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Current status of neonatal death in a second level of care hospital in the state of Mexico

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Abstract

Introduction: Concern for improving the health conditions of women and pregnant women as critical points, to improve the health of neonates, had already been previously analyzed. However, we observe that a series of factors continue to strongly influence the health systems of our country. Within these observations, it is detected that pregnant women still have failures in some of the critical links of care, despite the fact that strategies were suggested to improve opportunities for improvement in the field of care for women and women. Pregnant, for reproductive health. In order to positively impact and reduce neonatal death as well as neurological damage in newborns.

In previous analyzes it was possible to verify that by detecting these opportunities for improvement in the obstetric care process, new strategies were found each time to avoid factors that seriously impact the health of neonates.

Objective: To monitor the current state of neonatal death taking into account a time line in a previously monitored population, trying to detect preventive actions, to specifically protect the newborn; Positively impacting maternal health.

Method: Analysis of clinical records of 310 deaths of newborns was carried out according to the recommendations of Dr. Brown in Georgia, who assigned a percentage of responsibility basically in 4 areas, namely: 1.-Health of the woman to whom he gave a very high weight 60% responsibility. 2.- Maternal care with 10% responsibility. 3.- Neonatal Care, 9% responsibility, and 4.- Postnatal Care, 21%. The method includes color coding: #1 Brown; #2, Network; #3, Green; and #4 Lila, respectively for each area mentioned; which are expressed in a table to be able to contain data from each patient and thereby identify the area of responsibilities to convert it into an area of Opportunity.

Once the number of Neonatal deaths for the 2010-2015 period was analyzed, the results were compared with previous periods, previously analyzed, to measure whether there are new factors that require new approach strategies.

Results: In the period 203-206, basically three pathologies responsible for the death: 61% Prematurity, 25% sepsis, 61.7% asphyxia, and according to the color code entered the area of responsibility for obstetric care.

In the years 2007-2008: there was an increase in Prematurity to 66.6%; there was a decrease in sepsis to 14%. And decrease in babies under 1500gr. to 46.6%, after applying initial analysis strategies. (3)

In the 2010-2015 period, premature babies fell to 63%; Asphyxia decreased 38% and sepsis remained at 14%, Babies under 1500gr increased to 57.7%

Conclusions: We can see that the risk factors for neonatal death remained present, but we noticed a significant decrease compared to previous periods, according to the analysis of the Dr. Brown method, it translates into an area of opportunity for improvement with high weight for the area of obstetric care, we can comment that newborns within the Neonatal area of responsibility were registered once they were received very serious from birth and after neonatal intensive care, by age they entered that area of responsibility. Also to clarify that the asphyxia patients, in 98% of the cases were intrauterine. Permanent monitoring is urgently needed, and there is an insistence on applying a 4x4 team building strategy in the field of women's and pregnant women's health

Permanent monitoring is urgent, and there is an insistence on applying a 4x4 team formation strategy in the field of women's and pregnant women's health (Based Collaborating Centered in Reproductive Health The National Centers For Disease Control and Prevention Georgia Department of Human Resource).

Keywords: Death, neonatal, current analysis

Introduction

Concern about obstetric care dates back to pre-Columbian times in Mexico, where the midwife was already a respected character in society (1). Since then, obstetric complications continue to be considered as a setback that puts the life of the patient at risk.

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Product and of the pregnant woman, during childbirth or puerperium; or that generates serious sequelae, or death to the baby and/or the mother.

Currently in our country the social, economic, educational factors converge strongly in the health systems, causing the pregnant woman to appear in the care services have failures in some of the "Critical links of her care"

In a previous article (Analysis of neonatal mortality Aug 2015 M.N. Rangel Calvillo Rev.Perinatologia y Reproduccion Humana) the first analyzes were carried out in this regard and already suggesting the strategies that at some point when applied Iván will favorably influence the chain of links critical, identified, as opportunities for improvement during the care of the binomial that would reduce neonatal death in addition to neurological damage and its serious sequelae in newborns. These studies also mention the prevailing need to continuously evaluate the state of Neonatal mortality, as an index of high hospital weight that will help verify obstetric care in the country.

The foregoing with the sole intention of detecting opportunities for improvement in the obstetric care process and detecting strategies that help us avoid factors that have a serious impact on neonatal health.

The current objective of this analysis will be to verify the current state of neonatal death at the time of the cut and shed light to improve the care of the pair. Yes, we detect preventive actions to specifically protect the newborn and with repercussions on the mother or vice versa seen as a palindromic concept.

This is a retrospective study, carried out in the period from 2010 to 2015 in a population of pregnant women treated at the HGEJMR public hospital with a second level of care and which at the time was classified as a high specialty in Neonatology under the Catastrophic Expenses regime. Where open care is offered to the low-income population, located north of Mexico City in the most densely populated municipality in our country.

