



Millennium
Science
Initiative

ANNUAL REPORT

PEER REVIEWERS' EVALUATION FORM

2022

EVALUATION FORM

CENTER DIRECTOR'S LAST NAME	<i>Vania Martinez Nahuel</i>
NAME OF THE INSTITUTE OR NUCLEUS	<i>Millennium Nucleus to Improve the Mental Health of Adolescents and Youth</i>
PERIOD EVALUATED	2022

INSTRUCTIONS

After reading the report, please evaluate each section using the following grading scale:

- Outstanding
- Very Good
- Good
- Fair but requires important improvements
- Noncompetitive

Include brief comments for each criterion and fill-in only the spaces in **light blue**.

COMPONENT 1: ADVANCED SCIENTIFIC/TECHNOLOGICAL RESEARCH

COMPONENT EVALUATION GUIDELINES

Evaluate the scientific, technical, and methodological achievements of the center, in terms of the academic excellence or impact of the work developed as well as its quantity or productivity. Assess the level of fulfillment of the goals established during the center's existence, expressed through verifiable products, such as: scientific publications in high impact indexed journals or other relevant works that reflect the research and/or development with national and international recognition, either by its quality, productivity and/or leadership in its area of expertise. The following aspects should also be considered and positively valued:

- Multi, transdisciplinary and associative work among Associate Researchers and other participants of the Institute or Nucleus.
- Results and impact of products obtained in terms of relevance for the country and the world or the delivery of some other type of contribution to society.

If applicable, consider the center's plans in terms of the capacity to carry-out the research successfully and with high standards of scientific quality, as well as to generate relevant scientific works and excellence in the area of work. In particular, consider the work plan approach, the team formed to deal with it, and the coherence of them with respect to the objectives and goals. Also consider on that the organizational structure and integrated management capacity of the Institute or Nucleus

GRADE: *Outstanding*

SUB-COMPONENT 1.1: Evaluate the **coherence** between the central objectives of the center and its direction, actions, and methodologies.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

The objectives of the nucleus remain clear and appropriately focused. There is strong evidence of coherence between the methodologies and actions completed and these objectives. It is particularly heartening to the nucleus has embraced engagement with young participants and with people from indigenous backgrounds, something that has enhanced the work of the nucleus considerably.

SUB-COMPONENT 1.2: Comment on the **advances in the Center's research lines**, and of the Center as a whole (*achievements, impact, cutting-edge research, and others*).

COMMENTS: The research lines (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

Assess the level of fulfillment of the goals established during the center's existence, expressed through verifiable products, such as: scientific publications in high impact indexed journals or other relevant works that reflect the research and/or development with national and international recognition, either by its quality, productivity and/or leadership in its area of expertise.

SUB-COMPONENT 1.3: Comment on the **collaborative and interdisciplinary work** between the Center's researchers. In particular, evaluate the collaboration between researchers from different research lines at the Center.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

There is good evidence of collaborative work between members of the nucleus – though collaboration is more evident between principal researchers across the various lines than it is between these and other coinvestigators (according to the tabular summary). Nonetheless authorship of research outputs in the various annexes demonstrates good networking between members of the research team, across research lines and with other authors beyond the immediate team. Interdisciplinarity is built into each of the thematic research lines, and cross over between these has been fully embraced in this reporting year.

SUB-COMPONENT 1.4: Evaluate the **Center's productivity** taking into account the following parameters:

- Publications (*level and quantity (by subject) and their possible impact; ISI publications or equivalent, Scopus or equivalent, SCIELO or equivalent (depending on the discipline) and other publications such as books or book chapters.*)
- Presentations at Congresses/Seminars and others
- Innovation and intellectual property resulting from the research.
- Researchers participating in ISI journal editorial committees or equivalent.
- Resources and funds obtained from the private sector
- Scientific awards
- Others relevant in your discipline

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

The research team has produced an impressive number of scientific publications (38), with a good number in high quality international journals. This supports the international reach of the nucleus, whilst their impressive publications in Latin American journals and some of their book chapters enable the nucleus to achieve its more regional goals and ambitions. Publications have been more strongly driven by principal researchers, although these have sometimes been in collaboration with student authors, which is a strength. Publication in journals like the BMJ and Current Psychology are impressive in their status, whilst the use of open access platforms like Frontiers certainly supports the visibility of the work of the centre. It may be that there has been a little too much emphasis placed on the latter platform, something that perhaps needs fuller consideration when planning further research outputs.

A check of these articles in various databases suggests they are already being cited, despite their relatively recent publications dates and this also underscores the value and impact of this work.

The research team has attended a good number of relevant international and national / regional conferences, presenting significant research outputs, and enhancing global and regional reach.

Researchers from the nucleus are well represented on editorial boards for prestigious international journals. In addition, senior researchers in particular have received prestigious regional awards, and it is particularly heartening to see recognition of the women scientists in the nucleus.

