# PUPPY NEONATAL GROWTH CURVES A PRACTICAL TOOL FOR BREEDERS 



E D | T I O N S

These Puppy Neonatal Growth Curves are not intended to be a diagnostic tool or to predict the growth of any particular pet. Instead, this is a monitoring tool intended to assess the growth pattern of a given pet in comparison to the standard at the same size \& age category.
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## HOW THESE GROWTH CURVES HAVE BEEN BUILT?

The neonatal growth charts presented in this booklet are the result of several years of research collaboration work with high-level teams, expert in neonatalogy (NeoCare, ENVT, Toulouse, France) and data science (Seenovate, Lyon, France).

The huge work of data collection on the field has been driven by the NeoCare team and can be summarized in a few numbers:

- More than 430,000 body weights measurements
- over the period between birth and 62 days of age
- from more than 19,000 puppies
- representing 119 breeds
- born in $\mathbf{4 0 0}$ French breeding facilities
- representing a unique retrospective longitudinal follow-up

Then, the data were organized and processed by statisticians to draw the variability of the evolution of body weight from birth up to 2 months of age. Only data coming from puppies alive and assumed in good health during this period were used.

According to the number and repartition of data available for each breed, the growth charts have been built by using breed data only or by grouping data from breeds with similar growth features when relevant.

This booklet presents the most appropriate growth template for any puppy's breed at the publication date of this document. In the future, the collection of more body weights measurements could allow us to improve these growth charts and make them more and more accurate.

These growth charts are suitable for both male and female puppies. Indeed, our analysis have shown that the body weight evolution is similar between both sex during the neonatal period.
: If you're looking for more details, please read the science behind these growth charts:
Kocevar G, Rioland M, Laxalde J, Mugnier A, Adib-Lesaux A, Gaillard V, Bodin J. Growth charts for small sample sizes using unsupervised clustering: Application to canine early growth. Vet Res Commun.2023. Jun;47(2):693-706.doi: 10.1007/ s11259-022-10029-2.

## HOW TO USE THESE NEONATAL GROWTH CURVES?

This booklet presents the most accurate neonatal growth charts, available at the date of publication of this booklet, from birth up to 2 months of age for more than 115 puppy breeds.

A growth chart allows you to track how a puppies' weight evolves from birth until 2 months old. For practicality reasons, the growth chart is displayed into 2 graphs, firstly from birth up to 20 days of age, then from 21 to 62 days of age.

All the growth charts can be used for both male and female puppy as their growth pattern during the neonatal period is quite similar.

On a graph, you can see 5 reference lines which correspond to the $9,25,50,75$ and 91 centiles from bottom to top respectively. The bottom reference line is the 9 th centile curve. It indicates that $9 \%$ of puppies lof a given population) have a weight below this curve. The upper reference line is the 91th centile curve. It indicates that $91 \%$ of puppies (of a given population) have a weight below this curve.

One puppy's weight can be anywhere on the graph, and even sometimes outside the weight curves represented. Nevertheless, it should smoothly increase across time. To have the best visualization of your puppy 's weight evolution we advise you to monitor it on a regular basis. Weight loss or the absence of weight gain for 2 consecutive days should alert you and encourage you to seek advice from your veterinarian.

## Here are few tips using the neonatal growth charts:

1. Select the corresponding growth charts for your puppy breed. If the breed is not available, please use the generic size for this breed, based on the dog weight at adulthood (pages $x x$ to $x x$ ).
2. Print one page for each puppy of the litter and fill in the identity information.
3. Weigh the puppy and plot the body weight on the growth charts:
4. It is important to use a scale that is accurate to at least 5 g , especially for small breed puppies. We recommend that you weigh the puppies at regular intervals at the same time each day.
5. We advise to weigh the puppy at birth then each day at least up to day 20 (graph on top). Then, continue to weight the puppy every other day as much as possible up to the end of the follow-up period (graph on the bottom).