The already mentioned objective will be to detect factors that have an impact increasing the number of neonatal deaths. We hope to increase a database that helps make urgent decisions to avoid not only neonatal death but also serious neurological sequelae, as well as maternal death. Obviously with repercussions in the reduction of hospital expenses.

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This is a retrospective study, carried out from 2010 to 2015 in a population of pregnant women treated at the HGEJMR second-level public hospital, which at the time was classified as a high specialty in Neonatology under the Catastrophic Expenses regime. Where open care is offered to the low-income population, located north of Mexico City in the most densely populated municipality in our country.

The aforementioned objective will be to detect factors that have an impact by raising the number of neonatal deaths. We hope to increase a database that will help make emergency decisions to avoid not only neonatal death but also serious neurological sequelae, as well as maternal death. Evidently with an impact on the decrease in hospital spending.

Method: We will analyze clinical records according to the recommendations of Dr. Brown, applied at the time in Georgia, we remember that this analysis helped reduce maternal death in the USA by 80%, which seemed attractive to us to try, set our precedents means when trying to apply it, the system is ordered in areas, which can be seen as improvement opportunities for the areas, which detect responsibilities in their medical care processes, without forgetting the limitations, which implies, scarcity of resources.

These areas were called the area of responsibility and a percentage of responsibility was assigned to them, namely

1. Women's health 60%
2. Maternal Care 10%
3. Neonatal care 9%
4. Postnatal care 21%.

In turn, each of these opportunities became perinatal interventions, which in the method Dr Brown assigns with color code:

1. For women's health the color Brown
2. Maternal fetal care network
3. Newborn care the green
4. Postnatal care lilac color.

Interventions in the lilac child With this, neonatal, deaths were grouped and weight was assigned by, which interventions are assigned to reduce or eliminate the factors that contribute to death in neonatal case. (Colaborating Centered in Reproductive Health The National Centers For Disease Control and Prevention Georgia Department of Human Resource)

The result is a surveillance system for the management of perinatal care, integrated by a data collections system once the problem has been defined. Data analysis, which leads us to the solution of the problem or response when applying the solution, the results are monitored, until a specific solution is obtained for each area of opportunity.

We also rely on the official Mexican standard. To monitor the health of women and babies.

Color code table was applied where we can observe, color code where late fetal death is first classified by age in those: Older 28weeks.

Early neonatal death in those younger so 7 days Late neonatal death from 7 to 27 days and Postnatal death in the olders 28 days and more Brown's color were assigned by weight the group from 0 to 999gr. Second group from 999 to 1499gr. And weight very low birth.

- The low birth weight from 1.499gr to 2400gr.
- The first color is Brown, second reed, third green and fourth laila
- Including the appropriate weight up to 2500g
- Two previously analyzed periods will be taken into account to make a comparison with

Results

Once we apply the analysis table proposed by Dr. Brown, we find in the year 203-206 61% premature, 25% sepsis, 61.7% asphyxia as the main causes of neonatal death.

It draws our attention that when applying the color code again we find variations in the prevalence of causes of death In 2007-2008 there was an increase in premature to 66.6%, a

decrease in sepsis to 14%, and a decrease in babies under 1500gr to 46.6%. In the period 2010-2015: premature infants decreased to 63%, asphyxia decreased to 38%, and

sepsis decreased to 14%, those <1500gr increased to 57.77%.

Table 1: Neonatal mortality analysis of the HGEJMR period 2010-2015

	Late Fetal deaths (28+ Weeks)	Early Neonatal deaths (<27days)	Late Neonatal deaths (7-27 days)	Post-neonatal deaths (28+ days)
Weight 0-999gr	28	25	7	
Very low Weight 999-1499gr	60	38	16	
Low birth weight 1449-2499gr	54	33	21	
Suitable weight 2500>gr	46	32	16	

(Box based of. Collaborating Centered in Reproductive Health The National Centers For Disease Control and Prevention Georgia Department of Human Resource)

In the following tables we present other biological factors that were monitored, and continue to be observed,

Age of Product	# of cases
21-24 weeks	17
25-28	47
29-32	101
33-35	66
37-40	59

APGAR	# of patients
0-3	83
4-6	84
5-9	139

Product age in weeks	
21-24	18
25-28	48
29-32	101
33-35	75
37-40	64

Personnel who attended delivery	89
Medical Intern	103
M Resident	81
Random	10
Random	23
M Private	1
Another	3
Intern	

# of consultations	#of cases
1-2	71
3-5	103
+ 5	88
none	38

Risk according to method of obtaining	
Vagina	151
Abdominal	136
Forceps	16

Education of the mothers	
Illiterate	21
Primary	89
Secondary	127
High School	57
Professional	12

