Feasibility, effectiveness, and satisfaction achieved by the transdisciplinary intervention of a clinical-hospital ethics committee. A qualitative and quantitative study

Jorge O. Selandari^a ^(D), Manuela de la Portilla^a ^(D), M. Susana Ciruzzi^a ^(D), Claudia Couceiro^a ^(D), Hernán O. García^a ^(D), M. de los Ángeles Iervolino^a ^(D), Daniela N. Marín^a ^(D), Carina Miranda^a ^(D), Luis Novali^a ^(D), Laura Ortega^a ^(D), Corina Ponce^a ^(D), Pablo Puccar^a ^(D), Susana G. Quintana^a ^(D), Estela Rodríguez^a ^(D), Fernanda Ledesma^a ^(D)

ABSTRACT

Introduction. A clinical ethics committee (CEC) has educational, regulatory, advisory, mediation, and reflexive functions. As any health care service, the consults with the CEC should be subjected to review and quality improvement. The study objectives were to assess the feasibility, effectiveness, and satisfaction with the bioethical recommendations made by the CEC and assess their impact on the treating team and the patient's family.

Population and methods. Descriptive, retrospective, qualitative, and quantitative study of clinical cases submitted to the hospital's CEC between January 1st, 2013 and December 31st, 2017 using data from the CEC minute book, medical records, registries from the Office for Remote Communication, and semi-structured interviews with health care team members.

Results. A total of 108 cases (106 patients) were analyzed: 73 cases with survey and registries and 35 with registries only. The main most frequent reasons for consultation were adequacy of therapeutic effort (46/42.6%), severe neurological involvement (15/13.9%), patient's quality of life (11/10.2%), patient-family-health system conflict (7/6.5%), and family's refusal of treatment (6/5.6%).

High levels of satisfaction (>95%) and moderate levels of feasibility (> 74%) and effectiveness (> 85%) were observed. In only 50/108 cases (46.3%), the consultation with the CEC was registered in the medical record, 44% of health care providers stated that the consultation had a positive impact on the patient and their family. *Conclusions*. Results helped to establish improvement opportunities, especially in terms of documentation and communication in the consultation process.

Key words: clinical ethics committees, clinical ethics, ethics consultation, withholding treatment, quality improvement.

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INTRODUCTION

A clinical ethics committee (CEC) has educational, regulatory, advisory, mediation, and reflexive functions, among others.¹ In relation to the latter 3 functions, as with any health care service, any consultation with the CEC regarding an individual case should be subjected to review and quality improvement.²⁻⁸ However, the fundamental differences with clinical care services make the evaluation of the excellence and quality of clinical ethics consultations problematic and intricate. It is possible that for these reasons the investigation of these aspects is infrequent.9-11 For this reason, research about these aspects may be uncommon.

The objectives of this study were to assess the feasibility, effectiveness, and satisfaction of recommendations made by the CEC in ethical and health care-related problems and also assess their impact on the treating team and the patients' family.

POPULATION AND METHODS

This was a descriptive, retrospective, qualitative and quantitative study about clinical cases submitted to the hospital's CEC between January 1st, 2013 and December 31st, 2017. It was based

a. Hospital de Pediatría S.A.M.I.C. Prof. Dr. Juan P. Garrahan, Autonomous City of Buenos Aires, Argentina.

E-mail address: Jorge O. Selandari: jselandari@intramed.net

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Conflict of interest: None.

Received: 11-26-2020 Accepted: 8-5-2021 on data collected from the CEC minute book, medical records (MR), registries from the Office for Remote Communication (ORC), and semistructured interviews with health care team members involved in patient presentation. If the MR could not be obtained, the case was excluded.

MR items that had a subjective outcome were agreed upon among investigators and classified as per a 3-point Likert scale (not at all, partially, and completely).

One of the authors (MDLP) conducted interviews with the treating team, either in person or via telephone or email if the consult came from another institution.

