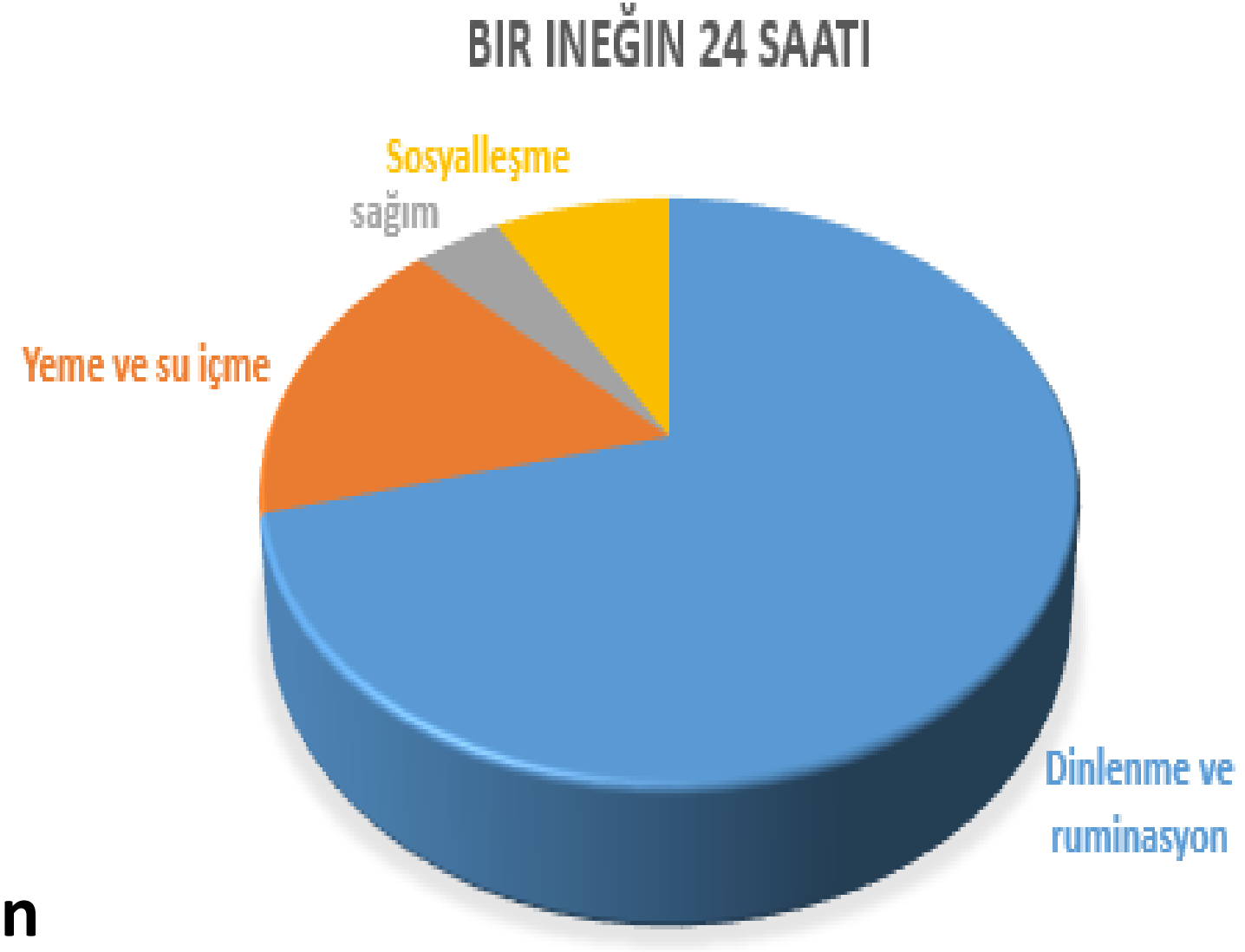
REPRODUCTIVE HERD HEALTH

Doç. Dr. Halit Kanca

Prepartum and Postpartum Follow-up

- General health parameters
- Energy and mineral status
- Urine pH
- Metabolites of defense mechanisms
- Routine breast control
- Milk yield
- Stool monitoring
- Colostrum review
- Water and KM consumption rates



(cockroft, 2015 ;Anonim, 2017)

Prepartum and Postpartum Follow-up

To determine energy status during the transition period

Parameter monitoring in urine, milk and blood

NEFA	> 0.3 mmol/L ve pospartum 0.6 mmol/L
BHBA	> 1.2 mmol/L
Ketone	> 10mg/dl
Ca	< 8 mg/dl
Glucose	< 50 mg/dl
BUN	> 20 (**5-19.5**) mg/dl

