line of cutaneous leishmaniasis treatment in Bolivia. Intralesional pentavalent antimonials presented a saving of US\$ 248 per patient treated according to the payment made by the Ministry of Health and US\$ 688 saved from the society point of view (59).	The panel reports that the management of leishmaniasis can involve significant costs for patients due to multiple and expensive trips to the health service for the administration of medications, given the long duration of treatment.  Sometimes, systemic treatment is not administered in rural health centers, so patients and their companions must incur higher costs, which can lead to less adherence to treatment. For institutions providing health services, costs arise in the payment of fees for trained personnel or investment in training, as well as inputs such as syringes to provide adequate care to patients. It was identified that there is a high turnover of health personnel, so training of new professionals is necessary, increasing the costs of providing services.
Certainty of Evidence of Required Resources What is the certainty of the evidence of resource requiremen	ts (costs)?	
Judgement	Evidence	Additional considerations
O Very low Low Moderate High No included studies	The certainty of the evidence is low.	
Cost-Effectiveness  Does the cost-effectiveness of the intervention favor the inte	rvention or the comparison?	
Judgement	Evidence	Additional considerations
Favors the comparison  Probably favors the comparison  Does not favor either the intervention or the comparison  Probably favors the intervention  Favors the intervention  Varies  No included studies	Another cost-effectiveness study evaluated intralesional meglumine antimoniate therapy compared to intravenous therapy in the Brazilian health system, reporting that the costs per cured patient were US\$ 330.81 for intralesional and US\$ 494.16 for intravenous per patient in 2018. The incremental cost-effectiveness ratio showed that intralesional meglumine antimoniate can result in a US\$ 864.37 saving for each additional patient cured (60). One study evaluated the cost-effectiveness of thermotherapy compared to meglumine antimoniate in cutaneous leishmaniasis treatment. It was found that the cost of meglumine antimoniate per patient was \$66,807 Colombian pesos compared to \$14,079 for thermotherapy (61).	

Equity What would be the impact on health equity?		
Judgement	Evidence	Additional considerations
OReduced		Some interventions such as thermotherapy would be available mainly in
O Probably reduced		large and medium-sized cities, and access would be more limited for people in remote areas.
O Probably no impact		people in remote areas.
O Probably increased		
OIncreased		
Ovaries		
O Don't know		
Acceptability Is the intervention acceptable to key stakeholders?		
Judgement	Evidence	Additional considerations
O <sub>No</sub>		Most interventions would be accepted by the guideline users.
O Probably no		
O Probably yes		
O yes		
Ovaries		
O Don't know		
Feasibility Is the intervention feasible to implement?		
Judgement	Evidence	Additional considerations
O <sub>No</sub>		Most interventions could be implemented.
O Probably no		
O Probably yes		
Oyes		
Ovaries		
O Don't know		

### **QUESTION 2.**

# WHAT IS THE EFFICACY AND SAFETY OF THE DIFFERENT PHARMACOLOGICAL TREATMENTS FOR THE MANAGEMENT OF PATIENTS DIAGNOSED WITH MUCOSAL LEISHMANIASIS IN THE AMERICAS?

Problem Is the problem a priority?		
Judgement	Evidence	Additional considerations
○ No ○ Probably no ○ Probably yes ○ Yes ○ Varies ○ Don't know		The panel considers the question is a priority given the burden of the disease in the Americas.
Desirable Effects How substantial are the desirable anticipated effects?		
Judgement	Evidence	Additional considerations
O Trivial O Small O Moderate O Large O Varies O Don't know	<ul> <li>The overall evidence shows a moderate effect of the interventions on adult and pediatric patients.</li> <li>Pentavalent antimonial: we identified two studies with 89 participants with no differences in cure rates, doses, or effect on any form of leishmaniasis (p &gt; 0.05).</li> <li>Oral pentoxifylline had a significant synergistic effect with IV sodium stibogluconate (IV SS) of 20 mg/kg/day for 30 days in <i>L. braziliensis</i> (RR 1.66; 95% CI [1.03, 2.69], 23 patients).</li> <li>Miltefosine versus pentavalent antimonials in participants with mucosal leishmaniasis without reporting differences in cure rates at 3 months (RR 1.04; 95% CI [0.81, 1.34]).</li> </ul>	

Undesirable Effects How substantial are the undesirable anticipated effects?		
Judgement	Evidence	Additional considerations
<ul> <li>○ Large</li> <li>○ Moderate</li> <li>○ Small</li> <li>○ Trivial</li> <li>○ Varies</li> <li>○ Don't know</li> </ul>	<ul> <li>IV sodium stibogluconate (IV SS) for 28 days with IV SS for 40 days. No discontinuation of treatment was reported. Side effects were arthralgias, myalgias, itching, rash, nausea, anorexia, abdominal pain, cough, and headache in patients treated for 40 days.</li> <li>Gastrointestinal effects (nausea, vomiting, and epigastric pain) were higher in patients receiving miltefosine (RR 2.97; 95% CI [1.05, 8.38]) compared with meglumine antimoniate.</li> <li>Mild adverse effects were most frequently observed in the pentoxifylline group.</li> </ul>	The panel recognizes the toxicity of some drugs as well as the possible side effects. However, there are few options for patients, so clinicians should be careful in the treatment of the patients.
Certainty of Evidence What is the overall certainty of the evidence of effects?		
Judgement	Evidence	Additional considerations
<ul><li>○ Very low</li><li>○ Low</li><li>○ Moderate</li><li>○ High</li><li>○ No included studies</li></ul>	The overall certainty of evidence is low and very low due to the risk of bias in the studies (selection bias, lack of blinding, detection bias), and very serious imprecision (small sample sizes and confidence intervals exceeding 25% of the estimator).	
Values Is there important uncertainty about or variability in how much	people value the main outcomes?	
Judgement	Evidence	Additional considerations
O Important uncertainty or variability O Possibly important uncertainty or variability O Probably no important uncertainty or variability O No important uncertainty or variability	Patients with mucosal or mucocutaneous leishmaniasis report feeling low self-esteem because this clinical form can cause deformities or mutilations, so they prefer treatments that are shorter, and it is important to consider the patient's acceptance so that adherence to treatment is increased. A few studies also report that many patients go to healers or use traditional medicine with plants or caustic remedies as the first option for leishmaniasis treatment, because there is a negative perception of pentavalent antimonials treatment due to pain, fear of injections, and side effects (61, 68).	The panel considers that patients would prefer oral drugs in lower dose, especially children.

#### **Balance of Effects** Does the balance between desirable and undesirable effects favor the intervention or the comparison? Judgement **Evidence** Additional considerations Experts considered the combination of pentavalent antimonials with O Favors the comparison The panel considers that the benefits outweigh the risks. pentoxifylline to be a good alternative for patients. Also, it is recognized that O Probably favors the comparison there is very little evidence in mucosal leishmaniasis, but the therapeutic O Does not favor either the intervention or the comparison options are those currently used in the Region with better results. O Probably favors the intervention O Favors the intervention Ovaries O Don't know **Resources Required** How large are the resource requirements (costs)? Judgement **Evidence** Additional considerations O Large costs Experts report that liposomal amphotericin B is expensive in the countries of the Region, when not acquired with subsidized prices from O Moderate costs the agreement with the World Health Organization. Therefore, along with O Negligible costs and savings the availability of other alternatives and evidence, it is currently not O Moderate savings recommended for patients with mucosal leishmaniasis. Pentavalent antimonials and pentamidine isethionate are included in the benefit O Large savings plans of most countries. Costs may be incurred for patients, especially in Ovaries rural areas, because they must make several trips outside their O Don't know geographic area to receive the treatment, which generally requires hospitalization.

Certainty of Evidence of Required Resources What is the certainty of the evidence of resource requirements (costs)?		
Judgement	Evidence	Additional considerations
O Very low		
OLow		
OModerate		
OHigh		
O No included studies		
Cost-Effectiveness  Does the cost-effectiveness of the intervention favor the interve	ention or the comparison?	
Judgement	Evidence	Additional considerations
O Favors the comparison		
O Probably favors the comparison		
O Does not favor either the intervention or the comparison		
O Probably favors the intervention		
O Favors the intervention		
Ovaries		
O No included studies		
Equity What would be the impact on health equity?		
Judgement	Evidence	Additional considerations
OReduced		Some interventions (systemic delivery) would be available mainly in
O Probably reduced		large and medium-sized cities, and access would be more limited for people in remote areas.
O Probably no impact		people in remote areas.
O Probably increased		
OIncreased		
Ovaries		
O Don't know		

Acceptability Is the intervention acceptable to key stakeholders?		
Judgement	Evidence	Additional considerations
O <sub>No</sub>		Most interventions would be accepted by the guideline users.
O Probably no		
O Probably yes		
Oyes		
Ovaries		
O Don't know		
Feasibility Is the intervention feasible to implement?		
Judgement	Evidence	Additional considerations
O <sub>No</sub>		Most interventions could be implemented.
O Probably no		
O Probably yes		
Oyes		
Ovaries		
O Don't know		

### **QUESTION 3.**

# WHAT IS THE EFFICACY AND SAFETY OF THE DIFFERENT PHARMACOLOGICAL TREATMENTS FOR THE MANAGEMENT OF NON-IMMUNOCOMPROMISED PATIENTS DIAGNOSED WITH VISCERAL LEISHMANIASIS IN THE AMERICAS?

Problem Is the problem a priority?		
Judgement	Evidence	Additional considerations
O No Probably no Probably yes Yes Varies Don't know		The panel considers the question is a priority given the burden of the disease in the Americas.
Desirable Effects  How substantial are the desirable anticipated effects?		
Judgement	Evidence	Additional considerations
O Trivial O Small O Moderate O Large	No differences were reported between the groups compared with meglumine antimoniate: LAB (9.7%; 95% CI [-0.28, 19.68]; p = 0.06) and liposomal amphotericin B plus meglumine antimoniate (6.4%; 95% CI [-3.93, 16.73]; p = 0.222) regarding differences in cure rate.	
O Varies O Don't know	An open randomized controlled trial evaluated the efficacy and safety of N-methyl glucamine antimoniate (20 mg/kg/day for 20 days) and amphotericin B deoxycholate (1 mg/kg/day for 14 days) in 101 pediatric patients (6 months to 12 years old) and adults newly diagnosed with visceral leishmaniasis (VL) without signs of severe disease. No differences in complete cure were found between the groups (RR 1.00; 95% CI [0.91, 1.10]) nor for relapse at 180 days (RR 7.54; 95% CI [0.15, 378]).	

Undesirable Effects How substantial are the undesirable anticipated effects?		
Judgement	Evidence	Additional considerations
O Large O Moderate O Small O Trivial O Varies O Don't know	High toxicity was reported in amphotericin B deoxycholate (1 mg/kg/day for 14 days) that led to the end of the study for this group of patients.  Liposomal amphotericin B monotherapy has a lower frequency of side effects.	The panel recognizes the toxicity of some drugs as well the possible side effects. However, there are few options for patients, so clinicians should be careful in their treatment.
Certainty of Evidence What is the overall certainty of the evidence of effects?		
Judgement	Evidence	Additional considerations
O Very low O Low O Moderate O High O No included studies	The overall certainty of evidence is low and very low due to the risk of bias in the studies (selection bias, lack of blinding, detection bias), and very serious imprecision (small sample sizes and confidence intervals exceeding 25% of the estimator).	
Values Is there important uncertainty about or variability in how m	uch people value the main outcomes?	
Judgement	Evidence	Additional considerations
O Important uncertainty or variability O Possibly important uncertainty or variability O Probably no important uncertainty or variability O No important uncertainty or variability	We found no evidence of visceral leishmaniasis patient preferences in non-immunocompromised patients in the Americas.	The Guideline Development Group panel considers that patients would prefer the most effective therapeutic alternative with fewer side effects and shorter treatment.