PUPPY EARLY GROWTH CHART
AIREDALE TERRIER

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days




## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name

Date of birth :
Father's name


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days

PUPPY EARLY GROWTH CHART
BEAGLE

Puppy's name:
Mother's name

Date of birth :
Father's name


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Age in days

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name :


## 21-62 days



Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days

 Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name

Date of birth :
Father's name


21-62 days


Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



PUPPY EARLY GROWTH CHART
BOXER

Puppy's name:
Mother's name

Date of birth :
Father's name


21-62 days


Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


## 21-62 days



Puppy's name:
Mother's name:

## Date of birth :

Father's name


Age in days

## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


PUPPY EARLY GROWTH CHART
CHOW CHOW

Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Age in days

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Age in days

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name :


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Age in days

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name

Date of birth :
Father's name


21-62 days


Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

## Date of birth :

Father's name


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Puppy's name:
Mother's name

Date of birth :
Father's name


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Age in days

PUPPY EARLY GROWTH CHART
GREYHOUND

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name :


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Age in days

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Age in days

PUPPY EARLY GROWTH CHART
LAKELAND TERRIER

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

## Date of birth :

Father's name


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name :


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



PUPPY EARLY GROWTH CHART
LITTLE LION DOG / LOWCHEN

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

## Date of birth :

Father's name


## 21-62 days



Puppy's name
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name :


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

INCREDIBLE IN EVERY DETAIL

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Age in days

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


PUPPY EARLY GROWTH CHART
SCHIPPERKE

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



PUPPY EARLY GROWTH CHART SCOTTISH TERRIER

Puppy's name:
Mother's name

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days
 Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name :


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

PUPPY EARLY GROWTH CHART
ST BERNARD

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

## Date of birth :

Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy＇s name：
Mother＇s name：

Date of birth ：
Father＇s name ：


## 21－62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

Date of birth :
Father's name :


21-62 days


Age in days

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



Puppy's name:
Mother's name:

## Date of birth :

Father's name


21-62 days


Age in days
unit between 2 lines $=0,20 \mathrm{~kg}$ or 200 g

Puppy's name:
Mother's name:

Date of birth :
Father's name


21-62 days


Age in days
unit between 2 lines $=0,25 \mathrm{~kg}$ or 250 g

Puppy's name:
Mother's name:

Date of birth :
Father's name


## 21-62 days



## AND AFTER 2 MONTHS OF AGE?

At 2 months of age, the puppy will probably leave the breeding facility to join a new family where the growing phase will continue until the puppy reaches adult weight. During this period, the close follow-up of body weight evolution must stay at the core of his health check.

In this perspective, you can give to the new pet owner the filled neonatal growth chart of the puppy, explaining your role following his weight gain thanks to this tool. Then you can encourage the pet owner to continue the body weight follow-up of his puppy, providing him with the printed appropriate pediatric growth charts from 3 months of age up to adulthood (pages 126 to 145). You can advise the pet owners to share the growth charts with their veterinarian to follow the growth of their puppy together.

## Correspondence:

Either the adult weight is known and thus the adapted pediatric growth charts can be selected or you may use this corresponding table to help you at the beginning. Do not forget that you can change of the higher or lower weight category growth charts at anytime to make sure to have the most appropriate follow-up of the growing pattern of the puppy. In case of doubt and for any question related to the growth, contact with the veterinarian.
: X-Small : Toy
: Small: Small
: Medium : Medium small or Medium large
: Large : Medium large or Large
No pediatric growth charts for giant breed dogs (adult weight more than 40 kg )
Possible to use the online version: https://www.waltham.com/resources/puppy-growth-charts

## : If you're looking for more details, please read the science behind these growth charts:

Salt C, Morris PJ, German AJ, Wilson D, Lund EM, Cole TJ, Butterwick RF. Growth standard charts for monitoring bodyweight in dogs of different sizes. PLoS One. 2017 Sep 5;12(9):e0182064. doi: 10.1371/journal. pone. 0182064 .

Salt C, Morris PJ, Butterwick RF, Lund EM, Cole TJ, German AJ. Comparison of growth patterns in healthy dogs and dogs in abnormal body condition using growth standards. PLoS One. 2020 Sep 23;15(9):e0238521. doi: 10.1371/journal.pone. 0238521

These Growth Curves are not intended to be a diagnostic tool or predict the growth of any particular pet. Instead, this is a monitoring tool intended to assess the growth pattern of a given pet in comparison to the standard at the same size \& age category.