Maternal age in years	# of cases
16	53
17-20	89
20-30	100
30-38	47
40	19

Product Age	# of Patients
<of 60 minutes	25
2-48hrs	52
24-48hrs	18
48-72	29
72-160	37
+ 6 days	123

Marital status	# of patients
Single	98
Married	69
Free Union	135
Widow	1
Separate	3

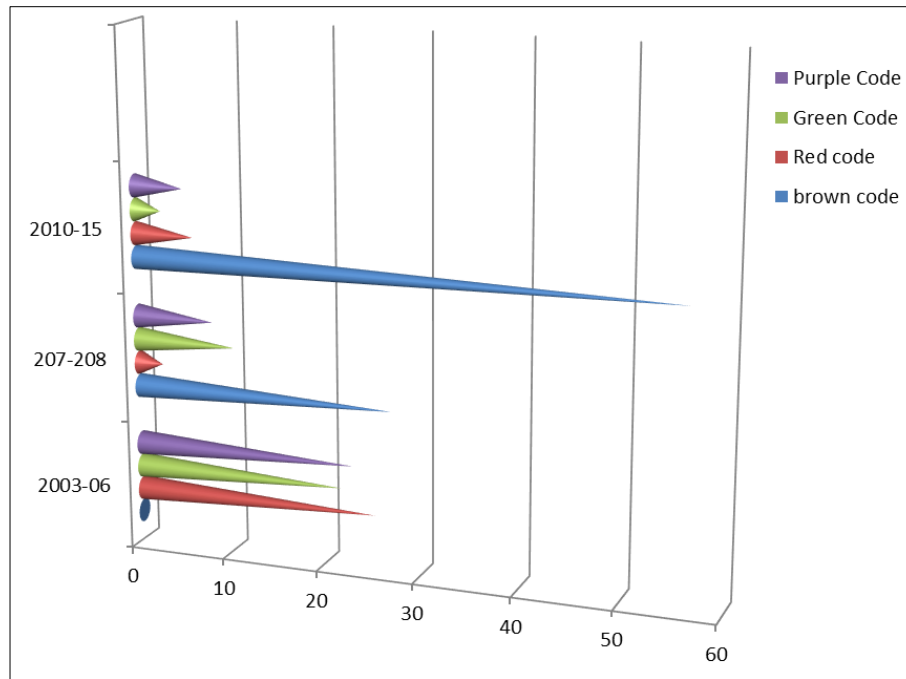
Table 2: Relationship of changes in frequent pathologies as a cause of death expressed as a percentage.

	Premature	Sepsis	Asphyxia	<1500gr
2003-2006	5.6%	2.5%	7.6%	14%
2007-2008	5.6%	14%	30.7%	4%
2010-2015	3.6	14%	13.72%	11.7%

According to the table recommended by Dr. Brown, differences were found according to the color code in each analyzed period. We show patients by year (Table 3).

Table 3: Show patients by year

# of patients per year	Brown code	Red code	Green code	Purple code
2003-2006	41.75	25	21.5	2.75
2007-2008	26.82	2.5	10.3	8
2010-2015	28.5			



Graph 1: Graph of deaths according to color code per year

From the reviewed files, 308 deaths were found in the 2010-2015 period. Of this total there were: 244 premature deaths with an annual rate of 40.66 and a monthly rate of 3.38. A total of 64 deaths in term newborns, with an annual number of 10.66 monthly of 0.88 deaths, the annual general death of neonates was 51 and a monthly of 4,277 cases.

In the previous periods we found an annual average of 4,161 births and an average number of annual deaths of 68, up to the year 2006-During the period analyzed, the annual average of births was 3,854 with a death rate of 13.43. The number of annual deaths was 51.

In the previous periods we found an annual average of births of 4161 and number of annual deaths of 68 on average, until the year 2006

We also found that these results were associated with the number of births per year. Be shows number of births in the following table. And we include in the table, impact on the number of cesarean sections, which was associated with the application of the analysis methodology. (Table 4)

Table 4: Shows number of births in the following table

Year	2017	2018	2019	2020	Annual average
# of births	32995	3159	2734	2190	2844
# of Caesarean	1117	1330	1267	788	1125.5

We show an example of the number of births per year, as well as NICU admissions, deaths, and death rate. (Box 5)

	Year 2003	Year 2004	Year 2005	Year 2006
Births	4611	3905	3631	4500
# of income	112	904	1260	1655
# of Deaths	50	56	96	70
Death rate	10.84	11	14.3	12.2

We found that a great variety of associated factors continue to converge and that they are considered highly influential in negatively influencing the presence of neonatal death (factors already explained and analyzed in previous studies, refer to the Journal of Perinatology and Human Reproduction year 2015 by Dr Rangel) among them:

Vulvovaginitis, Premature rupture of membranes, General anesthesia, Transfer of premature infants and newborns, Severe respiratory distress, Obstetric trauma, Maternal urinary tract infection, Persistent low APGAR, Prevalence in males, The age of the mother even with the presence of minors in 23 %, The degree of studies to background in 83%. Delivery care by medical personnel remains in a 14 for inmates; residents 59%.

