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Clinical Psychology and Perinatal Mental Health Programs in hospitals in the Community of Madrid: Description and recommendations of Good Practices

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ARTICLE INFO

Received: July 28, 2023

Accepted: October 5, 2023

Keywords

Perinatal psychology
Perinatal mental health
Perinatal grief
Good practices

ABSTRACT

Specific attention to perinatal mental health is a key element in the healthcare system. In Spain and in the Community of Madrid, concern for perinatal mental health has been increasing in recent years. The objective of this work is to identify and describe the main perinatal psychological care programs and the first thousand days in the hospitals of the Madrid Health Service. Twelve Hospitals with complete or partial programs were identified. Their organizational and care characteristics are described. The ratios of perinatal clinical psychologists range from 0.04 to 0.51/10,000 deliveries and from 0.08 to 0.78/20 neonatology cribs in the region. Perinatal mental health care programs in the Madrid hospital network have been consolidated and expanded; however, there are inequities in the availability of this care. Good practice recommendations for implementing and improving these programs are provided.

Programas de Psicología Clínica y Salud Mental Perinatal en Hospitales la Comunidad de Madrid: Descripción y Recomendaciones de Buenas Prácticas

RESUMEN

La atención específica a la salud mental perinatal es un elemento clave en el sistema sanitario. En España y en la Comunidad de Madrid la preocupación por la salud mental perinatal ha venido incrementándose en los últimos años. El objetivo de este trabajo ha sido identificar y describir los principales programas de atención psicológica perinatal y a los primeros mil días de vida en los hospitales del Servicio Madrileño de Salud. Se han identificado doce hospitales con programas completos o parciales de los que se describen sus características organizativas y asistenciales. Las ratios de psicólogos/as clínicos/as perinatales van de 0.04 a 0.51/10000 partos y de 0.08 a 0.78/20 cunas de neonatología en la región. Los programas de atención a la salud mental perinatal en la red de hospitales madrileños se han consolidado y expandido, sin embargo existen inequidades en la disponibilidad de esta atención. Se proporcionan recomendaciones de buenas prácticas para implementar y mejorar estos programas.

Palabras clave

Psicología perinatal
Salud mental perinatal
Duelo perinatal
Buenas prácticas

Cite this article as: Cuellar-Flores, I., Álvarez-Cienfuegos, L., Arias, S., Cordero, E., Díaz, M., Fernández, A., Lanza, E., Serrano-Villar, M., Madrigal, A., Hernanz, A., Velayos, L., Álvarez, M., Eimil, B., Pérez, L., Jiménez, M., Jordán, C. & Dieguez, M. (2024). Clinical psychology and perinatal mental health programs in hospitals in the Community of Madrid: Description and recommendations of good practices. *Papeles del Psicólogo/Psychologist Papers*, 45(2), 108-115. <https://doi.org/10.23923/pap.psicol.3039>

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Introduction

Specific attention to perinatal mental health is a key element for better clinical outcomes in pregnancy, childbirth, and early infant life (World Health Organization -WHO, 2022). In addition to prevention and screening measures, the World Health Organization (WHO) recommends early mental health intervention from maternal and child services, integrating this type of care effectively into existing services, and providing phased, inclusive, person-centered care (WHO, 2022).

The paradigm of care for the first 1,000 days (Conecta Perinatal, 2023; p. 128) complements or extends perinatal mental health care to the first two years of a child's life. These programs have been adopted in several countries in Latin America and Europe with the objective of improving well-being, including the emotional well-being, of mothers, fathers, siblings, and infants, and their implementation has recently been announced in some hospitals in Madrid (Tragacete, 30 March 2023).

These recommendations are based on the high prevalence of mental disorders and emotional distress during this period. One in 10 mothers in high-income countries will experience a mental health problem during pregnancy or in the year after delivery (WHO, 2022). Specifically in Spain, about 15% of women in the prenatal period and 27% in the postnatal period (Besteiro et al., 2001; Rodríguez-Muñoz et al., 2023) experience perinatal depression. Furthermore, having a newborn child in neonatology constitutes a risk situation for presenting mental disorders during the baby's first year of life (Hynan et al., 2013), and people who lose a child during the perinatal period are at high risk of presenting a psychological disorder (Burden et al. 2016). Another specific area is assisted reproduction, which can involve high emotional stress (Burgio et al., 2022).

It is known that postpartum depression is currently underdiagnosed (WHO, 2022), and very little attention is given to the perinatal emotional distress of the father. There is also evidence that stress and emotional distress during pregnancy is associated with an increased likelihood of preterm birth (Staneva et al., 2015), and with children presenting mental health problems and lower intellectual capacity (Bauer et al., 2015).