COMPONENT 1 FINAL COMMENTS: Enter general comments and/or suggestions to the Center regarding **Component 1: Advanced scientific/technological research.**

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

The nucleus has performed well in relation to scientific excellence and outputs during this reporting year.

COMPONENT 2: TRAINING OF YOUNG RESEARCHERS

COMPONENT EVALUATION GUIDELINES

This section should be evaluated considering the Center's achievements in the training of young scientists and advanced human capital as well as the plans implemented for the development (or leadership) of research lines by young researchers. In terms of advanced human capital, the number of postgraduate and undergraduate students in training and graduates, as well as the number of postdoctoral participants in the work of the Institute or Nucleus should be considered.

Also, consider the plans and potential for the training of young scientists and advancing human capital. Evaluate the plans for the development of lines of investigation led by young researchers. The strategy to formally incorporate them into this, or any other institution, should also be assessed. In terms of advancing human capital, consider the number of undergraduate and graduate students in training, as well as the number of postdoctoral researchers expected to work for the Institute or Nucleus. Plans with gender equity, should be positive considered.

GRADE: *Very good*

SUB-COMPONENT 2.1: Comment on the Center's students, considering the following:

- Quantity and quality of students (*undergraduate, MSc, PhD*) and of postdocs with tutors belonging to the Center.
- Number of young people graduated during the period.
- Gender representation among the students

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

The nucleus continues to evidence a good range of undergraduate, masters and doctoral students engaging with training. Gender representation is slightly skewed towards female, but this is in keeping with current international trends in demographics of mental health students. Evidence of throughput through graduation is good. Student opportunities to present at international conferences underscores the high quality of the students and the work they do, as does their co-authorship of key publications.

SUB-COMPONENT 2.2: Evaluate the **number/type/quality of the publications** of the associate, junior or senior researchers, that are coauthored by Center's students.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

Students are named as coauthored on a good number of outputs from the nucleus, several of which are in international journals. Seven also participated in national and international conferences, an excellent number for a nucleus of this size, with three receiving prizes for participation. Nonetheless, there is scope for further growth and development for student publication in particular, and this could be even more fully encouraged in future years.

SUB-COMPONENT 2.3: Insert comments regarding the participation of the Center (*or of the Center's researchers*) in **formal training programs**, at different levels, for young scientist.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

The nucleus has arranged a good range of appropriate training events, as well as providing good evidence of structured support for students through supervision.

It is disappointing that no internships were possible this year.

COMPONENT 2 FINAL COMMENTS: Enter general comments and/or suggestions to the Center regarding **Component 2: Training of young researchers**.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

The destinations of students after leaving the centre shows a pattern of good achievement and continuing professional engagement that indicates the quality of the research training offered.

COMPONENT 3: NETWORKING

COMPONENT EVALUATION GUIDELINES

Assess this component taking into consideration the achievements and plans in the development of **networking and fundraising activities**. In particular, consider the following:

- Develop and strengthening of networks. Work between scientists from the Center and researchers from other institutions, both national and foreign, on equal terms (*i.e. a relation based not only on providing students to other institutions*).
- The search for and acquisition of complementary financing sources, whether public or private.

GRADE: *Very good*

SUB-COMPONENT 3.1: Comment on the participation of the Center's research teams in **formal national and/or international networks**, already established or in the process of being established. Evaluate their quantity, quality and if they involve additional funding for the research lines.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

IMHAY shows good evidence of maintaining its collaborative networks, and these have been consolidated wit joint publication in this reporting period. In addition, some appropriate arrangements have been made for visitor exchanges for students and staff. It would be useful to see some clear planning for future research collaboration, particularly in relation to funding and grant capture with these partner organisations.

SUB-COMPONENT 3.2: Appraise the **relevance, projection and achievements of the networks** established, or in the process of being established, by the Center.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

The networks are appropriate to support and develop the international reach and impact of the nucleus.

SUB-COMPONENT 3.3: Comment on the participation of the Center in **other collaborative activities**. Evaluate their quantity, quality, and achievements.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

There is good evidence of engagement in collaborative activity, and in particular the plans for further visitor exchange are good to see. As stated above, it would be useful to see a clear strategy for future activities related to these networks.

COMPONENT 3 FINAL COMMENTS: Enter general comments and/or suggestions to the Center regarding **Component 3: Networks**.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

Networking is a challenging aspect of academic work, and the nucleus has clearly embraced this challenge. However, it would be useful to see how this translates into clearer strategy for future work.

COMPONENT # 4: OUTREACH

COMPONENT EVALUATION GUIDELINES

Comment on the achievements, and proposed plans, for the Center's **technological and knowledge transfer, scientific diffusion, and outreach**. Although you may not have a detailed understanding of the context or of the Chilean culture, consider the Center's outreach strategy in terms of the coherence between it and the objectives set by the Center. If possible, refer to the pertinence of the applied methodologies. Plans that have an innovative and high impact profile should be highly valued.

GRADE: *Very good*

SUB-COMPONENT 4.1: Comment on the **outreach activities** carried out by the Center. Albeit you may not have a detailed understanding of the context or culture, give your opinion regarding the quantity, quality, relevance, projection, and achievements of these outreach activities.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

The nucleus has a good, well structured website, and its online presence in social media is now more established. There is evidence of regular updates to all these accounts.

The bulk of the website is only available in Spanish. The English section is more limited, focusing primarily on publications and the research team. This is understandable given the composition of the research team, however, it may limit the reach of the impact and knowledge transfer of the nucleus to Spanish speaking locations, and reduce a little the potential for it to impact non-research organisations beyond the Spanish speaking world. Given the global reach of Spanish, this may not be a significant limitation, but perhaps something to consider.

SUB-COMPONENT 4.2: Taking into consideration the connections with the **productive and service sectors** (*public or private*), **education sector, and with the community in general**, comment on: joint ventures, development projects and other similar initiatives. Assess quantity, quality, relevance, projection, and achievements of these connections.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

Good engagement is evident in the outreach activities of the centre, with impressive evidence of joint activities, seminars and presentations, training events, and collaborations with non-academic organisations.

COMPONENT 4 FINAL COMMENTS: Enter general comments and/or suggestions to the Center regarding **Component 4: Outreach**.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

This component of imhay's work is generally well achieved.

General Comments

Finally, enter general comments, suggestions, and recommendations about this Millennium Center.

Weaknesses: (detailed explanation required; no character limit)

The nucleus is still perhaps a little overfocused on the activities of key researchers. It is clear that this is being worked on.

Diversification of publications could be a little better. Overrepresentation in Frontiers may limit research

There is a need for a clearer strategy to underpin international networks – what are these networks FOR?

Strengths: (detailed explanation required; no character limit)

Good international publications.

Strong networks that offer a solid foundation for future work, that could be more fully realized.

Good training and high quality student outputs.

Final comments: (detailed explanation required; no character limit)

Overall this is an impressive nucleus that takes constructive feedback on board and uses it to further enhance their work.



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CENTER DIRECTOR'S LAST NAME	Vania Martínez Nahuel
NAME OF THE INSTITUTE OR NUCLEUS	Millennium Nucleus to Improve the Mental Health of Adolescents and Youths
PERIOD EVALUATED	2022

INSTRUCTIONS

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COMPONENT EVALUATION GUIDELINES

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If applicable, consider the center's plans in terms of the capacity to carry-out the research successfully and with high standards of scientific quality, as well as to generate relevant scientific works and excellence in the area of work. In particular, consider the work plan approach, the team formed to deal with it, and the coherence of them with respect to the objectives and goals. Also consider on that the organizational structure and integrated management capacity of the Institute or Nucleus

GRADE: Outstanding

SUB-COMPONENT 1.1: Evaluate the **coherence** between the central objectives of the center and its direction, actions, and methodologies.

COMMENTS:

This center has reorganized its objectives in sound ways based on their previous experience. They have a good organizational structure to execute their plans within this new set of objectives. The work they have done during this reporting period- publications, conference presentations, networks and outreach - aligns well with these objectives. They have presented the work within that structure effectively and understandably.

SUB-COMPONENT 1.2: Comment on the **advances in the Center's research lines**, and of the Center as a whole (*achievements, impact, cutting-edge research, and others*).

COMMENTS:

The center has taken the work done during the original three years of funding under the MSI, and enhanced and developed the current work building on previous work and outcomes in promising directions. Achievements are impressive and detailed within the report. They demonstrate breadth and depth of exploration brought to completion in publications and presentations.

SUB-COMPONENT 1.3: Comment on the **collaborative and interdisciplinary work** between the Center's researchers. In particular, evaluate the collaboration between researchers from different research lines at the Center.

COMMENTS:

They have instituted a built-in structure of meetings and cross-research inclusionary activities that support collaboration, and the outcomes of various lines demonstrate the effectiveness of these efforts. The publications and presentations and outreach show input from different disciplines represented in the Center. Details are articulated and itemized in the report. Evidence of this is also given in the variety of joint authors from different research lines evident in papers, chapters, and presentations.

SUB-COMPONENT 1.4: Evaluate the **Center's productivity** taking into account the following parameters:

- Publications (*level and quantity (by subject) and their possible impact; ISI publications or equivalent, Scopus or equivalent, SCIELO or equivalent (depending on the discipline) and other publications such as books or book chapters.*)
- Presentations at Congresses/Seminars and others
- Innovation and intellectual property resulting from the research.
- Researchers participating in ISI journal editorial committees or equivalent.
- Resources and funds obtained from the private sector
- Scientific awards
- Others relevant in your discipline

COMMENTS:

They have an impressive set of publications in journals and books and presentations in many conferences- see report for details. Among the 25 articles published in ISI/WOS journals, 19 of them are published in journals classified in quartiles 1 or 2 (Q1 and Q2), 1 in Q3, and 5 in Q4.