⬆

P.P Disorders

(Duffield, 2011; Esposito ve ark, 2014)

Prepartum and Postpartum Follow-up

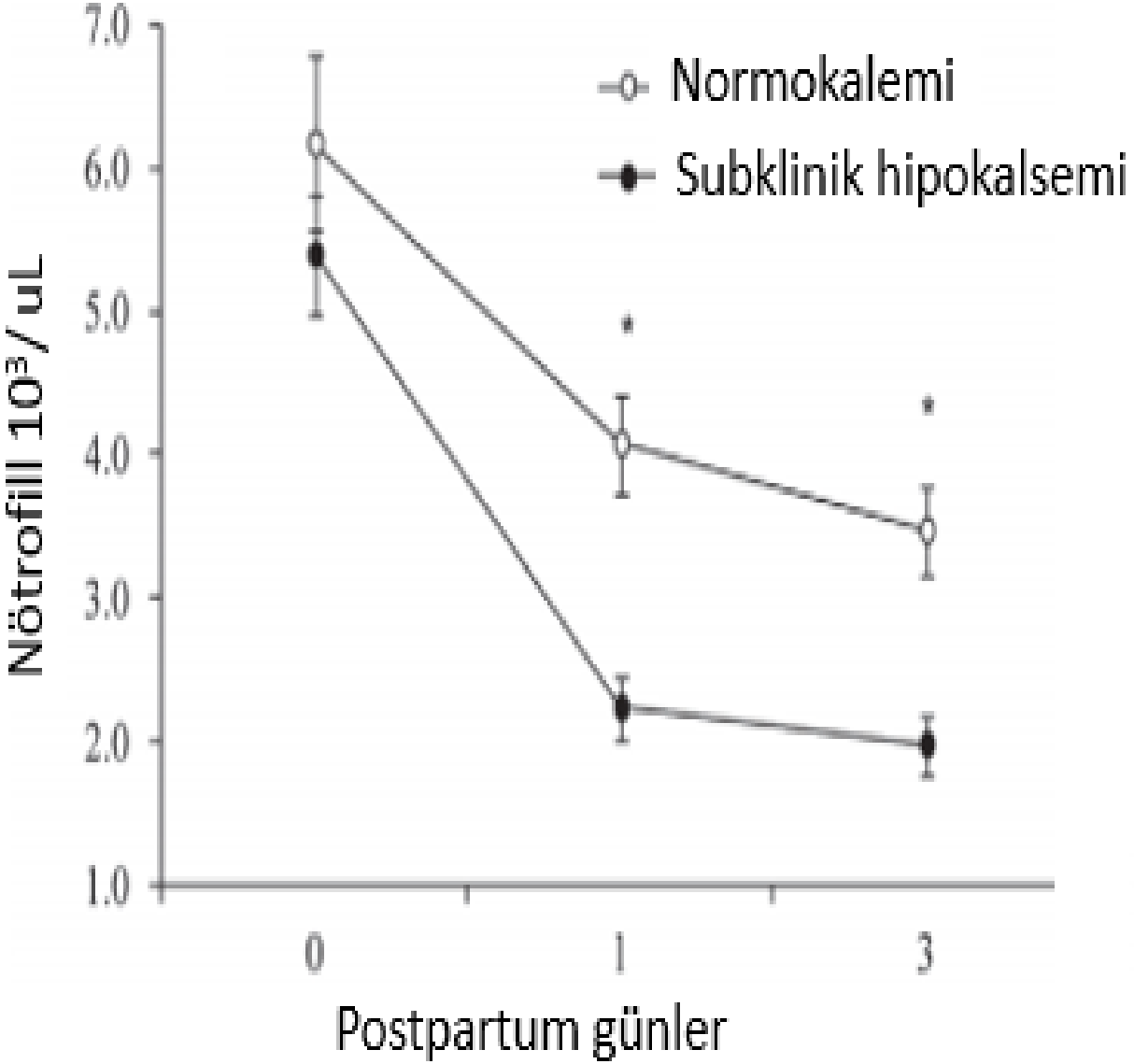
- **PREPARTUM NEFA**
- **POSTPARTUM BHBA**