Therefore, numerous guidelines emphasize that the assessment, detection, and intervention of mental health problems during pregnancy and the postpartum period are essential to ensure the physical and emotional well-being of the mother, father, and baby (National Institute for Health and Care Excellence-NICE, 2018) and recommend actively assessing them (Austin et al., 2017; NICE, 2018). In addition, intervening on them can be cost-effective (Bauer et al., 2014).

The World Health Organization (WHO, 2022) states that this care should be provided by psychologists trained in this field, in the context of maternal and child services, in the case of mild-moderate problems, and in the specialized mental health setting for moderate-severe problems. However, it is estimated that about 85% of women with depression during the perinatal period are not adequately treated (Goodman & Tyer-Viola, 2010). For this reason, expert groups have made recommendations on the number of professionals that would be necessary to ensure the accessibility of psychological treatments. In the United Kingdom, it has been recommended that there should be one

full-time clinical psychologist for every 20 neonatal care beds (Atkins et al., 2022) and eight for every 10,000 births in outpatient services (or 0.8 full-time days per thousand births) (Royal College of Psychiatrists, 2021, p. 56).

In Spain, concern for perinatal mental health has been increasing in recent years, at the professional, institutional, and political levels. Several regional mental health plans include among their objectives the improvement of perinatal mental health care, including the Community of Madrid, Catalonia, Cantabria, and Aragon (Servicio Cántabro de Salud [Cantabrian Health Service], 2022; Oficina Regional de Coordinación de Salud Mental y Adicciones -ORCSMyA [Regional Office for the Coordination of Mental Health and Addictions -ORCSMyA], 2023; Unidad de Coordinación de Salud Mental [Mental Health Coordination Unit], 2022). In the Community of Madrid, the Strategic Plan currently in force and the previous one raised perinatal and 0-3 mental health care as a strategic objective (ORCSMyA, 2018; 2023). In addition, in recent years, papers have been published on the experience of specific programs in hospitals in the region (Cuéllar-Flores & Valle, 2017; Olza & Palanca, 2012), and the development of new programs has recently been announced (Tragacete, 30 March 2023; Community of Madrid, 12 September 2022; Mateos, 2 February 2023).

However, there are no censuses or lists of hospitals that carry out this type of program in the region, nor are their characteristics known. For this reason, the objective of this study was to identify the main programs of perinatal psychological care and care during the first thousand days of life in the hospitals of the Madrid Health Service, and to describe their organizational and care characteristics.

Method

The authors contacted at least one clinical psychology professional in 18 of the 24 hospitals of the Madrid Health Service with an obstetrics and gynecology (maternity) service and conducted a survey with open-ended questions via email on: 1) the existence of specific clinical psychology programs/consultations/care activities in perinatal mental health in the hospital where they work; 2) identification of the activities carried out, the context in which they are provided, and referral criteria; and 3) requesting to establish contact with at least one of the professionals involved in the program. This contact was made through an active search in our professional social networks (open instant messaging groups formed by more than 400 clinical psychology professionals in the Community of Madrid) and personal social networks.

It is important to point out that in primary care in the Community of Madrid there is currently no specific clinical psychology care for the perinatal period. On the other hand, all the hospitals in the public network have interconsultation and liaison programs dependent on the mental health services, and they can receive interconsultations to attend patients during the perinatal period. The same can be said about the mental health centers, which are specialized level, and attend people with mental disorders, including people during the perinatal period. However, in this study we wanted to identify specific programs in perinatal mental health. The criteria we have used to define what we

Table 1
Criteria Used to Identify Perinatal Clinical Psychology and/or early Childhood Care Programs

Necessary criterion:
• Availability of at least one clinical psychologist who is also constant for this perinatal clinical psychological care and/or care for the first thousand days.
Complementary criteria:
• The existence of a written perinatal or neonatal mental health care program/ procedure/protocol and/or
• The identification of a specific consultation/care schedule/therapy group (with referral criteria related to perinatal mental health) and/or
• The existence of specific consultation and liaison/coordination (with referral criteria related to perinatal mental health).

consider to be a perinatal clinical psychology and/or first thousand days care program are shown in Table 1. When only the necessary criterion is met, as well as just one of the complementary criteria, it has been considered a partial program.

The organization, activities, and human resources of each program have been described. Ratios of clinical psychologists per delivery and neonatology cribs have also been calculated.

Results

Twelve hospitals of the Madrid Health Service were identified as having complete or partial programs (Table 1) of perinatal clinical psychology.

Tables 2 and 3 show a summary of the main characteristics of the perinatal clinical psychology and care programs for the first thousand days of life identified in this study.

Perinatal Clinical Psychology Programs and During the First Thousand Days of Life in High-Complexity Hospitals of the Madrid Health Service

The Hospital Clinic San Carlos has two programs in alliance and coordinated in perinatal and neonatal mental health care, the Neonatal Clinical Psychology Program of the Neonatology Service for more than 35 years (Cuellar-Flores & Valle, 2017) and the Perinatal Mental Health Interconsultation and Liaison Program of the Psychiatry and Mental Health Service in Gynecology-Obstetrics since 2021. The main activities are individual/couple/family psychological care for people undergoing assisted reproduction, pregnant women, mothers and babies in postpartum, and perinatal and neonatal bereavement, families of hospitalized neonates, and outpatient follow-up of these same families and their children up to two years of age.

The Perinatal Mental Health Interconsultation and Liaison Program of the Hospital General Universitario Gregorio Marañón offers psychological and/or psychiatric support and follow-up to families in Neonatology and Obstetrics during admission and on an outpatient basis. Psychological intervention includes individual, group, and/or family care. It is also provided to couples undergoing assisted reproduction, as well as couples facing prenatal diagnosis of malformation or syndromes, difficulties in postpartum or during early parenting with emotional and functional repercussions. There is a specific subprogram for dealing with perinatal bereavement, as well as for the health personnel involved, and group or individual intervention for families in the process of a new pregnancy, following a perinatal loss.

The initiation of the Perinatal Mental Health Interconsultation and Liaison Program at Hospital Puerta de Hierro (Majadahonda) has been previously described (Olza & Palanca, 2012; Olza et al., 2014). It was first developed in 2009 and since 2018 a new program was launched with psychological/psychiatric support during pregnancy and postpartum, in neonatology and in perinatal bereavement. Three psychotherapeutic groups have been developed: care for pregnant women (with a heterogeneous profile), care for postpartum mothers and babies (at risk of postpartum depression, posttraumatic symptomatology, and/or difficulties in bonding), and care for perinatal bereavement. It also responds to interconsultations that are requested individually.

The Perinatal Mental Health Interconsultation and Liaison Program of La Paz Hospital attends pregnant women, puerperal women, and families in Neonatology, after fetal death before birth or neonatal mortality, risk pregnancies due to fetal diagnosis or psychopathology in the mother, during hospitalization and in outpatient consultations. Also, neurodevelopmental monitoring and assessment is performed on neonates at biological risk up to two years of age.

The Child and Adolescent Mental Health Unit of the Hospital Universitario 12 de Octubre has a Perinatal Mental Health Program, called "1000 First Days Program" (for care from pregnancy to two years of age of the baby), which offers support and follow-up by a multidisciplinary team (clinical psychology, psychiatry, social work, and pediatric nursing) to women with perinatal losses, pregnant women, puerperal women, and families with newborns admitted to Neonatology. This program receives referrals from the Gynecology-Obstetrics and Neonatology Services. This intervention is part of an Interconsultation and Liaison Program, with post-home discharge outpatient consultations. Care is provided in the form of individual/family consultations, with plans to start psychotherapeutic groups in the coming months.

Clinical Psychology Programs for Perinatal and First Thousand Days of Life in Medium and low Complexity Hospitals of the Madrid Health Service

The Perinatal Mental Health Interconsultation and Liaison Program of the Hospital de Getafe has three programs of neonatal, perinatal, and postnatal clinical psychology. The first program was developed in 2008 (García-Villanova et al., 2013). Preterm infants born before 32 weeks of gestation and their families were included in the early care evaluation and follow-up program. In 2021, families in perinatal bereavement (from 22 weeks of gestation) or neonatal bereavement began to be attended in interconsultation. As of March 2023, the presence of clinical psychology in the hospital was expanded, and two programs for perinatal and postnatal care were launched. The first program treats pregnant women with affective and/or anxious symptoms who are being followed up in Obstetrics or admitted to the maternity ward. Finally, when the perinatal or neonatal psychology program detects a situation of parental emotional vulnerability that may affect parenting and parent-baby bonding, outpatient follow-up is offered until the baby is 2-3 years old.