Research publications, presentations and conference discussions address a variety of important topics related to the various research lines. These include the role of digital technologies; psychotic experiences, emotional regulation and suicidal ideation in general population adolescents; a meta-analysis of mental health in college students in Chile; early prediction of schizophrenia through language analysis; and effectiveness of an online anti-bullying intervention.

Multiple awards have been garnered by researchers, which also shows value of their work. They have obtained some funding from the private sector.

COMPONENT 1 FINAL COMMENTS: Enter general comments and/or suggestions to the Center regarding **Component 1: Advanced scientific/technological research.**

COMMENTS:

The depth and breadth of their research is impressive and ambitious. One area that they might want to explore is the issue of how adolescents find meaning. I do not see this in the publications or details included in the report. This existential issue has relevance for suicide, substance abuse, and resiliency especially. Sources of meaning can be diverse- from cultural, spiritual, and humanistic sources- and this team is ideally situated to fold this into their

research. I found one of their papers in the report that addressed this in terms of coping, and they have an interest in mindfulness as an intervention, but there are other avenues to explore fruitfully. There are aspects of lived experience that contribute to alienation, and other factors that contribute to more coherence and sustenance for adolescents as they struggle with various mental health issues. This grounded and interdisciplinary group is well situated to think creatively about interventions and resources that might contribute positively to the lives of adolescents, addressing these issues and approaches. I would encourage them to emphasize this more as they move forward.

COMPONENT 2: TRAINING OF YOUNG RESEARCHERS

COMPONENT EVALUATION GUIDELINES

This section should be evaluated considering the Center's achievements in the training of young scientists and advanced human capital as well as the plans implemented for the development (or leadership) of research lines by young researchers. In terms of advanced human capital, the number of postgraduate and undergraduate students in training and graduates, as well as the number of postdoctoral participants in the work of the Institute or Nucleus should be considered.

Also, consider the plans and potential for the training of young scientists and advancing human capital. Evaluate the plans for the development of lines of investigation led by young researchers. The strategy to formally incorporate them into this, or any other institution, should also be assessed. In terms of advancing human capital, consider the number of undergraduate and graduate students in training, as well as the number of postdoctoral researchers expected to work for the Institute or Nucleus. Plans with gender equity, should be positive considered.

GRADE: Very Good

SUB-COMPONENT 2.1: Comment on the Center's students, considering the following:

- Quantity and quality of students (*undergraduate, MSc, PhD*) and of postdocs with tutors belonging to the Center.
- Number of young people graduated during the period.
- Gender representation among the students

COMMENTS:

During 2022, 44 students participated in the Center. 24 were part of the first three years of Imhay and 20 were incorporated in 2022. In total, there are 17 undergraduate students, 15 master's degree students, and 12 PhD students; 25 are female students and 19 male students.

Students have finished significant research projects and participated in conferences and publications. These fit well into the goals of the Center.

SUB-COMPONENT 2.2: Evaluate the **number/type/quality of the publications** of the associate, junior or senior researchers, that are coauthored by Center's students.

COMMENTS:

Effectively including students can be a challenge, but this Center has done this well. In 2022, 7 different students participated in 11 publications with principal researchers, 5 of them were ISI/WOS, 1 Scielo, and 3 were indexed in other academic data bases such as Latindex and Lilacs, and 2 were book chapters.

SUB-COMPONENT 2.3: Insert comments regarding the participation of the Center (or of the Center's researchers) in **formal training programs**, at different levels, for young scientist.

COMMENTS:

In 2022, 11 students completed their academic degrees, and 6 of them presented their theses related to different projects carried out by Imhay's principal researchers.

There were no internships, but three students received awards for their participation in national and international conferences, who presented results from their thesis. Two master's degree students in neuroscience were awarded with the first place for their poster in the IV International Conference. Also, a PhD student in public health involved in the Center was awarded one of the best student presenters in the 8th International Conference on Public Health 2022.

COMPONENT 2 FINAL COMMENTS: Enter general comments and/or suggestions to the Center regarding **Component 2: Training of young researchers**.

COMMENTS:

Notably, several research assistants have worked at Imhay alongside principal or adjunct researchers, mostly young people working on mental health topics. They collaborate in research projects by doing literature reviews, collecting data, writing manuscripts for publication in scientific journals, among other activities. This is a valuable way to include students in the work.

There is a significant component of this project that trains young researchers, and folds research experience into the students' academic lives through direct

participation and involvement. They have seemed to offer some freedom to the younger investigators to be creative and shape their particular interests in innovative ways. There may be additional ways to explore to continue to invite students to maintain involvement after graduation in the important topics of the Center.

COMPONENT 3: NETWORKING

COMPONENT EVALUATION GUIDELINES

Assess this component taking into consideration the achievements and plans in the development of **networking and fundraising activities**. In particular, consider the following:

- Develop and strengthening of networks. Work between scientists from the Center and researchers from other institutions, both national and foreign, on equal terms (*i.e. a relation based not only on providing students to other institutions*).
- The search for and acquisition of complementary financing sources, whether public or private.