\section*{Dog's Name:



## Neuter/Spay date:

## Neuter/Spay date:




## © PUPPY GROWTH CHART


A series of measurements allows assessment of the puppy's growth. Please note that there is no ideal centile line, and growth can be considered normal provided that it tracks along the same centile line (or 'channels' in between two centile lines) over time. -The 50th centile is not the goal for each puppy.

- Likewise, the 99.6th centile is not the goal for each puppy.
Increases or decreases in growth beyond two centiles or a flat growth line (prior to reaching adult weight) are all signs of potential growth disturbances.
- A growth rate that is too rapid resulting in a change in direction upwards across multiple centiles could indicate
a risk of the puppy becoming overweight or obese.
Slow growth resulting in a change in direction downwards across Slow growth resulting in a change in direction downwards across
multiple centiles could be a sign of failure-to-thrive. if the puppy looks healthy and in ideal condition despite centiles being crossed Try replotting the weights on the next chart, and reassess the growth pattern.

[^0]Vet contact details:
Roxilicinnn
INCREDIBLE IN EVERY DETAIL
st
 G.j.WALTHAM


\section*{Dog's Name:



## Neuter/Spay date:

## Neuter/Spay date:



|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |



## © PUPPY GROWTH CHART


A series of measurements allows assessment of the puppy's growth. Please note that there is no ideal centile line, and growth can be considered normal provided that it tracks along the same centile line (or 'channels' in between two centile lines) over time. -The 50th centile is not the goal for each puppy.

- Likewise, the 99.6th centile is not the goal for each puppy.
Increases or decreases in growth beyond two centiles or a flat growth line (prior to reaching adult weight) are all signs of potential growth disturbances.
- A growth rate that is too rapid resulting in a change in direction upwards across multiple centiles could indicate
a risk of the puppy becoming overweight or obese.
Slow growth resulting in a change in direction downwards across Slow growth resulting in a change in direction downwards across
multiple centiles could be a sign of failure-to-thrive. if the puppy looks healthy and in ideal condition despite centiles being crossed Try replotting the weights on the next chart, and reassess the growth pattern.
Vet contact details:




\section*{Dog's Name:



## Neuter/Spay date:

## Neuter/Spay date:


(


## © PUPPY GROWTH CHART $\bullet 9-15 \mathrm{~kg}$ <br> 

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in the same directions, it is possible the wrong chart was originally chosen.
Try replotting the weights on the next chart, and reassess the growth pattern.
Vet contact details:
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G.jайтнам
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(9) PUPPY GROWTH CHART


\section*{Dog's Name:



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## © PUPPY GROWTH CHART

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[^1]Vet contact details:
Roxilicinnn
Gj. Waltham


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[^2]Vet contact details:
©̣ PUPPY GROWTH CHART

$\left(\begin{array}{c}\text { FEMALE • Predicted adult body weight } \\ \text { • } 30-40 \mathrm{~kg}\end{array}\right.$


| * PUPPY GROWTH CHART | Dog's Name: |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 2 MALE • Predicted adult body weight | Date of birth: |  |  |  |
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|  | Date | Age (weeks) | Weight (kg) | Recorded by |
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| If the puppy looks healthy and in ideal condition despite centiles being crossed <br> in the same directions, it is possible the wrong chart was originally chosen. <br> Try replotting the weights on the next chart, and reassess the growth pattem. |  |  |  |  |
| Vet contact details: |  |  |  |  |
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(6) PUPPY GROWTH CHART
$(2)$ MALE • Predicted adult body weight

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(6) PUPPY GROWTH CHART

| $\binom{\cos }{\cos }$ | MALE • Predicted adult body weight - 6.5-9kg |
| :---: | :---: |

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(') PUPPY GROWTH CHART

|  | ${ }_{9} 9$-15kg ${ }^{\text {a }}$ |  |
| :---: | :---: | :---: |
|  |  |  |



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(') PUPPY GROWTH CHART

30-40kg
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E D I T I O N S


[^0]:    Vet contact details:

[^1]:    Vet contact details:

[^2]:    Vet contact details:

