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The Influences Related with the Frequency of Neonatal Suffocation in Babies at the Maliana Hospital Timor-Leste (2025)

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Abstract

Introduction: Perinatal suffocation is considered one of the major causes of brand-new deaths and neurological sequelae in babies, resulting from maternal-fetal conditions or complications during childbearing. The description by the Maliana Hospital showed that 201 babies died after birth and that 151 died at the age of 0-6 days and 8 died aged 7 to 28 days.

Research Objective: To analyze the issues related with the frequency of neonatal suffocation at the Maliana Hospital, Municipality of Bobonaro Timor-Leste.

Research Methodology: Reconducted a descriptive and analytical study of quantitative approach, collecting a sample of 100 records of babies of mothers with risk issues and used the Network of Reflection on Register of the midwife and the medical doctor.

Research Results: As motherly risk influences, 61% of mothers have parity higher than four broods, and maternal pathologies in the sample include Hypertension 37%, Preeclampsia/Eclampsia 25%, Anemia 25% and Diabetes 13%. Regarding the Hypertension, with mild degree 63%, and severe 38%; Preeclampsia/severe eclampsia 60% and mild 40%; in the degree of Mild Anemia (7 to 9 g/dl) 88%, and severe (<7g/dl) 12%; Type I Diabetes is 54% and Gestational Diabetes 46%; finally, premature membrane rupture is found in 51% of the sample. As for fetal risk issues for neonatal suffocation, polyhidrosis 30%, Man Condon 13%, Infection 31%, Weight <1500 grams 13%, Inadequate weight for gestational age 28%. In the risk influences on associated with delivery, we verified Forceps Delivery 13%, Prolapse of the cord 9% and Short Umbilical Cord 8%. In the evaluation of APGAR indices at the 1 minute verified or severe in 48 babies 62% and mild 39%; at 5^a minute, the APGAR Index was grave at 59% and 41%, lastly, it was found that in the APGAR index at 10 minutes, then Gave classification decreased

4%, and leave or moderate 7%. At 10 minutes 89% of the sample.

Conclusion: Hospitals, health centers and Integrated Family in SISCa, should promote the four minimum visits for pregnant women, in order to create a program of activities, such as home visits to define the rich influences of mothers. Pregnant women need to deliver with midwives and mothers in a controlled and safe environment to reduce the brand-new and post-neonatal mortality rate according to government by Ministry of Health program (Tilman CB., et al, 2025).

Keyword: Brand-new suffocation, Motherly influences, fetal factors, issues of the work of the pair to and newborn factors, Maliana Hospital of Municipality Bobonaro.

Introduction

tion can be unspoken as a failure in the founding of ing Timor-Leste⁴. Mozambique, São Tomé and normal breathing during the period of birth, due to Principe, Timor-Leste, Guinea-Bissau and Brazil the impairment of oxygenation, at the time of de- were evidenced by the decline in their infant morlivery and in the period of expulsion. Presently, tality rates⁵. This is justified, perhaps, by the existmaternal and infant mortality, as an indicator of ence in our Constitution of the Democratic Repubpublic health issues, is an important global prob- lic of Timor-Leste in 2002, Part II, Title I, Article lem. One of the health problems that occur fre- 18, on the protection of the child. The child is entiquently at the time of birth of the baby is infant tled to special protection by the family, the commortality as a result of asphyxiation¹. If immediate munity and the Timor-Leste State cited by (Tilman nursing and midwives care is not provided to new- CB., 2025)⁶. The 2009-2010 Public Health Survey borns with neonatal suffocation, they will have a in Timor-Leste shows that the maternal mortality low probability of survival. When the newborn has rate is 557 per 100,000 live births⁷. Based on this neonatal suffocation, the baby cannot breathe spon- description of Statistics in Health carried out by the taneously and regularly, it is found that babies who Office of Information System in Health and Epideexperience fetal distress before birth usually suffer miologic Surveillance under Ministry of Health, in from asphyxiation². The main causes of brand-new the year 2022, the fertility rate is 5.7 children per mortality are intrinsically related to health and care woman of reproductive age, the rate infant mortalireceived before, during and after childbirth. Neona- ty is 44 per 1,000 live births and the post-neonatal tal asphyxia and birth trauma are usually caused by and neonatal mortality rate is 22 per r1. 000 live lack of medical follow-up and lack of access to ob- births. In the period of 2018, the number of neonastetric specialists, such as midwives who help at tal mortalities, more specifically related to the age home cited by (Tilman CB., et al, 2025).