Balance of Effects Does the balance between desirable and undesirable effects favor the intervention or the comparison?		
Judgement	Evidence	Additional considerations
O Favors the comparison O Probably favors the comparison O Does not favor either the intervention or the comparison O Probably favors the intervention O Favors the intervention O Varies O Don't know  Resources Required	The evidence supports the use of liposomal amphotericin B for being safer, which also helps to decrease the number of treatment interruptions. It is important to note that, once toxicity has been overcome, patients are completely cured.	The panel considers that the benefits outweigh the risks.
How large are the resource requirements (costs)?		
Judgement	Evidence	Additional considerations
O Large costs O Moderate costs O Negligible costs and savings O Moderate savings O Large savings O Varies O Don't know		The Guideline Development Group panel considers that liposomal amphotericin B is expensive when acquired nationally and still with little access in the countries of the Region, but it is the best therapeutic strategy for adult and pediatric patients in the Americas.
Certainty of Evidence of Required Resources What is the certainty of the evidence of resource requirements (costs)?		
Judgement	Evidence	Additional considerations
O Very low O Low O Moderate O High O No included studies		

# Cost-Effectiveness Does the cost-effective

O Increased
O Varies
O Don't know

Does the cost-effectiveness of the intervention favor the intervention or the comparison?

Does the cost-ellectiveness of the intervention ravor the intervention of the companson:			
Judgement	Evidence	Additional considerations	
Favors the comparison Probably favors the comparison Does not favor either the intervention or the comparison Probably favors the intervention Favors the intervention Varies No included studies	A cost-effectiveness study conducted in Brazil evaluated meglumine antimoniate (MA), liposomal amphotericin B (LAB), and their combination for the treatment of visceral leishmaniasis. LAB was more cost-effective, followed by the MA plus LAB combination. When comparing LAB and MA, a saving of US\$ 278.56 was reported for LAB for each therapeutic failure avoided, US\$ 26.88 for each day of hospitalization, and US\$ 89.88 for each visceral leishmaniasis case cured (72).		
Equity What would be the impact on health equity?			
Judgement	Evidence	Additional considerations	
Reduced Probably reduced Probably no impact Probably increased		Some interventions (systemic delivery) would be available mainly in large and medium-sized cities, and access would be more limited for people in remote areas.	

Acceptability Is the intervention acceptable to key stakeholders?		
Judgement	Evidence	Additional considerations
O <sub>No</sub>		Most interventions would be accepted by the guideline users.
O Probably no		
O Probably yes		
Oyes		
Ovaries		
O Don't know		
Feasibility Is the intervention feasible to implement?		
Judgement	Evidence	Additional considerations
O <sub>No</sub>		Most interventions could be implemented.
O Probably no		
O Probably yes		
Oyes		
Ovaries		
O Don't know		

## **QUESTION 4.**

# WHAT IS THE EFFICACY AND SAFETY OF THE DIFFERENT PHARMACOLOGICAL TREATMENTS FOR THE MANAGEMENT OF IMMUNOCOMPROMISED PATIENTS DIAGNOSED WITH VISCERAL LEISHMANIASIS IN THE AMERICAS?

Problem Is the problem a priority?		
Judgement	Evidence	Additional considerations
O <sub>No</sub>		The panel considers the question is a priority given the burden of the
O Probably no		disease in the Americas.
O Probably yes		
○Yes		
Ovaries		
O Don't know		
Desirable Effects How substantial are the desirable anticipated effects?		
Judgement	Evidence	Additional considerations
OTrivial	Two clinical trials evaluated high doses of liposomal amphotericin B (3 mg/kg/day)	
Osmall	compared with standard doses of pentavalent antimonials in visceral leishmaniasis	
O Moderate	patients infected with HIV. No differences were reported in overall cure (RR 0.96; 95% CI [0.72, 1.29]).	
OLarge	10,72, 112,73,	
Ovaries		
O Don't know		