Frame with high abdominal delivery. By last hour of death in first 72 hours of intensive care in 82%. Single mothers 21%, Free union 32%. The number of consultation 35.5%. Only 2 consultations 22.5%. To 3-5 21%.

Analysis of results

According to the Georgia Method proposed by Dr. Brown, the current analysis shows that more than 88% of Neonatal death cases are located in the area of health of women and pregnant women, which have a very high weight of responsibility for obstetric care, and that must be definitively converted to opportunities for improvement, in the care of the risk group.

The asphyxia found 98% were intrauterine, so they fall under obstetric responsibility, and the number of premature babies, obviously also due to the need to improve the care of women and pregnant women, the same occurs with newborns under 1500gr, in Regarding the septic process, we were struck by the fact that 86% of the newborns also had a history of a maternal infectious process during pregnancy, as can be seen in the number of women, without obstetric care as a rule, and with a history of premature ruptures of membranes, and/or vulvovaginitis, among other factors expressed, and in this study

Discussion

We wish to clarify that along with the previous neonatal mortality analysis, an attempt was made to maintain a hospital structure for quality care backed by quality care standards which were severely monitored under the quality management system by the state under the Catastrophic Expenditure system. where the last recertification

successfully acquired by the neonatology service was at the end of 2019, obviously it had to be verified that the technical structure of the service was strongly supported, by manuals, service, guides, management, strategies, management, and a whole baggage of technical support, in addition to constantly monitoring the effectiveness in neonatal CPR, and energetic resource management, which in the long run due to non-medical situations were reduced to only 3.3% of supply at the end of 2015, even so it was possible to obtain mention within the first 10 best hospitals in decrease in neonatal death, c However you want, we continued to strengthen essential aspects such as staff training, Human Milk Bank accreditations as a strategy to protect Humanized childbirth, with which we turned the state's attention to delivery care in a convincing manner, promoting greater care in the care of childbirth for example As we can see, mortality in the period 2010-2015 was reduced by: 40.5%

1. Prevention
2. Diagnosis
3. Reference
4. Adequate medical management

What is striking is that the population served continues to present practically the same risk factors found in previous analyses, with a large number of these factors that probabilistically should increase death

1. Identification and management
2. Preconception risk
3. Obstetric Risk
4. Prenatal risk
5. Identification of preconception risk.
6. Poor obstetric history
7. A favorable obstetric history
8. Family history
9. Extreme ages of women
10. Nutritional condition
11. Exposure to teratogens
12. Addictions
13. Chronic diseases

Other important aspects of prenatal care to ensure the health of the baby are (14)

The first considers level of schooling, socioeconomic status, race parity, marital status, desire to be pregnant, stress, pregnancy problems, the Social Support network, lack of knowledge about the state of pregnancy, during 1st and 4th ° month, birth interval, motivation to seek care, state of depression, availability of transportation, availability of people who care for their children, language and some cultural factors.

Characteristics of health services include

Accessibility, availability, quality of care provided, attitude of staff receiving patients in medical establishments, satisfaction of health staff working in institutions, as well as "Financing Scheme"

When prenatal care is ensured with these considered, the survival of the newborn will also depend on:

1. Weight.
2. Age at birth.
3. Conditions of Birth (15,16)

As we can corroborate in this study a baby less than 2500 gr. he suffers from a weight deficiency, and according to the WHO this fact alone constitutes a risk to his health. Premature or very low birth weight infants of course they constitute a major public health problem, both in developed countries and in the third world, as they present higher rates of morbidity and mortality, in addition to a great risk of later developing physical, neurological and mental deficiencies (12, 18).

The analyzes presented here show a clear prevalence of the same risk factors, which are likely to continue as long as no changes are made in the care structure, in the quality of obstetric care and in the health services provided to the population.

It is urgent to monitor the application of the following factors that tend to limit the high risk for newborns:

- a. Pregnancy, childbirth and puerperium must be attended by trained and authorized personnel.
- b. Assess each case individually in the prenatal period, identifying the High risk
- c. Strengthen prenatal care in the third trimester
- d. Establish adequate birth plan in advance
- e. Reduce unnecessary risks
- f. Adequate surveillance of labor and puerperium
- g. Document care process

Analyzed period 2010-2015 we found similar conditions than previous analyzes so we urgently suggest to reduce Neonatal death based on 4x4 table strategies proposed by analysis of Georgia Dr. Brown. And that are marked as reproductive health interventions in Mexico. Shoume in this box

Conflict of Interest

Not available

Financial Support

Not available

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