1,000), die at the age of 30 days (neonatal) and Ermera with 18, Lautem 13, Liquica 12 and Ainaro

about 3.6 million (3%) of these babies have neona-Since a practical point of view, perinatal suffoca- tal suffocation newborn babies in all world includof 0 to 7 days, in health centers and in the reference and Maliana Hospital currently existing in Timor-According to World Health Organization (WHO, Leste, is of 116. In more detail you can see the data 2022) vision, every year 120 million babies born of each municipality: the Municipality of Dili with worldwide, out of a total of 4 million (32 per 36 dead neonates, Viqueque with 23, Suai with 14,

11. If we make a comparison between the years breathe spontaneously and regularly at birth ¹⁰. 2018 and 2019, in relation to the number of neo- However, babies often experience suffocation only nates killed in the Municipality of Bobonaro, we after childbirth. This problem is probably related to find that there was an increase of 73, in the number maternal health status, umbilical cord, problems of deaths⁸.

In the same document, the reports of the hospitals shortness of breath. Clinically it is a syndrome and health centers for the year 2018, report that 979 characterized by sponsion the severe decrease of brand-new children had a weight of less than 2500 gas exchange oxo at the level of placenta of dealgrams, and 203 died after birth. of the latter, 152 ings, which results in hypoxemia, hypercapnia and died aged 0-6 days and 9 died aged 7-28 days, that tissue hypoxia, with metabolic acidosis ¹¹. Perinatal is, in the neonatal period⁸. The retrim of the Mali- suffocation is a problem suffered by the fetus or ana Hospital, showed that 425 babies were born newborn (NB), due to monooxygenation or malweighing less than 2500 grams, of which 127 died perfusion of multiple organs. Perinatal suffocation after birth. of these, 100 died at the ages of 0-6 is an injury suffered by the fetus or NB due to poor days. ⁹ Based on the data presented above, we veri- oxygenation (hypoxia) and/or poor perfusion fied a high infant mortality rate in the Hospital, so (ischemia) of multiple organs. Lactic acidosis is we propose to research the issues associated with associated with hypoventilation and hypercapnia in the intention of neonatal suffocation n the Maliana the baby 12 . Hospital of Municipality Bobonaro Timor-Leste.

Research Objectives:

with the incidence of brand-new suffocation at the Effort); cord blood acidosis; cardiotocographic reg-Maliana Hospital Timor-Leste.

Specific objectives are:

- suffocation;
- mother and brand-new fetus or baby;
- bies.

with childbirth of problems in infants. Suffocation means, etymologically, shortness of breath the u

Perinatal unconsciousness has been defined as a delay in spontaneous breathing; low APGAR index General objective: To analyze the issues associated (Appearance Pulse Grimace Activity Respiration istry abnormalities and also as clinical expression of post-asphyxia brain injury hypoxic-ischemic encephalopathy. There are evident signs that the Identify the incidence of brand-new asphyxia or prognosis after intrapartum asphyxia has improved in recent years cited by (Tilman CB., et al, 2025)¹³. Describe the issues associated with brand-new The remaining cases, postpartum, are secondary to suffocation or asphyxia related to the woman, pulmonary, cardiovascular or neurological diseases of newborns (NB). Pathophysiological conditions To verify the relationship of brand-new suffo- that cause suffocation include lack of oxygen from cation or asphyxia with the work performed by cells, excessive retention of carbon dioxide, and the midwife who attends the deliveries or ba- metabolic acidosis. Babies who have suffered the most from the suffocation process are in a secondary apnea stage. Secondary apnea can quickly cause death if the baby is not really assisted by arti-

Theoretical Framework

Suffocation is a baby state in which it does not ficial respiration and, when necessary, by compres-

sion of the heart. Throughout secondary apnea, decreased cardiac frequency and blood pressure cause a change in skin color, from blue to white, in an effort to maximize blood flow to organs such as the heart, kidneys and glands that affect brand-new children WHO, 2022; Tilman CB., et al, 2025).