Subjective items in the survey administered to health care providers were collected based on a 5-point Likert scale (see *Annex*: survey form and operationalization of variables). To facilitate reporting, these results were grouped into 3 categories: unfavorable and favorable, as end categories, and partial, as central category. In relation to reasons for consultation, survey respondents had a list of options from which they had to select the primary and other secondary reasons and, at the end, they could write additional reasons. If no survey was available for a specific case, the primary and secondary reasons were attributed based on registry analysis.

To facilitate communication, variables were classified into 3 groups: feasibility, effectiveness, and satisfaction (FES).

The anonymity of assessed cases and interviewed health care providers was warranted using conventional methods.

The informed consent was obtained orally. Data collection and analysis were done using REDCap[®], Excel[®], and conventional descriptive statistical methods.

The study was approved by the Research and Teaching Board of Hospital de Pediatría S.A.M.I.C. Prof. Dr. Juan P. Garrahan.

RESULTS

Out of 122 cases, 14 were excluded due to missing data, isolated request for drug authorization or brief consultations resolved by a CEC member.

FIGURE 1. Flowchart of study cases



ORC: Office for Remote Communication.

The final analysis included 108 cases (106 patients): 73 cases with survey and registries and 35 with registries only (MR, CEC minute book, and ORC) (*Figure 1*). Case distribution by year is regular; this and patient demographic data are shown in *Table 1*.

The main most frequent reasons for consultation were as follows (n/%): adequacy of therapeutic effort (46/42.6%), severe neurological involvement (15/13.9%), patient's quality of life (11/10.2%), patient-family-health system conflict (7/6.5%), and family's refusal of treatment (6/5.6%). All primary reasons for consultation are shown in *Figure 2* whereas grouped primary and secondary reasons are seen in *Figure 3* (see electronic *Annex*).

The number of meetings per case was a median of 1 (range: 1-5); 20 (19%) had an urgent nature. In only 1 case, the CEC recommended a legal intervention on its own and, in 4 cases, it recommended the intervention of agencies for the protection of the rights of children and adolescents.

Table 2 shows a non-comprehensive list of the specialties participating in consultations with the CEC (see electronic *Annex*).

In all cases, a report to consultants was made with written recommendations; however, only in 31 (28.7%), such report was included in the MR. In addition to these 31 cases, in 19 (17.6%), a health care provider made a partial transcription in the MR. That is to say, in only 50 of 108 cases (46.3%) the consultation with the CEC had been registered in the MR.

Profile and opinions of interviewed health care providers

A total of 73 health care providers (69.4%) completed the survey; 54 were females (73.9%),

TABLE 1. Consultations per year and demographic data

Year	Consultations n (%)
2013	18 (16.7)
2014	21 (19.4)
2015	23 (21.3)
2016	24 (22.2)
2017	22 (20.4)
Demographic data	
Sex	
Male	62 (58)
Female	43 (41)
Intersex	1 (1)
Age	
Neonate	2 (1.9)
1-24 months old	42 (38.8)
2-13 years old	47 (43.5)
13-15 years old	6 (5.6)
> 16 years old	10 (9.3)
No data for age	1 (0.9)

n: number.

FIGURE 2. Primary reasons for consultation



their mean (range) age was 49 years (35-63), and had a mean (range) professional experience of 12 years (4-40). Specialties and some of their areas of expertise are detailed in *Table 3* (see electronic *Annex*). In some cases no survey was obtained because it was not possible to contact the treating team (29), the team member refused to be interviewed or did not recall the case (6).

In 46 cases (64%), health care providers did not change their initial opinion; in 16 (22%), they changed it partially; and in 10 (14%), they modified it. In addition, 58 health care providers (80%) stated that the consultation with the CEC increased their competence to approach difficult cases; 10 (14%), that it had done so partially; and 5 (6%), that it did not.

In relation to the consultation helping to clear legal questions, 38 health care providers (52%) said it was helpful; 15 (21%) that it was partially helpful; and 20 (27%), that it did not help at all.

The results classified into feasibility, effectiveness, and satisfaction are summarized below. They are detailed in *Table 4*.