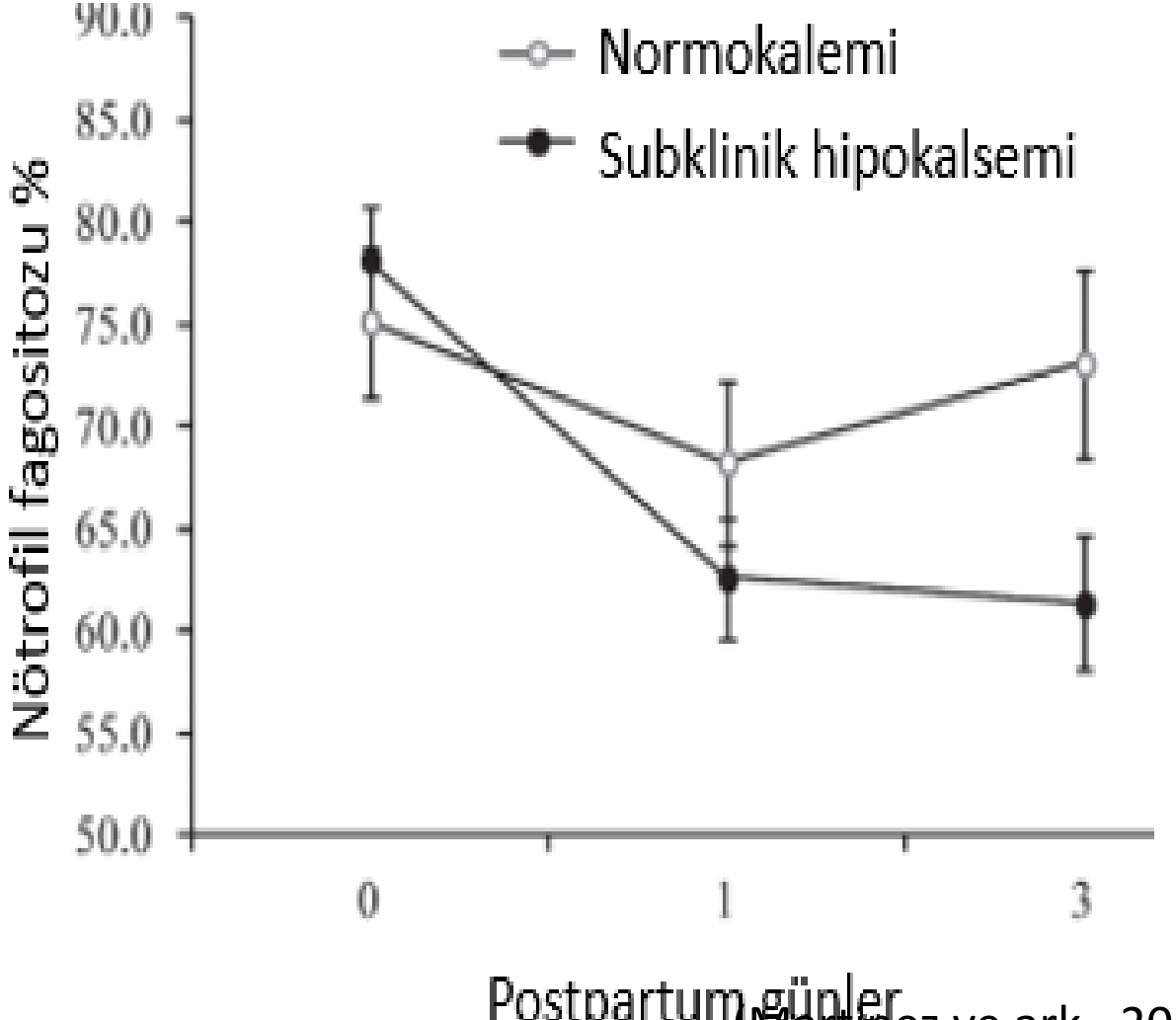
- **Plesantal R. :1,8**
- **Abomasal D. :4 – 8**
- **P.P. culling: 2**
- **Culling from herd during lactation : 1,5**
- **Duration and severity of production diseases**
- **Conception rate**

(Leblanc, 2006; Esposito ve ark, 2014)

Prepartum and Postpartum Follow-up

Ca status





(Martinez ve ark., 2012)