GRADE: Very Good

SUB-COMPONENT 3.1: Comment on the participation of the Center's research teams in **formal national and/or international networks**, already established or in the process of being established. Evaluate their quantity, quality and if they involve additional funding for the research lines.

COMMENTS:

15 of 32 publications included researchers from other countries, such as Argentina, Perú, Bolivia, Ecuador, Brasil, México, India, Netherlands, United States of América, Finland, Switzerland, and Australia.

During Imhay's first period, different collaboration networks were consolidated, of which 2 are national and 4 are international. For Imhay's second period, all the networks were maintained.

SUB-COMPONENT 3.2: Appraise the **relevance, projection and achievements of the networks** established, or in the process of being established, by the Center.

COMMENTS:

The national and international variety of networks is impressive and bodes well for the impact of this Center in the future. The networking activities have resulted in conferences and other outreach activities.

SUB-COMPONENT 3.3: Comment on the participation of the Center in **other collaborative activities**. Evaluate their quantity, quality, and achievements.

COMMENTS:

During 2022, the Center had collaborative work with public and private institutions from different sectors of society, participating in 22 activities or connections with other institutions and NGOs. Most of the connections with other sectors have been made with the public sector, with the aim of creating and strengthening public policies.

They have also developed significant collaborations in the education sector, even with formalized agreements.

Imhay made 22 links with institutions from other sectors of society during 2022, mainly public institutions and NGOs, in order to contribute to the strengthening of public policies and activities aimed at promoting the well-being of adolescents and young people. This year, 5 collaboration agreements were formalized to strengthen the work between the Center and other public institutions and NGOs (e.g. Todo Mejora and Wildlife Conservation Society).

Also during this year, collaborative relationships were established with other Millennium centers: Millennium Nucleus for the Study of the Development of Early Math Skills (MEMAT), Millennium Nucleus Student Experience in Higher Education in Chile: Expectations and Realities (EDSUP), Millennium Institute for Care Research (MICARE), and collaboration with the Millennium Instituto for Research on Depression and Personality (MIDAP) was deepened.

COMPONENT 3 FINAL COMMENTS: Enter general comments and/or suggestions to the Center regarding **Component 3: Networks**.

COMMENTS:

The specific nature of this Center lends itself well to having an impact internationally as well as in Chile. The quality of the research and publications lend status to this work.

COMPONENT # 4: OUTREACH

COMPONENT EVALUATION GUIDELINES

Comment on the achievements, and proposed plans, for the Center's **technological and knowledge transfer, scientific diffusion, and outreach**. Although you may not have a detailed understanding of the context or of the Chilean culture, consider the Center's outreach strategy in terms of the coherence between it and the objectives set by the Center. If possible, refer to the pertinence of the applied methodologies. Plans that have an innovative and high impact profile should be highly valued.

GRADE: Outstanding

SUB-COMPONENT 4.1: Comment on the **outreach activities** carried out by the Center. Albeit you may not have a detailed understanding of the context or culture, give your opinion regarding the quantity, quality, relevance, projection, and achievements of these outreach activities.

COMMENTS:

This center is continuously contacted by various health, education and NGO institutions, who consult with it regarding its scientific work and request the participation of its professionals in lectures, talks, training, among other activities. Researchers from the center had 103 appearances in national and international media, in news-papers, radio, television and electronic portals. In many researchers, of different categories, participated in 47 dissemination activities in different regions of the country, reaching more than 6,000 attendees, where they were invited as professional experts in adolescent and youth mental health.

During 2022, the Center organized 5 scientific events, of which 2 were international events open to the public. This openness to the public shows the effort to bridge the research to the general public.

The communications area is led by a communications professional, who guides and mediates the dissemination work among collaborators (support journalist, graphic designer, and other service providers), scientists and press.

Imhay has an institutional website (www.imhay.org) and online social networks with more than 10,000 followers (Facebook, Twitter, Instagram y YouTube). All these platforms, which are increasing in number day by day, have become an effective way to disseminate Imhay's work, promote the activities organized and establish a direct link with the public and institutions interested in the topics worked on by the research team.

The Center reports on its work through the writing of news with its own content, which are published periodically, and launched a monthly newsletter, where the main information of Imhay is made known. It is sent to professional and non-specialized audiences, as well as to decision-makers. In order to make scientific publications accessible, the content is shared on online social networks in simple language that is easy to understand for the audience. Also, Imhay developed a guide teaching how to talk about suicide in an empathetic, respectful and non-judgmental way.

SUB-COMPONENT 4.2: Taking into consideration the connections with the **productive and service sectors** (*public or private*), **education sector, and with the community in general**, comment on: joint ventures, development projects and other similar initiatives. Assess quantity, quality, relevance, projection, and achievements of these connections.