The Perinatal Mental Health Interconsultation and Liaison Program of the Príncipe de Asturias Hospital (Alcalá de Henares) is integrated as one of the liaison programs of the Interconsultation Service. The team is multidisciplinary and is staffed by a psychiatrist, two adult clinical psychologists, and a child and adolescent clinical psychologist. There is no professional dedicated exclusively to the program, as all of them share the activity with the rest of the liaison

Table 2
Summary of the Main Characteristics of Good Practice Programs in Perinatal Clinical Psychology in the Community of Madrid

	San Carlos Clinical Hospital	Gregorio Marañón General University Hospital	La Paz Hospital	Doce de Octubre Hospital (I)	Puerta de Hierro Hospital	Jiménez Díaz Foundation Hospital
Characteristics of the services						
• neonatology cribs	11 NICUs (Level IIB) and 8 intermediate care units	23 NICUs (Level IIC) and 38 intermediate care units	24 NICU (level IIC) and 37 intermediate care units	19 NICU (level IIC) and 22 intermediate care units	6 NICU (Level IIIA) and 8 intermediate care units	4 NICUs (Level IIIA) and 10 intermediate care units
• annual deliveries	1,618	4,923	5,170	3,646	2,590	1,311
Scope	Families of neonates at high risk for morbidity and mortality and neurodevelopmental disorders and mothers/fathers with psychological symptoms. Pregnant women with psychopathology Women and men in assisted reproduction with clinical symptomatology Families after perinatal or neonatal death and repeat miscarriages Postpartum mothers and infants with symptomatology or risk factors	High-risk pregnancies and threats of preterm delivery Perinatal losses and repeated miscarriages Families of neonates with emotional difficulties Limitation of therapeutic effort Women and couples with psychopathology and fertility problems Diagnoses of malformation/cardiovascularities Pregnant women up to the first year of life with anxious/depressive symptoms Couples seeking a new pregnancy after a perinatal loss	Families of premature infants and diagnosis of chronic/severe illness. Women after fetal death before childbirth or of neonates Risk pregnancies due to fetal diagnosis, maternal pathology (due to psychopathology or emotional vulnerability due to risky gestation) or difficulties in establishing a bond with the baby. Accompaniment of families of the death of an infant	Families of hospitalized neonates Families after a perinatal death Pregnant women with psychopathology High-risk pregnancies Pregnancies diagnosed with fetal malformation Mothers and infants (up to two years of age) with psychopathology in the mother and difficulties in bonding with the baby.	Families of hospitalized neonates Families after a perinatal death Pregnant women with psychopathology, high risk pregnancies Women and men in assisted reproduction with psychological disorders Postpartum mothers and babies with emotional vulnerability, difficulties in bonding with the baby.	Families of hospitalized neonates Families after a perinatal death Pregnant women with psychopathology, high risk pregnancies Women and men in assisted reproduction with psychological disorders
Referrals	Neonatologists, obstetricians, midwives, and nurses	Obstetricians and neonatologists	Obstetricians, neonatologists, and geneticists.	Neonatologists and obstetricians/gynecologists	Neonatologists and obstetricians	Neonatologists, obstetricians, psychiatrists, and clinical psychologists
Context in which the activity is carried out	OGS, NS	OGS, NS	OGS, NS	OGS, NS	OGS, NS	OGS, NS
Professional coordinating the program	PEPC	PEPC	PEPC	PEPC	PEPC and psychiatrist	PEPC and psychiatrist