Prepartum and Postpartum Follow-up

Urine pH

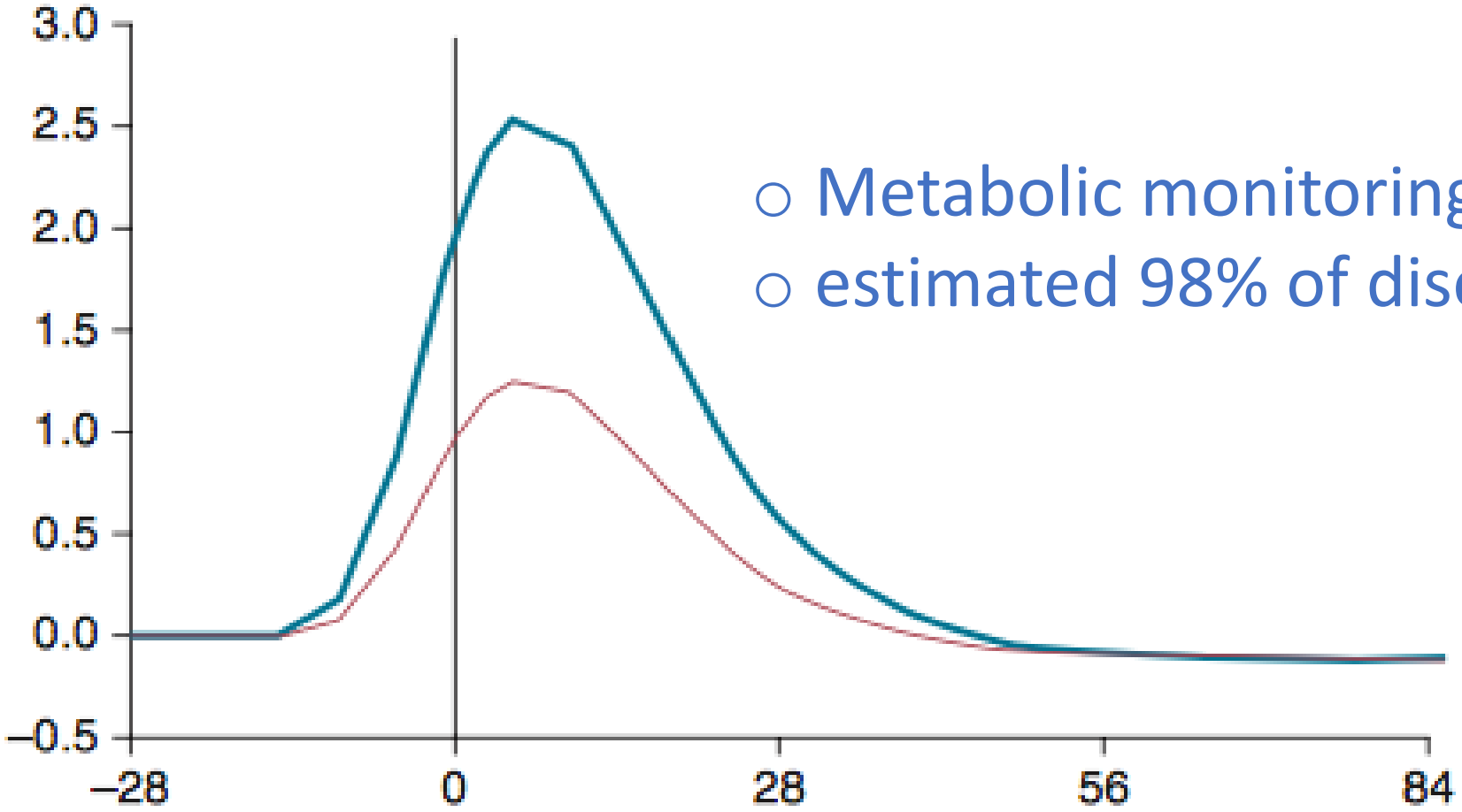
- Evaluation of anionic feeding
- Post partum disease prediction
- **Prepartum ideal pH: 5,5 – 6,5**

Ration DCAD	Pre-fresh cow Urine pH	Pre-fresh cow Acid-base status	Fresh cow Ca status
Pozitif (>0 mEq/100g)	7 – 8	Alkalosis	Low blood Ca concentration
(<0 mEq/100g)	5,5 – 6,5	Moderate metabolic acidosis	Normal blood Ca con.
	< 5,5	Kidney problems, crisis	

(Heinrichs ve ark., 1996; Seifi ve ark., 2004; Sweenwy ve ark., 2015)

Prepartum and Postpartum Follow-up

Milk Production Curve



- Metabolic monitoring of milk production
- estimated 98% of diseases

(Peter ve ark., 2017)

Prepartum and Postpartum Follow-up

Consumption of Water and Dry Matter

Fluctuations in water and KM consumption metabolic or infectious problems

1 kg dry matter digestion: 4kg water

10 Lt drop in water T.: P.p disease probability ↑

KMT decline per unit: Probability of P.p disea ↑

Hierarchy and distance

(Leblanc, 2010, Anonim 2017)

Consumption of Water and Dry Matter

(Anonim 2017)