<u>Motherly influences:</u> Parity (more than 4 children) Primiparity (over 35 years) Diabetes (any class) Hypertension	<u>Fetal issues:</u> Gematria Polyhydramnios Frequential or ab- normal heart	Labor influences: Use of forceps (other than relief) Cesarean Prolonged Laboure	Brand-new issues Childbirth suffo- cation Birth weight un- suitable for		
 Pris-eclampsia/eclampsia Anemia (hemoglobin rate below 10 g/dl) Prolonged premature membrane rupture Placenta previa Premature placental detachment Prepartum hemorrhage 	rhythm Intrauterine growth ritardando Premature delivery	Cord prolapses Umbilical cord circu- lars Cohort umbilical ca- nal Dystonic childbirth	gestational age Skin, nails and umbilical cord impregnated with meconi- um Signs of respirato- ry distress		
Incidence of neonatal suffocation in newborns (NB) (Infants who do not cry, without spontaneous breathing)					

Table 1 - Brand-new suffocation actors (Coxey, 2019)¹⁵

Intervention to prevent neonatal suffocation: Maintain Heat; position the baby's head correctly; Clean the airways (aspiration); Provide ventilation; Resuscitation care

amniotic fluid and pH of fetal blood. The conditions of the NB are evaluated in sequester, through three signs: respiration, heart rate c and color. The Apgar Index (Appearance Pulse Grimace Activity Respiration Effort) serves as a numerical and very practical report to describe the birth condition and recovery of babies when revived by health professionals cited by Tilman CB., et al, 2025).

Table. 2 - APGAR index sneezing.

Sign	0	1	2
Heart Rate	Absent	<100	>100
Respiration	Absent	Irregular	Crying hard
Muscle Tone	Stab wounds	Some bending of exterminators	Good drive
Reflexes (Nasal Stimulus)	Absent	Some movement	Sneezing
Color	Cia noise and/or pale	Rosy body and cyanotic extremities	Rosy

Apgar index value scores: Done at the 1st and 5th minute after birth¹⁷.

- 7 to 10 = NB is fine (indicates that the child has no difficulty);
- 4 to 6 = NB requires vigilance, perhaps resuscitation (indicates moderate difficulty);
- < 4 = immediate resuscitation of the NB (indicates severe suffering).

Neonatal asphyxia can be prevented with the correct interventions, in the care of the NB, according to the following steps:

Step 1: P position the baby's head correctly: Cor- **Research Methodology** under your neck or shoulders.

Step 2: L odd airways (aspiration)

You should not suck the mucus more than data of newborns, cause apnea.

Step 3: Ventilation

- gers to adjust the lower jaw of the infant gently table. against the mask; If the mask is not well adapted, the air comes out of the side areas of **Research Result**. slowly in the proportion of 2/3 insufflations, der Male and Female. verifying that the chest wall expands each time the pumping bag is inflated;
- Always look at the baby's chest wall during ventilation to check if the baby has made the pulmonary expansion movement through the

ventilation or if it is already normally breathing alone¹⁸.

rect position can open the airways: plac- It uses descriptive and analytical method of quantiing the baby's head to a small extent may tative approach in the application of research. Popbe enough for the baby to start breathing ulation is a collection of individual units, which (do not extend or flex the neck excessive- can be people with one or more characteristics in ly); To maintain the baby's head position, common, which pertains analyze. In this research you can place a small cloth that is folded or scan that, the population corresponds to all mothers and newborns with risk influences associated with neonatal suffocation hospitalized in the Maliana Hospital Timor-Leste wingers. The sam-First do the aspiration of the mouth, and only ple number is 100 records whose births occurred after the nose; quickly, but carefully, use a 6- from 1 October to 30 December 2024. The data 8F caliber catheter and insert < 5 cm into the collection instrument used for the Gilgeous obsermouth and < 3 cm into each nearing; The dura- vation of the midwife and the medical doctor. The tion of suction must not exceed > 20 seconds; observation grid has 5 blocks, as follows: Block I: with 8 registration parametwice. Note: Prolonged and deep aspiration can ters; Block II: maternal influences, with 20 registration parameters; Block III: fetal issues, with 12 registration parameters; Block IV: labor and delivery influences, with 11 registration parameters; With baby lying in the side position and with Hollow Belva: neonatal issues, with 9 record pathe head in extension, put on the mask, adapted rameters. Data analysis we will investigate or use to the pumping bag, covering the baby's face: simple descriptive statistics to the computer prouse your thumb and second finger to adjust the gram SPSS (Statistical package For the Social Scimask gently against the face. Use the other fin- ences)¹⁹ of version 24 in the results presented the

the mask. Insufflation should be carried out Graph 1. Distribution of re-born according to Gen-



AJMCRR, 2025

53%, while 47% of babies are male.

diagnosis of brand-new suffocation.