COMMENTS:

The Center collaborated with two public institutions: the "Instituto Nacional General José Miguel Carrera" (public educational school) and the "Centro de Perfeccionamiento, Experimentación e Investigaciones Pedagógicas" (CPEIP) of the Ministry of Education of Chile. The director, Vania Martinez, is participating in a commission that seeks to promote better mental health for the students and conducted a workshop on mental health leadership for the students. Principal researcher Carolina Iturra is participating in workshops for classroom teachers in the Maule Region aimed at preventing problems of school violence.

The website they have established gives a way for the public to see the work done by the Center and the research results that can be incorporated, and ways to connect with the Center.

As an example of their outreach activities, Imhay had a mental health section in radio Universidad de Chile and was permanently invited to participate in the program "Sana Mente" of CNN Chile, the first Chilean television program dedicated exclusively to mental health issues.

COMPONENT 4 FINAL COMMENTS: Enter general comments and/or suggestions to the Center regarding **Component 4: Outreach**.

COMMENTS:

A major emphasis of this group is outreach and they have done impressive work in this regard.

So frequently, research ends up isolated, but this group consistently takes their results to practical applications, and receives feedback and input from real-world sources and environments.

General Comments

Finally, enter general comments, suggestions, and recommendations about this Millennium Center.

Weaknesses:

There are no major weaknesses in this project. I would encourage increasing attention to existential issues, enrichment of intervention development in this regard, and enhancement of qualitative research as they engage with educational and public audiences.

Strengths:

They have gained momentum in their work from the first 3 years of funding and are building on that in sound ways. The interdisciplinary nature of their work is so valuable. Their attention to outreach as they do research and academic work is to be commended. They have very sophisticated ways of doing outreach.

Final comments:

This Center and its work merits long term investment. I hope that they can plan for finding long term support for this work, both within their respective institutions and from outside sources. They have the research support and international affirmation that can make this possible. They are doing such important work and I want it to continue to flourish even beyond the tenure of this Millennium funding.



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OVERVIEW

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NAME OF THE INSTITUTE OR NUCLEUS	Alvaro Langer Herrera
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- Multi, transdisciplinary and associative work among Associate Researchers and other participants of the Institute or Nucleus.
- Results and impact of products obtained in terms of relevance for the country and the world or the delivery of some other type of contribution to society.

If applicable, consider the center's plans in terms of the capacity to carry-out the research successfully and with high standards of scientific quality, as well as to generate relevant scientific works and excellence in the area of work. In particular, consider the work plan approach, the team formed to deal with it, and the coherence of them with respect to the objectives and goals. Also consider on that the organizational structure and integrated management capacity of the Institute or Nucleus

- **GRADE: Very Good**

SUB-COMPONENT 1.1: Evaluate the **coherence** between the central objectives of the center and its direction, actions, and methodologies.

COMMENTS: Overarching goal is to generate evidence that contributes to the development and evaluation of interventions to improve the mental health of adolescents and youth. The center directions include four lines of research 1) Individual, relational, community and societal aspects; 2) Awareness and promotion; 3) Universal and targeted prevention; 4) Detection and early intervention. These lines of research are in line with the overarching objective. The method in research line 1 focuses on college students however, the overarching goal is of adolescence and youth, so not a direct link. Research line 2. The other three lines provide a coherent match between objective direction, action, and methods.

SUB-COMPONENT 1.2: Comment on the **advances in the Center's research lines**, and of the Center as a whole (*achievements, impact, cutting-edge research, and others*).

COMMENTS: In the area of

Achievements: received 6 awards, 1 from the National Award for Technological and Applied Science,

Impact: 103 appearances in national and international media; 38 publications 25 25 articles correspond to the ISI/WOS category; 22 links with institutions from other sectors; 44 undergraduate, master's and doctoral students participated in Imhay; 47 dissemination activities in different regions of the country, reaching more than 6,000 attendees, 22 links with institutions from other sectors of society during 2022, mainly public institutions and NGOs, 5 collaboration agreements were formalized to strengthen the work between Imhay and other public institutions and NGOs

Cutting-edge research: Several excellent lines of research 1) access and use of technologies in girls and adolescents living in rural environments; 2) Design and piloting of a device to evaluate emotional regulation processes in young university students. This reviewer agrees with Imhay assessment that they need to develop studies on the adolescent population and especially other more socially disadvantaged groups of young people and encourage them to make this a priority.

SUB-COMPONENT 1.3: Comment on the **collaborative and interdisciplinary work** between the Center's researchers. In particular, evaluate the collaboration between researchers from different research lines at the Center.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

Six formal collaborative networks, of which 4 are international and 2 are national.