Undesirable Effects How substantial are the undesirable anticipated effects?			
Judgement	Evidence	Additional considerations	
O Large O Moderate O Small O Trivial O Varies O Don't know	Two clinical trials evaluated high doses of liposomal amphotericin B (3 mg/kg/day) compared with standard doses of pentavalent antimonials in visceral leishmaniasis patients infected with HIV. No differences were reported in treatment abandonment (RR 1.28; 95% CI [0.02, 69.15]), death (RR 0.57; 95% CI [0.10, 3.36]), or side effects (RR 0.60; 95% CI [0.11, 3.39]).	The panel recognizes the toxicity of some drugs as well as the possible side effects. However, there are few options for patients, so clinicians should be careful in their treatment.	
Certainty of Evidence What is the overall certainty of the evidence of effects	s?		
Judgement	Evidence	Additional considerations	
O Very low O Low O Moderate O High O No included studies	The certainty of the evidence is very low due to risk of bias, indirect evidence, heterogeneity, and imprecision.		
Values Is there important uncertainty about or variability in how much people value the main outcomes?			
Judgement	Evidence	Additional considerations	
O Important uncertainty or variability O Possibly important uncertainty or variability O Probably no important uncertainty or variability O No important uncertainty or variability	We found no evidence of visceral leishmaniasis patient preferences in immunocompromised patients in the Americas.	The guideline development group panel considers that patients would prefer the most effective therapeutic alternative with fewer side effects and shorter treatment.	

#### **Balance of Effects** Does the balance between desirable and undesirable effects favor the intervention or the comparison? Judgement Evidence Additional considerations The panel considers that amphotericin B has less toxicity than pentavalent O Favors the comparison antimonials, so these should be used in immunocompromised patients O Probably favors the comparison with visceral leishmaniasis. O Does not favor either the intervention or the comparison O Probably favors the intervention O Favors the intervention Ovaries O Don't know **Resources Required** How large are the resource requirements (costs)? Judgement Evidence Additional considerations The Guideline Development Group panel considers that liposomal O Large costs amphotericin B is expensive when acquired nationally and still with O Moderate costs little access in the countries of the Region, but it is the best therapeutic O Negligible costs and savings strategy for adult and pediatric patients in the Americas. O Moderate savings O Large savings O Varies O Don't know

Certainty of Evidence of Required Resources What is the certainty of the evidence of resource requirements (costs)?		
Judgement	Evidence	Additional considerations
O Very low		
OLow		
O Moderate		
OHigh		
O No included studies		
Cost-Effectiveness  Does the cost-effectiveness of the intervention favor the inte	ervention or the comparison?	
Judgement	Evidence	Additional considerations
O Favors the comparison		
O Probably favors the comparison		
O Does not favor either the intervention or the comparison		
O Probably favors the intervention		
O Favors the intervention		
Ovaries		
O No included studies		
Equity What would be the impact on health equity?		
Judgement	Evidence	Additional considerations
OReduced		Some interventions would be available mainly in large and medium-
O Probably reduced		sized cities, and access would be more limited for people in remote areas.
O Probably no impact		
O Probably increased		
OIncreased		
Ovaries		
O Don't know		

Acceptability Is the intervention acceptable to key stakeholders?		
Judgement	Evidence	Additional considerations
O <sub>No</sub>		Most interventions would be accepted by the guideline users.
O Probably no		
O Probably yes		
Oyes		
Ovaries		
O Don't know		
Feasibility Is the intervention feasible to implement?		
Judgement	Evidence	Additional considerations
O <sub>No</sub>		Most interventions could be implemented.
O Probably no		Difficulties will be encountered in accessing liposomal amphotericin B,
O Probably yes		but it is hoped that access can be provided by strengthening drug
Oyes		production and distribution policies.
Ovaries		
O Don't know		

### **QUESTION 5.**

# WHAT IS THE EFFICACY AND SAFETY OF SECONDARY PROPHYLAXIS FOR THE MANAGEMENT OF IMMUNOCOMPROMISED PATIENTS DIAGNOSED WITH VISCERAL LEISHMANIASIS IN THE AMERICAS?

Problem Is the problem a priority?		
Judgement	Evidence	Additional considerations
O No O Probably no O Probably yes O Yes O Varies O Don't know  Desirable Effects How substantial are the desirable anticipated effects?		The panel considers the question is a priority given the burden of the disease in the Americas.
Judgement	Evidence	Additional considerations
O Trivial O Small O Moderate O Large O Varies O Don't know	One clinical trial was selected that evaluated the efficacy of liposomal amphotericin B (3 mg/kg/day) compared with not performing secondary prophylaxis treatment in 17 Spanish patients with VL–HIV coinfection. 50% of participants remained free of VL events at one year of follow-up (95% CI [15.7, 84.3]) in the amphotericin B group and 22.2% in the untreated group (95% CI [2.8, 60]) ( $p = 0.141$ ) (75).	