Sim 56%

Morte 19%

Não 25%



birth of brand-new.



Confirmation that the majority of women 61% had Leve has a high value of 10 (40%), according the more than four children, with the remaining 39% research result, 2025. four or fewer children.

Graph 4. Distribution of women according to ma- degree of anemia ternal pathologies.



Verification that the majority of babies are female The most frequent and presented pathology by women was Hypertension, in 37%, followed by Pre-eclampsia/eclampsia 25%. Women with Ane-Graph 2 Distribution of babies according to the mia also represent 25% of the sample, and the remaining women had Diabetes 13%, based on the research result. (2025).

> Table 3. Distribution of women according to the degree of hypertension.

Hypertension	F	%
Lightweight	23	6th 2
Serious	1 st	3rd 8 th
Total	37	100

this diagnosis (38%).

Graph. 3 Distribution of women according to the Table 4. Distribution of women according to preeclampsia/Eclampsia Pre-eclampsia/eclampsia degree.

Pre-eclampsia/eclampsia	F	%
Serious	1st 15 th	60
Lightweight	1st 0	40
Total	25	100

The maternal pathology pre-eclampsia/eclampsia, the one classified as Grave is the representative plus 15 (60%). However, pre-eclampsia/eclampsia

Table 5. Distribution of women according to the

Anemia	F	%
Lightweight (7 to 9g/dl)	2nd	88
Grave (< 7g/dl)	3	1st 2
Total	2nd 5 th	100

We think or according that in women with anemia, Graph 5. The time of premature rupture in memanemia Leve/moderate is more frequent 22 (88%), branes. with consequence/ grave 3(12%).

Table 6. Distribution of women according to the classification of diabetes according to type of the cases study.

Diabetes	F	%
Type I Diabetes Gestational Diabetes	7 6	54 46
Total	13	100



I'm a record five. The time of premature rupture of than 12 hours arose in 35 records, 51% of the sammembranes. Type one of diabetes 54% and gesta- ple, followed by rupture greater than 24 hours and tional diabetes 46%, based on research result, less than 6 hours, with 25% each. 2025.

We felt that premature rupture of membranes more

Table 7. Distribution of babies, according to fetal influences.

Fetal factors	F	%
Polyhydramnios		
Yes	30	30
No	70	70
Meconium		
Yes	13	13
No	87	87
Infection		
Yes	31	31
No	69	69
Newborn weight		
< 1500 grams	13	13
\geq 1500 to 2499 grams	19	19
2500 to 4000 grams	68	68
Birth weight unsuitable for gestational age		
Yes	28	28
No	72	72

The most representative factor is 31% infection, followed by polyhydramnios with 30% of the following. Fetal influence related to Amniotic Fluid nihonium appeared in 13% of the records. Regarding the weight of the NB related to gestational age, 28% presented inadequate weight, and of these 13% tin ham weight less than 1500 grams.

Table 8. The type of delivery and influences related to the umbilical cord.

Labor and childbirth	F	%
Type of childbirth		
Forceps	13	13
Cesarean	8	8
Spontaneous	78	78
Prolapse cord		
Yes	9	9
No	91	91
Short umbilical cord		
Yes	8	8
No	92	92

We found that the majority of babies were born by spontaneous delivery 78%, followed by delivery with Forceps, 13%, and by cesarean section with 8%. In 9% of the deliveries, Prolapse of the Cord occurred, and this situation is an emergency obstetrical that requires delivery by cesarean section, and in 8% of the deliveries there was a Short Umbilical Cord, a risk factor for the praetorium detachment of the placenta, on the basis of the research result cited by (Tilman CB., et al, 2025).

Table 9. Distribution of according to Indices then APGAR at the 1st and 5th minute.