Feasibility

Among survey respondents, 63 (86%) considered that the CEC's suggestions were made in a timely manner to take decisions with the patient; and 60 (82%), that the consultation with the CEC facilitated an adequate decision-making process by the health care team. In relation to the implementation of such decisions, 54 (74%) believed that they were facilitated.

Consistency between the conduct and the recommendation could be assessed in 59 cases (54.6%). The recommendation was fully adhered to in 50 cases (85%).

Effectiveness

In relation to the CEC's recommendation having a positive impact on the patient or their family, 31 health care providers (44%) stated that it did. According to 68 survey respondents (93%), the consultation with the CEC did not worsen the situation.

Among the 108 analyzed cases, consistency between the actual and the expected course could be evaluated in 55 (50.9%), with total or partial consistency in 47 (91%).

Satisfaction

In total, 69 health care providers (95%) agreed with the CEC's recommendation. In relation to the time devoted to preparing and conducting the consultation, 71 survey respondents (97%) considered it was justified; and 70 (96%) believed the consultation with the CEC was an overall positive experience.

The remarks noted in 38/73 surveys (52%) are grouped by topic in *Table 5* (see electronic *Annex*).

DISCUSSION

Few studies, either in adult or pediatric patients, have been found to be used in a comparison with our results. *Table 6* shows a summary of the results of this study compared to the bibliography.¹²⁻²⁴

Quality indicators are usually classified into structure, process, and result.²⁵ Based on such logic, the findings classified as FES (feasibility, effectiveness, and satisfaction) are result indicators of a consultation regarding an ethical issue. Quantifying the results of an ethical consultation is difficult; so much so that whether results or only structures and processes should be assessed during an ethical consultation is still a matter of debate.^{8,26,27} Therefore, it may be incorrect to assess a CEC based on feasibility, effectiveness, and satisfaction criteria. The characteristics mentioned here may not be considered CEC objectives; instead, its function is to provide adequate or good recommendations based on a solid and fair ethical reasoning.²²

If a recommendation is the most adequate one, feasibility, satisfaction, etc. may be of little importance. However, it is easy to imagine scenarios where the CEC may make correct recommendations from an ethical perspective, but that the treating team does not implement, not because the recommendation is wrong but because the team fails. Also, ethically perfect recommendations may not be satisfactory for the treating team. On the other side, a CEC may arrive to an ethically correct argument, but make the wrong recommendations if the treating team has not performed an accurate technical and medical assessment of diagnoses, therapeutic options, and prognostic probabilities.

Therefore, it is not enough to make correct recommendations, since a main objective of the CEC is that the correct decision happens in the patient. If this is not the case, the failure may still be attributed to the CEC in terms of its main functions, such as creating consensus, interceding, managing knowledge, and having an inquisitive behavior regarding clinical possibilities.

In the CEC-treating team dyad, whose purpose is to reach an agreement about the decision that best respects the patient's and their family's values, in practice, "who is wrong" results insignificant. What really matters is that both parties should not overlook their shared objective and always seek ongoing improvement.

From another perspective, Mercurio² addresses the problem of quantifying the performance of a CEC by matching it to the "satisfaction of the treating team and/or the patient's family",¹⁵ an argument also supported by Delany and Hall.²⁸ We have already analyzed some of the weaknesses of equate satisfaction

with performance, in addition to those described by other authors.⁶ Another risk of looking to satisfy the treating team is that of turning the CEC into just one more instrument of the hospital, one that has the power of persuasion over the patient and their family, for something similar to the cultural imperialism described by DeMichelis.²⁹

Another effectiveness measure proposed for CECs is reducing both the length of stay in the intensive care unit (ICU) and life-sustaining treatments provided to patients who do not survive, addressed by Schneiderman et al. in