Undesirable Effects How substantial are the undesirable anticipated effects?			
Judgement	Evidence	Additional considerations	
<ul> <li>○ Large</li> <li>○ Moderate</li> <li>○ Small</li> <li>○ Trivial</li> <li>○ Varies</li> <li>○ Don't know</li> </ul>	The amphotericin B group had more mild side effects (88%), which were tolerated by participants, compared to the control group (33%) (p = 0.0032). The certainty of the evidence is very low due to risk of bias and inaccuracy (75).	The panel recognizes the toxicity of some drugs as well as the possible side effects. However, there are few options for patients, so clinicians should be careful in their treatment.	
Certainty of Evidence What is the overall certainty of the evidence of effects?			
Judgement	Evidence	Additional considerations	
O Very low O Low O Moderate O High O No included studies	The certainty of the evidence is very low due to risk of bias, indirect evidence, heterogeneity, and imprecision.		
Values Is there important uncertainty about or variability in how much people va	alue the main outcomes?		
Judgement	Evidence	Additional considerations	
O Important uncertainty or variability O Possibly important uncertainty or variability O Probably no important uncertainty or variability O No important uncertainty or variability	We found no evidence of visceral leishmaniasis patient preferences in immunocompromised patients in the Americas.	The Guideline Development Group panel considers that patients would prefer the most effective therapeutic alternative with fewer side effects and shorter treatment.	

Balance of Effects  Does the balance between desirable and undesirable effects favor the intervention or the comparison?		
Judgement	Evidence	Additional considerations
O Favors the comparison O Probably favors the comparison O Does not favor either the intervention or the comparison O Probably favors the intervention O Favors the intervention O Varies O Don't know		The Guideline Development Group panel considers that the benefit of the intervention is greater than the risk, so a strong recommendation was formulated. There was no evidence for patients immunocompromised due to HIV, so the expert panel updated the remarks of the previous version of the Guideline.
Resources Required How large are the resource requirements (costs)?		
Judgement	Evidence	Additional considerations
O Large costs O Moderate costs O Negligible costs and savings O Moderate savings O Large savings O Varies O Don't know		The Guideline Development Group panel considers that liposomal amphotericin B is expensive when acquired nationally and still with little access in the countries of the Region, but it is the best therapeutic strategy for adult and pediatric patients in the Americas.
Certainty of Evidence of Required Resources What is the certainty of the evidence of resource requirements (costs)?		
Judgement	Evidence	Additional considerations
O Very low O Low O Moderate O High O No included studies		

Cost-Effectiveness Does the cost-effectiveness of the intervention favor the intervention or the comparison?			
Judgement	Evidence	Additional considerations	
O Favors the comparison			
O Probably favors the comparison			
O Does not favor either the intervention or the comparison			
O Probably favors the intervention			
O Favors the intervention			
Ovaries			
O No included studies			
Equity What would be the impact on health equity?			
Judgement	Evidence	Additional considerations	
OReduced		Some interventions would be available mainly in large and medium-sized	
O Probably reduced		cities, and access would be more limited for people in remote areas.	
O Probably no impact			
O Probably increased			
OIncreased			
Ovaries			
O Don't know			

Acceptability Is the intervention acceptable to key stakeholders?		
Judgement	Evidence	Additional considerations
O <sub>No</sub>		Most interventions would be accepted by the guideline users.
O Probably no		
O Probably yes		
Oyes		
Ovaries		
O Don't know		
Feasibility Is the intervention feasible to implement?		
Judgement	Evidence	Additional considerations
O <sub>No</sub>		Most interventions could be implemented.
O Probably no		Difficulties will be encountered in accessing liposomal amphotericin B,
O Probably yes		but it is hoped that access can be provided by strengthening drug
Oyes		production and distribution policies.
Ovaries		
O Don't know		