SUB-COMPONENT 1.4: Evaluate the **Center's productivity** taking into account the following parameters:

- Publications (*level and quantity (by subject) and their possible impact; ISI publications or equivalent, Scopus or equivalent, SCIELO or equivalent (depending on the discipline) and other publications such as books or book chapters.*)
- Presentations at Congresses/Seminars and others
- Innovation and intellectual property resulting from the research.
- Researchers participating in ISI journal editorial committees or equivalent.
- Resources and funds obtained from the private sector
- Scientific awards
- Others relevant in your discipline

COMMENTS:

38 articles. 25 articles correspond to the ISI/WOS category, in journals indexed in other databases, such as Lilacs or Latindex. 16 correspond to the research line "Individual, relational,

community, and societal aspects", 4 to the research line "Awareness and promotion", 6 to the line "Universal and targeted prevention" and 12 to the line "Detection and early intervention".

COMPONENT 1 FINAL COMMENTS: Enter general comments and/or suggestions to the Center regarding **Component 1: Advanced scientific/technological research.**

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

Two important advance line of research focus on mental health of LGBT+ students, non-suicidal self-injury, suicidal risk, among other topics, and design and piloting of a device to evaluate emotional regulation processes in young university students. For both these lines this reviewer encourages Imhay to explore these topics beyond college student to adolescent and youth.

COMPONENT 2: TRAINING OF YOUNG RESEARCHERS

COMPONENT EVALUATION GUIDELINES

This section should be evaluated considering the Center's **achievements in the training of young scientists and advanced human capital** as well as the plans implemented for the development (or leadership) of research lines by young researchers. In terms of advanced human capital, the number of postgraduate and undergraduate students in training and graduates, as well as the number of postdoctoral participants in the work of the Institute or Nucleus should be considered.

Also, consider the **plans and potential for the training of young scientists** and **advancing human capital**. Evaluate the plans for the development of lines of investigation led by young researchers. The strategy to formally incorporate them into this, or any other institution, should also be assessed. In terms of advancing human capital, consider the number of undergraduate and graduate students in training, as well as the number of postdoctoral researchers expected to work for the Institute or Nucleus. Plans with gender equity, should be positive considered.

GRADE: Good

SUB-COMPONENT 2.1: Comment on the **Center's students**, considering the following:

- Quantity and quality of students (*undergraduate, MSc, PhD*) and of postdocs with tutors belonging to the Center.
- Number of young people graduated during the period.
- Gender representation among the students

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

Promising indicators on recruitment and retention as of 2022, 44 students participated in Imhay, of which 24 were part of the first three years with 20 joining in 2022. In total, there were 17 undergraduate students, 15 master's degree students, and 12 PhD students. Gender representation is good at 25 female students and 19 male students.

Since 2022, 11 students graduated, and 6 completed theses,

SUB-COMPONENT 2.2: Evaluate the **number/type/quality of the publications** of the associate, junior or senior researchers, that are coauthored by Center's students.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

7 different students participated in 11 publications with principal researchers, 5 of them were ISI/WOS, 1 Scielo, and 3 were indexed in other academic data bases such as Latindex and Lilacs, and 2 were book chapters. In terms of participation in congress presentations, 7 different students participated in 7 congress presentations (3 national and 4 international events). While the publications are encouraging, it is 16% of the students at Imhay student body (7/44)

SUB-COMPONENT 2.3: Insert comments regarding the participation of the Center (or of the Center's researchers) in **formal training programs**, at different levels, for young scientist.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

- Imhay student program is designed to develop research skills applied to adolescent and youth mental health through the development of technical competencies (e. g. research methodology, oral communication, and scientific writing) and relational competencies (e. g. teamwork, communication, creativity, and leadership). These program activities support the goal. There are however a few barriers that may restrict student engagement:

-Student funding sources are external, through scholarships and/or self-funding, the latter can place a large burden on students and restrict access to those who may be from lower SES backgrounds. It would be helpful for Imhay leadership to identify funds for students, so they do not have to pay out of pocket.

-no internships were conducted. The applicant does not state how or why they would expect this would improve during the next two years.

COMPONENT 2 FINAL COMMENTS: Enter general comments and/or suggestions to the Center regarding **Component 2: Training of young researchers.**

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

To help ensure equity and individuals from diverse backgrounds are accessing educational opportunities, it would be of value to monitor recruitment and retention by race ethnicity of students, those who are first generation college students, and low SES households.

COMPONENT 3: NETWORKING

COMPONENT EVALUATION GUIDELINES

Assess this component taking into consideration the achievements and plans in the development of **networking and fundraising activities**. In particular, consider the following:

- Develop and strengthening of networks. Work between scientists from the Center and researchers from other institutions, both national and foreign, on equal terms (*i.e. a relation based not only on providing students to other institutions*).
- The search for and acquisition of complementary financing sources, whether public or private.

GRADE: Very Good

SUB-COMPONENT 3.1: Comment on the participation of the Center's research teams in **formal national and/or international networks**, already established or in the process of being established. Evaluate their quantity, quality and if they involve additional funding for the research lines.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit). Imhay continues to maintain 5 formal collaborative networks, of which 4 are international and 1 is national (the Violence Studies Network ceased its operations in 2022). The current collaborations are directly relevant to Imhay lines of research and expands Imhay's reach and knowledge base.

SUB-COMPONENT 3.2: Appraise the **relevance, projection and achievements of the networks** established, or in the process of being established, by the Center.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

Imhay formal collaboration networks are directly related to their line of research and have been quite productive. 1) High Risk Mental State Network- an international conference was organized, 2 conferences were held with international invited researchers and 2 working

groups. 2) The World Mental Health International College Student Initiative conducted a survey on multi-center longitudinal study to assess the mental health of college students. 3) Conectados al Sur are planning a seminar that would be held in October 2023. 4) International Mindfulness Network produced an article in 2022. 5) Network for the Development of Digital Mental Health two books were published, awarded with a grant to promote international linkage for research institutions with plans to hold a workshop, an international seminar, promote short research stays for students, and visits of researchers from universities of other countries.

SUB-COMPONENT 3.3: Comment on the participation of the Center in **other collaborative activities**. Evaluate their quantity, quality, and achievements.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

Imhay has participated in two other collaborative networks: 1) International Institute of Knowledge Management where different students and young researchers presented the results from their thesis and other research activities. 2) Society of Child and Adolescent Psychiatry and Neurology of Chile. Imhay researchers organized one workshop and two symposiums. These collaborations provided Imhay students access to research dissemination opportunities.

COMPONENT 3 FINAL COMMENTS: Enter general comments and/or suggestions to the Center regarding **Component 3: Networks**.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

Imhay networks are appropriate, relevant, and productive.

COMPONENT # 4: OUTREACH

COMPONENT EVALUATION GUIDELINES

Comment on the achievements, and proposed plans, for the Center's **technological and knowledge transfer, scientific diffusion, and outreach**. Although you may not have a detailed understanding of the context or of the Chilean culture, consider the Center's outreach strategy in terms of the coherence between it and the objectives set by the Center. If possible, refer to the pertinence of the applied methodologies. Plans that have an innovative and high impact profile should be highly valued.

GRADE: Outstanding

SUB-COMPONENT 4.1: Comment on the **outreach activities** carried out by the Center. Albeit you may not have a detailed understanding of the context or culture, give your opinion regarding the quantity, quality, relevance, projection, and achievements of these outreach activities.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

Imhay outreach activities are very impressive, expensive, and relevant to their lines of research. To mention a few examples, the center research had 103 appearances in national and international media, in newspapers, radio, television and electronic portals. They also have a monthly newsletter, sent to professional, non-specialized audiences, and decision makers. An outstanding contribution is their guide “[Como hablar del suicidio en forma segura](#)”, teaching how to talk about suicide. They have participated in 47 dissemination activities in different regions of the country, reaching more than 6,000 attendees. They also have an impressive online presence with an institutional website (www.imhay.org) and online social networks with more than 10,000 followers ([Facebook](#), [Twitter](#), [Instagram](#) y [YouTube](#)). In addition, they have collaborative work with other public and private institutions from different sectors of society, participating in 22 activities or connections with other institutions and NGOs.

SUB-COMPONENT 4.2: Taking into consideration the connections with the **productive and service sectors** (*public or private*), **education sector, and with the community in general**, comment on: joint ventures, development projects and other similar initiatives. Assess quantity, quality, relevance, projection, and achievements of these connections.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

Education sector: two public institutions where they conducted workshops.
 community in general: as discussed in 4.1 Imhay outreach to the general public is far reaching. Other important activities were related to the mental health of adolescents and young people, such as consultancies, training, health fairs, among others. Imhay reported 3 new agreements with NGOs that include training in suicide risk, a chat service that provides support to LGBT+ youth who suffer bullying, suicidal ideation, or require guidance about their sexual orientation and gender identity. Coordination to provide training in suicide risk assessment to their professionals who work in a chat service for adolescents and young people. A collaboration to work on various aspects related to climate change and mental health.

COMPONENT 4 FINAL COMMENTS: Enter general comments and/or suggestions to the Center regarding **Component 4: Outreach**.

COMMENTS: (enter any type of pertinent comment you may have; try to be as detailed as possible; no character limit)

Overall, very strong outreach efforts.

General Comments

Finally, enter general comments, suggestions, and recommendations about this Millennium Center.

Weaknesses: (detailed explanation required; no character limit)

- Some lines of research focus on college students as opposed to adolescents and youth.
- needs to identify more funds for students so they participate in research activities without paying out of their own pockets

Strengths: (detailed explanation required; no character limit)

- Strong and important lines of research, timely and relevant
- Good publication record
- impressive outreach efforts

- This reviewer agrees with Imhay assessment that they need to develop studies on the adolescent population and especially other more socially disadvantaged groups of young people and encourage them to make this a priority.

Final comments: (detailed explanation required; no character limit)

Imhay is a very good research center providing excellent research opportunities to student producing rigorous scientific products.