

EVOLUTION
EXCLUSIVITY!

4 INNOVATIONS SUPPORTING GENETIC EFFICIENCY

#1

HOOF HEALTH

GÉNO  SANTÉ

STOP TO LAMENESS!

SECOND PATHOLOGY
IN DAIRY HERDS

INCIDENCE FOR 100 COWS:
6000€/YEAR



NEW

NOW AVAILABLE FOR THE NORMANDE !



RLI

RESISTANCE TO
INFECTIOUS LESIONS



2 SCIENTIFIC
INDICATORS TO MANAGE
HOOF HEALTH



RLNI

RESISTANCE TO
NON-INFECTIOUS LESIONS

WE GIVE YOU TOOLS TO MOVE
FORWARD RIGHT NOW :

< Our bulls are evaluated

Genimprove

Your females are evaluated
by EVOLUTION genotyping

>



Developed by GENOSANTE collective and its partners

PRODUCT SHEET: UNDERSTAND AND USE THIS INNOVATION IN YOUR HERD


EVOLUTION
International



HOOF HEALTH ISSUES IN NORMANDE BREED

Lameness is the second pathology of dairy cows after clinical mastitis. 11% of cows have clinical lameness and 2 to 3 times more subclinical lameness.

Direct Consequences:

- > Limits movements (fewer robot passages), falling risks
- > Ingestion, rumination and therefore production decrease (-300 to 500kg of milk) and effects on feed disorder (ketosis, acidosis)
- > Degraded cyclicity and heat expression with 35% more failures at AI
- > Weight and body condition losses (Huxley, 2013)
- > Culling are 8.4 times higher in cows with clinical lameness (Sprecher et al., 1997)
- > Animal welfare (stress and immunity decrease – metritis, mastitis...)

Economic impact: 265 € per cow with clinical lameness and 130€ per cow with subclinical lameness. I.e 5,830€ per year for an average herd of 100 dairy cows



WHAT IS THE NORMAND HOOF HEALTH?

Genosanté hoof health indicator Genosanté is the most robust information for the Normande breed.

- > **The largest reference population:** 38 299 females taken into account, of which 18 152 trimmed since 2014, 5496 genotyped and trimmed females and 406 bulls with results on progeny
- > **The same scientific methodology as all official proofs:** : INRA, Idele, Allice
 - A continuous enrichment of new cows trimmed in the reference population
 - Bulls and females with genomic indicators : expression of trends by range: [-1.0 ; -0.5 ; 0 ; +0.5 ; +1.0]
 - Proven bulls with trimmed daughters : The proof is more accurate with higher reliability
- > **2 indicators for a more reliable selection effect**
 - RLI : (Resistance to Infectious Lesions) : Dermatitis and Interdigital Hyperplasia synthesis
 - RLNI : (Resistance to Non-Infectious Lesions) : White Line, Sole Ulcer and Sole Hemorrhage Circumscribed synthesis

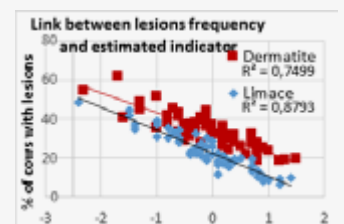
Examples of the genetic proofs effect on bulls with more than 50 daughters:

RLI : Interdigital Hyperplasia :

- +1 bull : 60% fewer daughters with Interdigital Hyperplasia than the average (10% vs 24%)
- -1 bull : 60% more daughters with Interdigital Hyperplasia (38% vs 24%)

RLI : Dermatitis :

- +1 bull : 25% fewer daughters with dermatitis (25% vs 35%)
- -1 bull : 25% more daughters with dermatitis (45% vs 35%)



WHICH BENEFITS FOR THE BREEDERS ? 1ST GENERATION : 600€ GAIN/ 100 DAIRY COWS /YEAR

- 1- For females: get 2 indicators to limit the incidence of lameness
- 2- For bulls : identify the most favourable (especially among the proven ones/more precise)

Example for a 100 dairy cows herd of which 30 females have lesions, including 10 clinical and 20 sub-clinical lameness:

- > Targeted mating for sensitive females (-1) with improving bulls (+1)
- > 7% reduction in the lesions expression, ie an economic gain of 600€/ year