Feasibili	ty						
Source	Variable	Not at all	Very little	Partial	ly Alm compl	1	letely
Survey	To what extent did the consultation with the CEC facilitate an adequate decision- making by the health care team?	2 (3%)	0 (0%)	11 (15%)	25) (349		5 3%)
Survey	To what extent did the consultation with the CEC facilitate the implementation of decisions?	1 (1%)	2 (3%)	16 (22%)	24) (33%		0 .%)
Survey	To what extent were the CEC's recommendations, either verbal or written, made on time to make decisions with the patient?	3 (4%)	0 (0%)	7 (7%)	14 (149		9 7%)
MR	Consistent action/ recommendation	(1 2%)	8 (13%))		0 5%)
Effective	ness						
Source	Variable	Not at all	Very little	Partially	Almost completely	Completely	N
Survey	To what extent did the CEC's recommendation have a positive impact on the patient or their family?	9 (13%)	7 (10%)	23 (33%)	14 (20%)	17 (24%)	70
Survey	The consultation with the CEC worsened the situation.	66 (90%)	2 (3%)	3 (4%)	0 (0%)	2 (3%)	73
MR	Consistent actual/expected course		5 0%)	3 (5.5%)		47 (85.5%)	75
Satisfacti	on						
Source	Variable	Not at all	Very little	Partially	Almost completely	Completely	Ν
Survey	To what extent did you agree with the recommendation?	0 (0%)	0 (0%)	4 (5%)	10 (14%)	59 (81%)	73
Survey	The time devoted to preparing and conducting the consultation with the CEC was justified by the outcome.	0 (0%)	1 (1.4%)	1 (1.4%)	11 (5%)	60 (82.2%)	73
Feasibili	ty						
Source	Variable	Not at all	Very little	Partially	Almost completely	Completely	Ν
Survey	The consultation with the CEC was an overall positive experience.	0 (0%)	2 (3%)	1 (1%)	8 (11%)	62 (85%)	73

TABLE 4. Feasibility, effectiveness, and satisfaction

MR: medical record; CEC: clinical ethics committee.

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 TABLE 6. Comparison of results with other studies

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decision implementation													
4F. Consistent action/ 85%													
recommendation													
1E. Impact on the family 44%												57%	
and/or patient													
2E. Worsened the situation 3%												4%	
3E. Consistent actual/ 85%													
expected course													
1S. Agreement with 95%													
the recommendation													
2S. Time devoted 97%													
3S. Positive experience 96%			%06 <		%06						86%	96%	

References: Johnson 2015,¹² Streuli 2014,¹³ Yen 1999;¹⁴ Thomas 2015,¹⁵ Hellyer 2015,¹⁶ Opel 2009;¹⁷ Moeller 2012,¹⁸ Kalager 2011,¹⁹ Tapper 2010,²⁰ La Puma 1988,²¹ La Puma 1992,²² Orr 1996;²³ y Swetz 2007.²⁴

1F to 4F: results grouped as feasibility. 1E to 3E: results grouped as effectiveness. 1S to 3S: results grouped as satisfaction. a Reason for consultation = ATE: proportion of cases for which adequacy of therapeutic effort was the primary reason for consultation. ICU: intensive care unit, MR: medical record; no.: number.

TABLE 6. (Continued)

2 studies.^{30,31} This second outcome measure entails a suspected bias, sometimes referred to as the "self-fulfilling prophecy". It is logical to believe that, if life sustaining care is reduced, survival in the ICU will also reduce. Therefore, based on these data only, it is not possible to conclude that such reduction would have been correct, excessive or insufficient.

Examples of self-fulfilling prophecies give substance to such objection and include both individual cases and systematic actions. Austin et al. described the case of a patient with an extremely poor prognosis, where the health care team and her family agreed to stop her vital support, a decision that was delayed only a few days to allow family members to arrive from a distant location. Such delay allowed the patient to fully recover and demonstrate that her prognosis had been mistaken.³² Green et al. described the systematic decision of extracorporeal membrane oxygenation weaning due to lung failure after 5-14 days in patients with similar clinical characteristics in whom it was later verified that would have been able to survive if support had been prolonged.³³ Becker et al., in their study of a prognostic model of intracranial hemorrhage, describe how the decision to withdraw the patient from vital support and a pessimistic attitude have a greater impact on decision-making than other objective factors, such as the extent of the hemorrhage or the Glasgow score.³⁴ Ferrand and Racine, in a recent study, analyzed the difficulties faced by the health care team to make decisions based on prognosis, which reinforces the need to keep a humble attitude and an open mind during discussions based on prognostic estimations.35

In relation to taxonomy (feasibility, effectiveness, and satisfaction), it is not expected to be universally accepted because its use is clearly arguable. For example, feasibility items may be interpreted as corresponding to satisfaction ("the recommendations were made on time") or effectiveness ("facilitated the implementation", "consistency between actions and recommendations"). Like many other classifications, this is only an attempt to make the analysis of intricate and diffuse topics easier to understand.

Other limitations of this study are related to the methodology used. A large part of the information collected here was obtained from the answers of interviewed providers, which may be biased. Individually, interviewed people may bend their answers towards politeness due to their desire, conscious or unconscious, to be liked or to be respectful with the hospital. On the contrary, the same answers may be affected by a negative bias. It is not possible to rule out or establish the tendency of such bias or o nor any other bias entailed by survey methods.

Unlike other investigations,^{15,24,36} this study addressed the patients' and families' experience through the opinion of the treating team. At no time was their experience addressed directly. Although it is always made clear that the CEC is available for any need stated by the family, both in the written recommendations and the meetings with the treating team, such request is seldom made. This is possibly because, since its origin, Hospital Garrahan's CEC was established as an advisory body for the treating team and is the target of such efforts. In most cases, the treating team has a strong bond with the patient and their family, so the CEC's interference in such physician-patient relationship may be seen as a disadvantage that could lead to adverse effects or dissatisfaction.^{15,37} When the treating team requests the CEC's help to provide the family with feedback about the meeting, 1 to 3 CEC members channel such request.

Other methodologies have been described to assess the performance of individual advisors, small groups or committees regarding ethical consultations, such as analyzing the CEC structure or the consultation process.^{9,38} Structure assessments focus on components, certifications, and competences of CEC members. Other process analyses include, for example, the analysis of the written consultation report using a holistic instrument developed by Pearlman et al.,³⁹ or the checklists proposed by Flicker et al.⁴⁰

Considering the limitations and problems mentioned in this study and by other authors,^{6,11,12} we deem the results of this investigation relevant. These are the initial steps in our hospital towards the implementation of ongoing improvement tools for the strengthening of the CEC processes.

CONCLUSIONS

This study revealed high levels of satisfaction (> 95%) and moderate levels of feasibility (> 74%) and effectiveness (> 85%). Among health care providers, 80% stated that the consultation with the CEC increased their competence to approach difficult cases and 51%, that it helped to clear legal questions. However, only 44% considered that the consultation had a positive impact on the patient and their family. The study findings

motivated improvements in the development of consultations with the CEC, especially in terms of documentation, communication during the consultation process, and reassessment of direct contact between parents and patients and the CEC. ■

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ANNEX

FIGURE 3. Grouped primary and secondary reasons



One or more reasons per case. Total = 230 reasons in 108 cases.

TABLE 2. Specialties participating in consultations

Specialty	n	%	Specialty	n	%
1. Mental health	34	11.4	19. Traumatology and orthopedics	5	1.7
2. Palliative care	32	10.7	20. Neonatology	5	1.7
3. Neurology	32	10.7	21. Bioethics	5	1.7
4. Social services	20	6.7	22. Cardiovascular surgery	3	1
5. Cardiology	16	5.4	23. Plastic surgery and burn care	3	1
6. Hematology and oncology	16	5.4	24. Dermatology	3	1
7. Neurosurgery	15	5	25. Inborn errors of metabolism	3	1
8. Nephrology	13	4.3	26. Spinal disease	3	1
9. Genetics	12	4	27. Intensive care	3	1
10. Gastroenterology	8	2.7	28. Bone marrow transplant	3	1
11. Pulmonology	8	2.7	29. Radiology and interventional radiology	3	1
12. Pediatrics	8	2.7	30. Interdisciplinary clinics	2	0.7
13. General surgery	7	2.3	31. Respiratory endoscopy	2	0.7
14. Hepatology	6	2	32. Hemotherapy	2	0.7
15. Growth and development	5	1.7	33. Infectious diseases	2	0.7
16. Endocrinology	5	1.7	34. Adolescence	2	0.7
17. Nutrition	5	1.7	35. Urology	1	0.3
18. Ophthalmology	5	1.7	36. Imaging tests	1	0.3
			Total	298	100

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Specialty and area of expertise	n	%	Specialty and area of expertise	n	%
Clinical pediatrics	22	30.14	Palliative care	3	4.11
General medicine	13	17.81	Neurology	3	4.11
Hospitalization	6	8.22	Neuromuscular disease	2	2.74
Emergency care	2	2.74	Epilepsy	1	1.37
Complex chronic conditions	1	1.37	Growth and development	2	2.74
Intensive care	13	17.81	Liver transplantation	2	2.74
General intensive care	12	16.44	Ophthalmology	2	2.74
Immunocompromised patients	1	1.37	Inborn errors of metabolism	2	2.74
Nephrology	7	9.59	Social services	1	1.37
Nephrology	4	5.48	Burn unit	1	1.37
Renal transplantation	3	4.11	Neonatology	1	1.37
Hematology and oncology	7	9.59	Radiology	1	1.37
Non-malignant hematology	1	1.37	Interventional radiology	1	1.37
Oncology	6	8.22	Physical therapy	1	1.37
Mental Health	5	6.85	Pediatric physical therapy	1	1.37
Psychology	2	2.74			
Psychiatry	2	2.74			
Oncology	1	1.37			
			Overall total	73	100

TABLE 3. Professional specialty and area of expertise* of interviewed providers

n: number.

*Area of expertise referred by the interviewed provider.

TABLE 5. Remarks grouped by topic

Торіс	n	%
Positive assessment of activity	10	13.7
Greater visibility of recommendations in medical records	7	9.6
Only verbal recommendations; written recommendations were delayed or were never received	3	4.1
Dissatisfaction with the CEC	3	4.1
Wished to follow-up on the case	2	2.7
More efficient recommendations	2	2.7
Proposed the CEC as an educational activity for young physicians and residents	2	2.7
Did not believe it was an unbiased recommendation	1	1.4
Complaint that the CEC's response is about how and not what	1	1.4
More objectivity. "The use of images during the presentation reduces the case objectivity. It causes a higher impact on those who are not familiar with the patient and there is a big difference between those who know them and those who don't".	1	1.4
More subjectivity. "I would suggest that the patient should be seen before making decisions to prevent patient depersonalization. The CEC should meet them, know the patient and the treating team".	1	1.4
Greater involvement of the CEC in decision communication	1	1.4
Felt overlooked by a CEC member	1	1.4

CEC: clinical ethics committee; n.: number.

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Study about the results of the CEC's recommendations	Case no.

Sex:	Age:	Professional experience:	
Main specialty:			
Area of expertise:			

Select the reason(s) for consultation with the clinical ethics committee (CEC)

(You may select several options; write "1" next to the main reason.)

- Withholding/withdrawing treatments
- Legal uncertainty (reporting duty, risk for malpractice, etc.)
- Lack of treatment adherence
- Quality of life
- Terminally ill (life expectancy < 6 months)
- Severe neurological involvement
- Persistent vegetative state

- Excessive treatment requested by physicians
- Excessive treatment requested by the family
- Family's refusal of treatment
- Patient's refusal of treatment
- Conflict among team physicians
- Health care team-family conflict
- Patient-family-health system conflict (hospital, group health plan funded by a labor union, HMO plan, etc.)
- Other/s (write your remarks on the back)

Mark with an "X" the option that best suits your opinion.