Human resources (2)	2 PEPC (0.75 FTE in Neonatology and 0.85 FTE in Obstetrics) Psychiatrist	1 PEPC (0.85 FTE) 1 psychiatrist (0.20 FTE) Mental health liaison nursing	1 PEPC (0.5 FTE) 1 psychiatrist and 1 nurse specialized in mental health (includes other consultation programs)	2 PEPC (1 FTE) 1 TS (1 FTE) 1 nurse specialized in pediatrics (1 FTE) 1 psychiatrist (0.25 FTE)	1 PEPC (0.5 FTE) 1 Psychiatrist (0.5 FTE)	1 PEPC (0.20% FTE) (includes other inter-consultation programs) 1 psychiatrist Midwives
Start date	Neonatology: 1990s-1990s Obstetrics: 2021	Neonatology: 1990s Perinatal Mental Health: 2018	Neonatology: 1980s	2023	2011	2023
Organizational and functional unit	Services of Neonatology MHS (organic) and of Gynecology and Obstetrics (functional)	MHS	MHS	MHS	MHS	MHS
Main activities	<ul style="list-style-type: none"> Individual/family/couple psychological assessment and intervention (inpatient, outpatient) Assessment and intervention with families of newborns after discharge (first thousand days) Assessment and intervention with perinatal losses (hospitalization, outpatient) 	<ul style="list-style-type: none"> Psychological assessment and intervention for women and couples (hospitalization, outpatient clinics) Group and individual attention to perinatal bereavement and the following pregnancy Attention to mothers and fathers of babies up to one year old admitted to the pediatric ward with psychopathology 	<ul style="list-style-type: none"> Developmental assessment of large preterm infants Psychotropic intervention for families (hospitalization, outpatient) Perinatal bereavement support Care of high-risk gestations or fetal diagnoses Therapeutic groups for pregnant women Perinatal Bereavement and emotion regulation groups for women with repeated ART failures 	<ul style="list-style-type: none"> Psychological assessment and intervention during hospitalization Individual attention to perinatal bereavement, pregnant women with anxious-depressive symptomatology and postpartum mothers and infants at risk of psychopathology (outpatient clinics) Group realization forecast 	<ul style="list-style-type: none"> Individual psychological assessment and intervention (hospitalization, outpatient clinics) Group attention to perinatal bereavement, pregnant women with anxious-depressive symptomatology, and mothers and babies at risk of psychopathology in mother and/or baby 	<ul style="list-style-type: none"> Group and individual intervention of pregnant women with emotional symptoms Individual intervention for women/men in perinatal bereavement
Protocols/procedures	Protocol for end-of-life and neonatal and pediatric death care Psychological care programs in neonatology Elaborating a protocol for psychological care in assisted reproduction	Perinatal bereavement care protocol Program of psychological care in neonatal bereavement and in the follow-up of new pregnancies with a history of perinatal loss.	Protocol for the accompaniment of couples with antepartum fetal death within the Perinatal Mental Health Program	Collaboration in the perinatal bereavement care protocol	Perinatal bereavement care program	Creation of clinical pathways
Other activities	Continuing education on bereavement care (multiprofession) Clinical sessions Research PIR teaching collaboration	Continuing education on gender violence in pregnancy Communication training for residents Clinical sessions Research PIR teaching collaboration	Continuing education in perinatal field Communication skills workshops to obstetricians Clinical sessions Teaching collaboration and PIR training Participation in the hospital's Perinatal Committee	Perinatal continuing education Resident training Clinical sessions Participation in neonatology parenting school research	Organization of perinatal mental health refresher courses Participation in the perinatology committee Research Continuing education in communication and bereavement PIR teaching collaboration	PIR teaching collaboration