APGAR Index	Apgar indices 1 minute		Apgar indices 5 minutes	
AI GAR IIdex	F	%	F	%
Lightweight (4 to 6)	29	38	40	59
Grave (<4)	48	62	28	41
Total	77	100	68	100

Regarding the APGAR Index at the first minute, the majority of the NB (62%), had a classification of Grave (AI<4) and 38% presented a Mild classification. At the fifth minute the APGAR Index reverted, in these two situations, to 40 records with classification moderate or Leve (59%) and 28 records (41%) with severe classification.

Table 10. Distribution of babies, according to indices APGAR at 10 minutes.

Apgar indices 10 minutes	F	%
Record 2 to 4	3	4
Take 4 to 6	6	7
Normal 7 to 9	72	89
Total	81	100

Discussion

The moment of birth is crucial for the baby, the brain is the most delicate and noble of the 3rd response of the human body. Since this is not the case, the neonatologist has to act quickly, because the lack of oxygenation can lead to serious sequelae such as cerebral palsy or other neurologic problems, if not quickly treated. This lack of oxygenation is defined as p and prenatal anoxia or neonatal suffocation One newborn care with asphyxia may present con- sion, proteinuria and edemas, in addition to other vulsions, weight loss accentuated by difficulty in alterations. In developing countries such as Timorstarting and maintaining breastfeeding and diffuse Leste, hypertension in pregnancy, broad or broad respiratorial service. Respiratory difficulty mani- sense, is one of the main causes of mortality. Acfests itself through a respiratory rate of less than 30 cording to the data obtained in this research, severe breaths per minute. Thus, it seems fundamental or preeclampsia/eclampsia presented 60% of the total basic to pay attention, especially to health person- of the 25 cases. Mildréeclampsia, diastolic blood nel (both midwives and physicians), the importance pressure is less than 100 mmHg, proteinuria is 1+ of women's health surveillance, especially during or 2+ in the reagent strip, many women have edepregnancy women, in order to reduce the presence ma in the face and hands and weight gain is obof pathology that may constitute a risk influence served. From Sousa (2019) severe preeclampsia for neonatal suffocation, such as hypertension and presents several signs and symptoms that indicate pre-eclampsia, providing health education to moth- the severity of preeclampsia, there are criteria that ers to avoid brand-new suffocation cited by (WHO, define it as those proposed by Picher and MacDon-2022; Tilman CB., at al, 2025)²¹.

disease during pregnancy and even during the fer- headache, epigastria and visual disorder. As the tile years of women 2². Complications resulting situation increases, cyanosis, pulmonary edema, from hypertensive disease are, alongside infection pain in the right hypochondria, thrombocytopenia and bleeding, the main cause of maternal death in (<100,000), microangiopathic hemolytic anemia, most specialized services. Gestational pretensions jaundice or abnormal liver function may occur, and correspond to cases of increased blood pressure, the pregnant woman may suffer from seizures. without proteinuria, after the 20th week of pregnancy, returning the blood levels elevated to nor- Specific competencies to prevent and treat this pamal in the post-partum period (12 weeks)²³. Late or thology include; identifying the risk issues for transient events or gestational hypertension, de- preeclampsia and eclampsia, obstetric and fetal defined as the development of increased pressure val-velopment, and tough care for seizure (Tilman CB., ues, occurring antepartum, labor or in the first 24 et al, 2025). In relation to prenatal consultations, hours preeclampsia or pre-existing hypertension. Normal cation among mothers who underwent up to 4 preblood pressure should return to normal within 10 natal 2⁵ Pre-eclampsia and eclampsia as a complidays after delivery²⁴.

higher maternal and perinatal morbidity and mor- found, and this is a known pathology, not those

cited by (WHO, 2022; Tilman CB., et al, 2025)²⁰. tality, characterized by the presence of hypertenald (2015): BP=160/110 mmHg in two shots with an interval of 6 hours (pregnant at rest), oliguria Hypertension is the most common cardiovascular (diuresis < 400 ml/day), proteinuria (> 5 g/24h),

post-partum, without other signs of there was a greater prevalence of babies with suffocation of hypertension that is present before pregnancy, or diagnosed before 20 weeks of gestation, Among all the pathologies that manifest or worsen which makes it imperative to control hypertension during pregnancy, preeclampsia/eclampsia is the throughout pregnancy and before childbirth 2⁵. In most frequent and the one that is accompanied by the sample studied verify, 88% of mild anemia was