1. Not at all, 2. Very little, 3. Partially, 4. Almost completely,	1	2	3	4	5
5. Completely					-
To what extent did you agree with the recommendation?					
To what extent did the consultation with the CEC facilitate					
an adequate decision-making by the health care team?					
To what extent did the consultation with the CEC facilitate					
the implementation of decisions?					
To what extent were the CEC's recommendations, either					
verbal or written, made on time to make decisions with					
the patient?					
To what extent did the consultation with the CEC change					
your opinion about the case?					
To what extent did the CEC's recommendation have					
a positive impact on the patient or their family?					
	1	2	3	4	5
4. Agree, 5. Strongly agree	1	2	3	4	5
4. Agree, 5. Strongly agree The time devoted to preparing and conducting the	1	2	3	4	5
4. Agree, 5. Strongly agree The time devoted to preparing and conducting the consultation with the CEC was justified by the outcome.	1	2	3	4	5
4. Agree, 5. Strongly agree The time devoted to preparing and conducting the	1	2	3	4	5
4. Agree, 5. Strongly agree The time devoted to preparing and conducting the consultation with the CEC was justified by the outcome.	1	2	3	4	5
4. Agree, 5. Strongly agree The time devoted to preparing and conducting the consultation with the CEC was justified by the outcome. The consultation with the CEC worsened the situation.	1	2	3	4	5
4. Agree, 5. Strongly agree The time devoted to preparing and conducting the consultation with the CEC was justified by the outcome. The consultation with the CEC worsened the situation. The consultation with the CEC was an overall	1	2	3	4	5
4. Agree, 5. Strongly agree The time devoted to preparing and conducting the consultation with the CEC was justified by the outcome. The consultation with the CEC worsened the situation. The consultation with the CEC was an overall positive experience.	1	2	3	4	5
4. Agree, 5. Strongly agree The time devoted to preparing and conducting the consultation with the CEC was justified by the outcome. The consultation with the CEC worsened the situation. The consultation with the CEC was an overall positive experience. The consultation with the CEC helped to clear legal questions.	1	2	3	4	5
4. Agree, 5. Strongly agree The time devoted to preparing and conducting the consultation with the CEC was justified by the outcome. The consultation with the CEC worsened the situation. The consultation with the CEC was an overall positive experience. The consultation with the CEC helped to clear legal questions. The consultation with the CEC increased your competence	1	2	3	4	5
4. Agree, 5. Strongly agree The time devoted to preparing and conducting the consultation with the CEC was justified by the outcome. The consultation with the CEC worsened the situation. The consultation with the CEC was an overall positive experience. The consultation with the CEC helped to clear legal questions. The consultation with the CEC increased your competence to approach difficult cases.	1	2	3	4	5
4. Agree, 5. Strongly agree The time devoted to preparing and conducting the consultation with the CEC was justified by the outcome. The consultation with the CEC worsened the situation. The consultation with the CEC was an overall positive experience. The consultation with the CEC helped to clear legal questions. The consultation with the CEC increased your competence to approach difficult cases.	1	2	3	4	5

Hospital de Pediatría S.A.M.I.C. "Prof. Dr. Juan P. Garrahan"	2018
Study about the results of the CEC's recommendations	Case no.

Remarks:

Variable	Туре	Operational definition
Initial date of submission	Discrete quantitative	Date registered in CEC minute book
Reason for submission	Nominal categorical	Explicit/implicit
Diagnostic categorical	Nominal categorical	Specialty that initiated the consultation
Other relevant specialties	Nominal categorical	Present during patient visit
Categorization of source of ethical issue or problem with decision-making	Nominal categorical	List of options and free text
Number of CEC meetings	Discrete quantitative	Count in CEC minute book
Case for urgent resolution?	Nominal dichotomous categorical	Case for which a decision is requested necessary in a fixed time limit, less than 7 days: Yes/no
Legal intervention?	Nominal dichotomous categorical	Do the measures included in the report suggest a legal intervention?: Yes/no
Intervention by other external agency for the protection of the rights of children and adolescents?	Nominal dichotomous categorical	Do the measures included in the report suggest an intervention by other external agency for the protection of the rights of children and adolescents?: Yes/no