Note. High-complexity hospitals: * 2020 data <http://observatorioresuladad.sanidad.madrid.org/Hospitales/DatosGenerales/Tabla.aspx?ID=86>; (1) This program is currently being initiated, the information provided is part of the proposal to be developed; (2) Full-time equivalent days (FTE); NICU: Neonatal Intensive Care Unit; the levels correspond to the classification by complexity -Pérez-Munizant et al., 2023; OGS: Obstetrics-Gynecology Service; NS: Neonatology Service; PEPC: Specialist Psychologist in Clinical Psychology; MHS: Mental Health Service; PIR (in Spanish): Psychologist Resident Intern

Table 3
Summary of the Main Characteristics of Good Practice Programs in Perinatal Clinical Psychology in the Community of Madrid, Medium and low Complexity Hospitals

	Fuenlabrada Hospital	Getafe Hospital	Príncipe de Asturias Hospital (Alcalá)	Villalba Hospital	Infanta Cristina Hospital (Parla)	Infanta Leonor Hospital
Characteristics of the services						
• Neonatology Cribs	14 (Level IIB)	8 NICUs (Level IIIA) and 12 intermediate care units	10 NICU (Level IIIA) and 9 intermediate care	10 (Level IIB)	10 (Level IIB)	7 (Level IIB)
• Annual deliveries	1,332	1,347	1,463	675	1,238	1,758
Scope	Families of hospitalized neonates Mothers/fathers after perinatal death	Families of hospitalized neonates at high risk for morbidity and mortality and neurodevelopmental disorders and/or mothers/fathers with psychological symptoms. Mothers/fathers after perinatal death Pregnant or postpartum women with affective or psychotic disorders.	Women and men undergoing fertility treatment. Pregnant women with psychopathology. Families with psychological distress and psychopathology including mothers/fathers with Severe Mental Disorder (SMD) in follow-up in other mental health network units. Families after a perinatal death. Families with neonates at high medical or psychosocial risk.	Mothers/fathers after perinatal death Pregnant women with moderate psychopathology Mothers/fathers of infants with psychopathology	Mothers/fathers after perinatal death Pregnant women with moderate psychopathology Mothers with mild to moderate psychopathology associated with diagnosis of fetal birth defects with psychopathology	Mothers/fathers after perinatal death with psychopathology High-risk pregnant or postpartum women with psychopathology. Mothers/fathers after perinatal death diagnosis of fetal birth defects with psychopathology
Referrals	Neonatologists and obstetricians	Neonatologists and obstetricians	Neonatologists and obstetricians; mental health network professionals; neonatologists and obstetricians; mental health network professionals	Neonatologists and obstetricians	Primary care physician, neonatologists, obstetricians, psychiatry/clinical psychology	Neonatologists and obstetricians Midwives
Professional coordinating the program	PEPC	PEPC	PEPC and psychiatrist	PEPC	PEPC	PEPC and psychiatrist
Context in which the activity is carried out	OGS, NS	OGS, NS	OGS, NS, Demand Interconsultation, and outpatient liaison program	OGS, NS	Mental health center	OGS, NS
Human resources (1)	1 PEPC (0.5 FTE) (includes other inter-consultation programs)	1 PEPC (0.45 FTE)	3 PEPC (0.75 FTE) 1 psychiatrist (0.25 FTE) (includes other interconsultation programs)	1 PEPC (0.05 FTE)	1 PEPC (0.05 FTE)	1 PEPC (0.20 FTE) (includes other inter-consultation programs) 1 psychiatrist obstetricia pediatrician 2 midwives
Start date	2022	Psychological care in prematurity: 2012 Perinatal mental health program: 2023	Newborn care program since 2013 Perinatal bereavement care since 2015 Perinatal mental health program since 2022	2022	2019	Psychological care: 2022 Perinatal intervention program: March 2021
Organizational and functional unit	MHS	MHS	MHS	MHS	MHS	MHS
Main activities	<ul style="list-style-type: none"> Psychological assessment and intervention with families of hospitalized neonates and psychopathology Psychological assessment and intervention with families after perinatal death 	<ul style="list-style-type: none"> Individual/family/couple psychological assessment and intervention. (inpatient, outpatient) Psychological assessment and intervention with families of newborns after discharge (first 1,000 days) 	<ul style="list-style-type: none"> Individual/couple psychological assessment and intervention (inpatient, outpatient) Psychological assessment and intervention with families of infants with psychopathology Psychological assessment and intervention with families of hospitalized neonates Psychological assessment and intervention with families after perinatal death 	<ul style="list-style-type: none"> Individual/couple psychological assessment and intervention (inpatient, outpatient) Psychological assessment and intervention with families of infants with psychopathology 	<ul style="list-style-type: none"> Individual/couple psychological assessment and intervention (inpatient, outpatient) Psychological assessment and intervention with families after perinatal losses Perinatal bereavement group (in anticipation) 	<ul style="list-style-type: none"> Individual/couple psychological assessment and intervention (inpatient, outpatient) Psychological assessment and intervention with families after perinatal losses Perinatal bereavement group (in anticipation)
Other activities	PIR teaching collaboration	Clinical sessions Supervision of the continuing care program (early hospital care). Direction and participation in research projects PIR teaching collaboration	Clinical sessions and interdisciplinary training courses. Teaching collaboration and PIR/MIR/EIR Hospital perinatal committee on a weekly basis. Coordination with the rest of the MH network units. Coordination with the Social Work team	PIR teaching collaboration	Teaching collaboration and PIR training	PIR teaching collaboration

Note. * Data 2020 <http://observatoriosresultados.sanidadmadrid.org/HospitalesDatosGenerales/Tabla.aspx?ID=86>; (1) Full-time equivalent days (FTE); NICU: Neonatal Intensive Care Unit, the levels correspond to the classification by complexity -Pérez-Mañáizuri et al., 2023; OGS: Obstetrics-Gynecology Service; NS: Neonatology Service; PEPC (in Spanish): Clinical Psychology Psychologist; MHS (in Spanish): Mental Health Service; PIR (in Spanish): Resident Psychologist Intern; MIR (in Spanish): Resident Medical Intern; EIR (in Spanish): Resident Nurse Intern

processes. The process has been in the implementation period since 2013 (with the start of systematic care in Neonatology by the child and adolescent clinical psychologist), with the incipient development of the program beginning in 2022. None of the activities planned for the future have yet been implemented, including a psychotherapeutic group for families with psychological difficulties in early parenting. At present, individual and family care is aimed at patients with psychological care needs in fertility treatments, pregnancy (situations of perinatal pathology and severe mental disorder), childbirth, and postpartum, as well as perinatal bereavement in individual, family, and group format until the patient is discharged or referred.

In addition, there are partial perinatal clinical psychology programs in other hospitals in the Community of Madrid. Examples include the Fuenlabrada Hospital (perinatal bereavement care and its planned extension to neonatology families in an interconsultation program), the Villalba Hospital (perinatal bereavement group and agenda in the Mental Health Center), and the Infanta Cristina Hospital in Parla (specific perinatal mental health consultation and perinatal bereavement group in the Mental Health Center). Other hospitals are planning to start specific activities or expand them, such as the Infanta Leonor (individual and family psychological care for high-risk pregnant women and puerperal women with perinatal psychopathology and families after perinatal bereavement in an interconsultation program, with plans to initiate a perinatal bereavement group) and the Fundación Jiménez Díaz (psychoemotional care group during pregnancy and clinical pathways in an interconsultation program).

Table 4 shows the ratios of clinical psychologists and the volumes of care for the programs described above.

Conclusions

In the Community of Madrid, most high complexity public hospitals (Observatorio de Resultados del Servicio Madrileño de Salud, revised 2023) have specific perinatal clinical psychology programs. Hospitals of medium and low complexity are also gradually incorporating this type of program, albeit through partial programs. In general, there is a consolidation of specialized psychological care in perinatal care (e.g., La Paz, Clínico San Carlos, Gregorio Marañón, and Puerta de Hierro Hospitals) and its expansion or extension (e.g.

Doce de Octubre, Infanta Cristina, Fundación Jiménez Díaz, and Getafe Hospitals). On the other hand, all hospitals in the region with level IIIB and IIIC (or high complexity -Pérez-Muñuzuri et al., 2023) neonatology services have specific perinatal and neonatal mental health interconsultation and liaison programs.

Almost all of the programs described depend organizationally on the psychiatry and mental health service of the hospitals, although most of them are carried out through interconsultation programs and outpatient consultations within the obstetrics and neonatology services of the hospital. The recommendations of guidelines and expert groups (Austin et al., 2017; NICE, 2018; WHO, 2022), also in Spain (Conecta Perinatal, 2023; Rodríguez-Muñoz et al., 2023) are concerned with incorporating specific and integrated programs in maternal and child services, using clinical psychology professionals, with the objectives of improving the training of professionals, prevention, detection (and underdiagnosis), and in general, intervention in perinatal mental health problems. In Spain, and therefore in the Community of Madrid, mental health centers offer psychological assessments and interventions to people with mental disorders. However, the ordinary waiting lists of these centers (Cuéllar-Flores et al., 2022) are incompatible with adequate early care during this period, in addition to the fact that the preventive nature of the approach may be compromised as it is not integrated with maternal and child services and primary care. Moreover, if there are no programs with defined referral criteria, the risk of underdetection increases (Rodríguez-Muñoz et al., 2023; WHO, 2022). From the point of view of the authors, this integration must be carried out at both the primary and specialized care levels, with a phased model of intervention (Atkins et al., 2022). Not intervening has a high cost, both at an emotional level, due to the consequences it generates, as well as in economic terms for the healthcare system (Bauer et al., 2014).

The majority of referrals to the programs are made by physicians, with the possibility of referral from nursing being a minority. This responds to the traditional organization of requests for consultation in Spanish hospitals, and possibly also to the work overload of the professionals who develop these programs.

In this study we have been able to identify important differences in terms of the ratio of professionals, so that there are hospitals in which

Table 4
Clinical Psychology Ratios and Volume of Attendance in Perinatal Clinical Psychology and First 1,000 Days Programs

	San Carlos Clinical Hospital	Gregorio Marañón Hospital	Puerta de Hierro Hospital	Príncipe de Asturias Hospital (Alcalá)	H. La Paz	Doce de Octubre Hospital
Clinical Psychology Full Day Ratios	0.78/20 beds Neonatology 0.46/1000 deliveries	0.43/20 beds Neonatology 0.17/1000 deliveries	0.36/20 beds Neonatology 0.10/1000 deliveries	0.5/20 beds Neonatology 0.5/1000 deliveries	0.08/20 beds Neonatology 0.16/1000 deliveries	0.48/20 beds Neonatology 0.27/1000 deliveries
Number of family units that received care January-June 2023	Neonatology: 90 Obstetrics: 50	Neonatology: 20 Obstetrics: 90	(Not valued by clinical psychologist on leave of absence without full replacement)	Neonatology: 9 in the interconsultation service; 10 in the outpatient liaison service. Obstetrics: 14 in the interconsultation service; 20 in the outpatient liaison service.	Neonatology: 30 Obstetrics: 80	(Not assessable because the program is still in its infancy)
	Fuenlabrada Hospital	Getafe University Hospital	Jiménez Díaz Foundation	Villalba Hospital	Infanta Cristina Hospital (Parla)	Infanta Leonor Hospital
Clinical Psychology Full Day Ratios	0.35/20 beds Neonatology 0.18/1000 deliveries	0.22/20 beds Neonatology 0.16/1000 deliveries	0.14/20 beds Neonatology 0.06/1000 deliveries	0.07/1000 deliveries	0.04/1000 deliveries	0.57/20 beds Neonatology 0.11/1000 deliveries
Number of family units that received care January-June 2023	10	(Not assessable because the program is still in its infancy)	(Not assessable because the program is still in its infancy)	(Not assessable due to clinical psychologist on leave)	17	(Not assessable because the program is still in its infancy)

it is well below the recommended ratio (Atkins et al., 2022; Royal College of Psychiatrists, 2021), which translates into overloaded care and lower quality care in terms of frequency. Therefore, the data indicate that geographic barriers to access to specific perinatal mental health care exist in the region. Depending on where a person lives, specialized psychological care will be more or less accessible (taking into account the ratio of professionals) or more or less specialized (since there are hospitals that do not have specific programs).

Half of the hospitals have complete programs and the other half have only partial programs. The activities carried out cover direct patient care, all of them individually, but it is also offered in groups in four hospitals. Training and teaching activities and collaboration with the organization are also carried out. In six hospitals, written programs/procedures/protocols have been developed that can contribute to reducing unnecessary variability in clinical practice. On the other hand, most of the programs are developed and coordinated by a single clinical psychology professional (except for in three hospitals).

Based on the analysis of the characteristics of the programs, as well as the literature review and the experience of the authors, we have developed a set of recommendations for good practices in perinatal clinical psychology and care for the first thousand days (Table 5). Quality perinatal mental health care, in addition to being integrated and specific, should be coordinated with community resources, and have a phased prevention approach (Austin et al., 2017).

Among the limitations of this work is that it is a descriptive and incidental study, dependent on the information provided by the people contacted; it does not use a systematic procedure. In addition, it was not possible to contact mental health professionals from four of the 20 hospitals in the region. Future perspectives include extending this descriptive study to the rest of the Autonomous Communities. Also to examine the programs in terms of health outcomes and patient experience. In addition to studies on the efficacy of perinatal mental health interventions, studies of effectiveness, quality indicators (e.g. accessibility, appropriateness), and health outcomes of the interventions are needed.

In short, although the field of perinatal mental health care is currently being strengthened (several hospitals are opening partial or complete mental health programs), there is still much room for improvement. In the SERMAS public network, necessary and relevant work is being carried out for psychological care during the perinatal period, which has experienced an important boost in recent years and which must have a focus on consolidation and, above all, growth.

Conflict of Interest

The authors declare that they have no conflict of interest.

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Table 5

Recommendations From the Authors of Best Practices in Perinatal Clinical Psychology and Child Care in the First 1,000 Days

- Programs for perinatal mental health care and the first thousand days should be available in all hospitals in the region, including screening criteria, specific care activities, and a permanent program coordinator.
- Psychological care for perinatal mental health and the first thousand days in the health care setting should:
 - Be integrated with gynecology-obstetrics, neonatology and mental health, and primary care services
 - Be specific (training and professional specialization), accessible (eliminate barriers to access), and not have a waiting list
 - Develop selective (people at risk of poor mental health and severe stress) and indicated (people with symptoms) prevention activities and collaborate in universal prevention activities
 - Be coordinated with community resources (social care and educational network) and with primary care
- Ratios of clinical psychology professionals for perinatal mental health programs should aim for 1/20 neonatal cribs and 0.80/1000 births
- Psychological care for perinatal mental health and the first thousand days in the healthcare setting should contribute to comprehensive emotional care in centers and services through:
 - Training, collaboration, and coordination with other healthcare professionals (such as physicians, nurses, nursing assistants, midwives, in primary and specialized care)
 - Participation in institutional humanization actions and elimination of the stigma associated with perinatal mental health problems
 - The development of multidisciplinary procedures/protocols in hospitals and health centers of:
 - Neonatal end-of-life care and support for perinatal and pediatric death
 - Early and proactive detection of mental health problems during gestation and postpartum period

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