INTRODUCTION

BEHAVIORAL AND PHYSIOLOGICAL INDICATORS TO EVALUATE THE WELFARE OF BOTTLENOSE DOLPHINS IN CAPTIVITY

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60 countries \rightarrow 2.000 cetaceans in captivity, species Delphinidae. UE → Spain: 98 dolphins, 2 beluga whales and 6 killer whales.

Are the dolphins in captivity having a good quality of live? Which indicators do we use to evaluate it?

DISCUSSION

CONCLUSION

Study which are the existing behavioural and physiological indicators to evaluate their wellness.

WELFARE EVALUATION

PHYSIOLOGICAL INDICATORS

Stress → HPA axis → hypothalamus (CRH) → pituitary gland→ ACTH in plasma→ adrenal gland→ CORTISOL + catecholamines

+ Cortisol → - Stress

Analyzed by blood plasma, saliva, urine and stool

Inability to develop natural behaviours

Abnormal and pathological behaviour

> Stress symptoms camouflaged

Normal behaviour vs abnormal ones

PERFORMANCE INDICATORS

Food consumption

- Loss of appetite
- Vomiting
- Foreign body ingestion

Selfinjurious behaviour

- •Friction
- •Teeth wear

Stereotypes

Is captivity better than freedom? NO for the whole specie.