Operationalization of variables collected in the record book

Operationalization of variables collected in the medical record

Variable	Туре	Operational definition
Does it include the recommendation document?	Nominal dichotomous categorical	Yes/no
If the recommendation document is not included, was it transcribed into the clinical course sheet?	Nominal dichotomous categorical	Yes/no
Transcription	Nominal dichotomous categorical	Total/partial
Course	Nominal categorical	Live/dead/unknown
Date of consultation with the CEC	Discrete quantitative	Date as per medical record
Date of latest entry in the medical record	Discrete quantitative	Date of latest description of course in the medical record
Follow-up duration	Continuous quantitative	Date of latest entry – date of consultation
Date of death	Discrete quantitative	Date as per medical record
Survival time	Continuous quantitative	Date of death and date of consultation
Consistent action / recommendation	Ordinal categorical	The actions recorded in the medical record show that the recommendation was followed Likert scale [*]
Consistent actual/expected course	Ordinal categorical	The patient course is consistent with that presumed in the recommendation document Likert scale*

*Descriptors 1 to 3: Not at all, partially, completely.

Which were the primary reasons for consultation with the CEC? (More than 1 category may be applied to each case.)

The interviewed provider will have the same options described under "Categorization of source of ethical issue or problem with decision-making" plus an empty field to specify and describe other reasons not provided in the examples.

The following variables will receive a subjective qualification by the interviewed provider in response to the statement "In your opinion..." using a 5-point Likert scale with the following descriptors, as applicable:

1) Strongly disagree, 2) disagree, 3) neither agree nor disagree, 4) agree, 5) strongly agree.

1) Not at all, 2) very little, 3) partially, 4) almost completely, 5) completely.

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Variable	Туре	Operational definition
Sex N	ominal dichotomous categorical	Male/female
Age	Discrete quantitative	Years
Professional experience	Discrete quantitative	Years
Main specialty	Nominal categorical	Pediatrics or subspecialty
Area of expertise	Nominal categorical	In relation to pediatrics or subspecialty
Primary reasons for consultation	Nominal categorical	Multiple selection of 1 or more options, indicating primary reason + optional free text
Time devoted	Ordinal categorical	"The time devoted to preparing and conducting the consultation with the CEC was justified by the outcome". Likert scale*
Timely	Ordinal categorical	"The CEC's opinion/recommendations, either verbal or written, were made on time to make decisions with the patient". Likert scale#
Agreement with the recommendation	n Ordinal categorical	"Agreement with the recommendation". Likert scale#
Facilitated an adequate decision-ma	king Ordinal categorical	"The consultation with the CEC facilitated an adequate decision-making by the health care team". Likert scale#
Facilitated an adequate decision implementation	Ordinal categorical	"The consultation with the CEC facilitated an adequate decision implementation by the health care team (either decisions made prior to the consultation with the CEC or decisions that were or were not consistent with those suggested by the CEC)". Likert scale*
It changed their opinions	Ordinal categorical	"Extent to which the consultation with the CEC changed your opinion about the case". Likert scale*
It worsened the situation	Ordinal categorical	"The consultation with the CEC worsened the situation". Likert scale*
Positive experience	Ordinal categorical	"The consultation with the CEC was an overall positive experience". Likert scale#
Legal questions	Ordinal categorical	"The consultation with the CEC helped to clear legal questions". Likert scale*
Competence	Ordinal categorical	"The consultation with the CEC increased your competence to approach difficult cases". Likert scale*

Operationalization of variables collected in the interviews

CEC: clinical ethics committee.

#Descriptors 1 to 5: 1) Strongly disagree, 2) disagree, 3) neither agree nor disagree, 4) agree, 5) strongly agree.

*Descriptors 1 to 5: 1) Not at all, 2) very little, 3) partially, 4) almost completely, 5) completely.

For analysis purposes, the answers in the ends of the Likert scale were categorized into positive and negative and the answers in the central category, into partial.