gle fetus, maternal needs range from 800 to 1,000 amination of the NB to establish the therapeutic mg of iron, from 300 to 350 mg for the formation plan that best appropriates the situation²⁷. In the of the placental fetus unit, in addition to the present study, the records reveal that at the first amount available to expand the maternal hemoglo- minute, the majority of newborns (62%) had a sebin mass. About 90% of the total iron requirement vere classification, with APGAR index below 4, is used in the last trimester of pregnancy. Counsel- and 38% presented a mild classification (score being, education and help is needed for pregnant tween 4 and 6). However, in the five-minute evaluwomen to understand this need. Anemia in preg- ation, this situation reversed, moving to 40 records nant women can be defined as a condition in which with a levee rating (59%) and 28 records (41%) hand myoglobin levels are below normal 11gr %, with a severe rating. That is, after adequate interwhich can cause hypoxia and reduced blood flow vention to support the vital functions of the NB, to the uterus, which will lead to reduced oxygen particularly with regard to the respiratory, there flow to the placenta and fetus, and can use inter- was a recovery of the APGAR score. When we anruption of breathing. Diabetic patients are at high- alyzed the records of the APGAR index evaluation risk hypoglycemia the first three disulfide of the at 10 minutes, we found that most of the NB (89%) newborn, even when they eat well. Our sample pre- already had a normal score of 7/9, according to the sented 7 participants with type 1 diabetes (54%), scanning research result cited by (Tilman CB., et and 6 with gestational diabetes (46%). To reduce al, 2025). the impact on the mother, before conception, a careful evaluation of the presence of chronic com- Conclusion plications of diabetes should be carried out, as Perinatal unconsciousness is an injury suffered by some may lead to increased morbidity for the preg- the fetus or newborn (NB), due to poor oxygenanant woman. On the other hand, the abnormal met- tion or poor perfusion of multiple organs. From the abolic environment caused by hyperglycemia has a results of this study, comparing with the references significant impact on pregnancy and the fetus or in the literature, the issues associated with the ocbaby to have carefully, so this whole situation currence of neonatal suffocation were identified in should be treated and controlled before pregnan- this group of newborns: multiparity, hypertension, cv^{26} .

difficulties, interventions to prevent neonatal suffo- focation is made from the evaluation or evaluation cation include maintaining heat, positioning the of the five parameters that constitute the APGAR baby's head correctly, cleaning the breathing path- Index (Heart Rate; Breathing; Muscle Tone; Reways (aspiration) and allowing amici and breast- flexes; Color), scored from 0 to 2 according to the feeding to be important. If the difficulty is main- characteristics of each parameter that the newborn tained and suffocation is severe it may be neces- presents. As mentioned above, a9/10 APGAR insary to provide assisted ventilation. These interven- dex score at the first minute is considered optimal

pregnant in Timor-Leste. In pregnancy with a sin- neonatologist, who should perform a complete ex-

preeclampsia/eclampsia, anemia, premature rupture of membranes greater than 12 hours, polyhydram-When the newborn baby (NB) has mild breathing nios and infection. The diagnosis of neonatal suftions should be validated with the pediatrician or and reveals an NB without respiratory, cardiac and neuromuscular difficulties.

Bearing in mind the pattern referenced, the data 6. Ministry of Health (2019). Book Assistance obtained in our study reveal that, unfortunately, there is still a high number of newborns who have 7. an APGAR index between 4 and 6, at the 1st minute of life, which places them in the classification of severe to mild suffocation. Although we recog- 8. nize that, at the 5th minute of life there was a recovery in the APGAR score (reduction of 34 records in the severe classification and increase of two records in the levee classification) and that at the 9. 10th minute most newborns already had a score of 7/9, we have to mourn the death of 19% of the 10. UNICEF, (2017). Safe Childbirth Care Learnnewborns, who died before the 1st minute according to the records obtained, probably related to complications of pregnancy and/or childbirth, 11. Gonsalves, (2016). Perinatal smothering. Pediwhich makes it urgent to identify and establish concrete strategies aimed at reducing neonatal and 12. Zanonia, (2018). Perinatal Asphyxia Chapter of infant mortality, there is national and international level according to this study implementation in field conditions cited by (WHO, 2022; Tilman CB., 13. Sandra and Pires. (2017)., Perinatal Asphyxia et al, 2025).

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