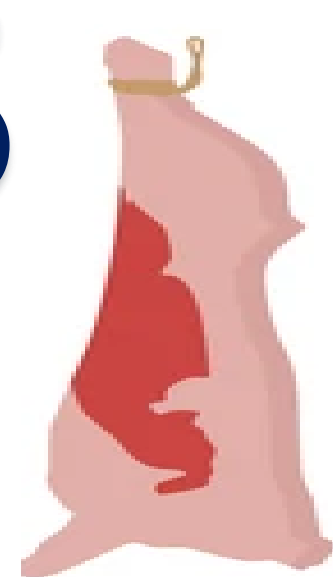




ASSOCIATIONS BETWEEN FOOT LESIONS AND CARCASS TRAITS IN YOUNG BULLS



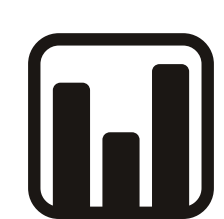
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INTRODUCTION



Lameness = ↓ Welfare & Economic losses



Previous study: Almost all French young bulls had at least one foot lesion



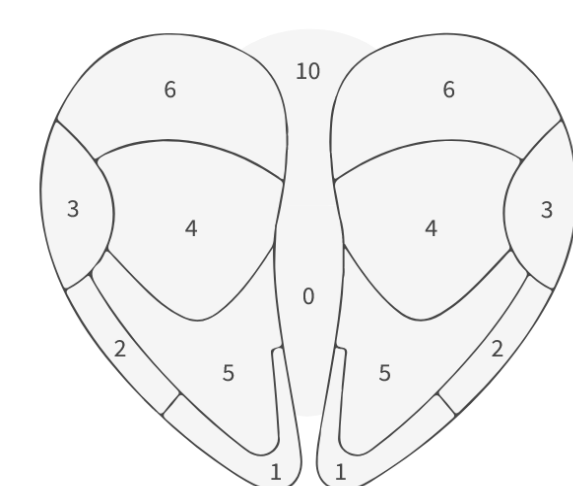
Associations with carcass traits ?

MATERIALS & METHODS

➤ Cross sectional slaughterhouse study

➤ **2087 bulls**; 4 feet trimmed

➤ Lesions annotated



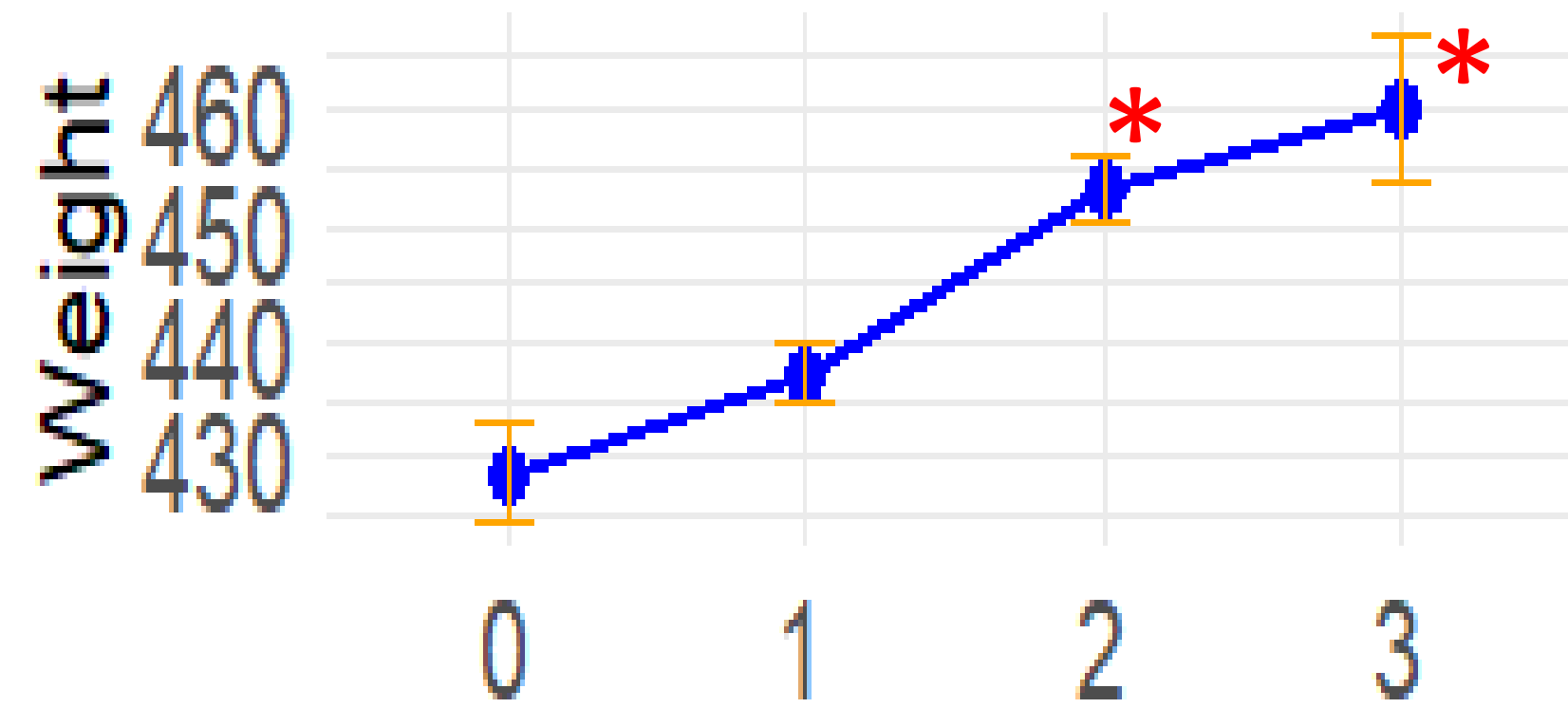
Data collected: carcass weight, conformation, fat score & age at slaughter



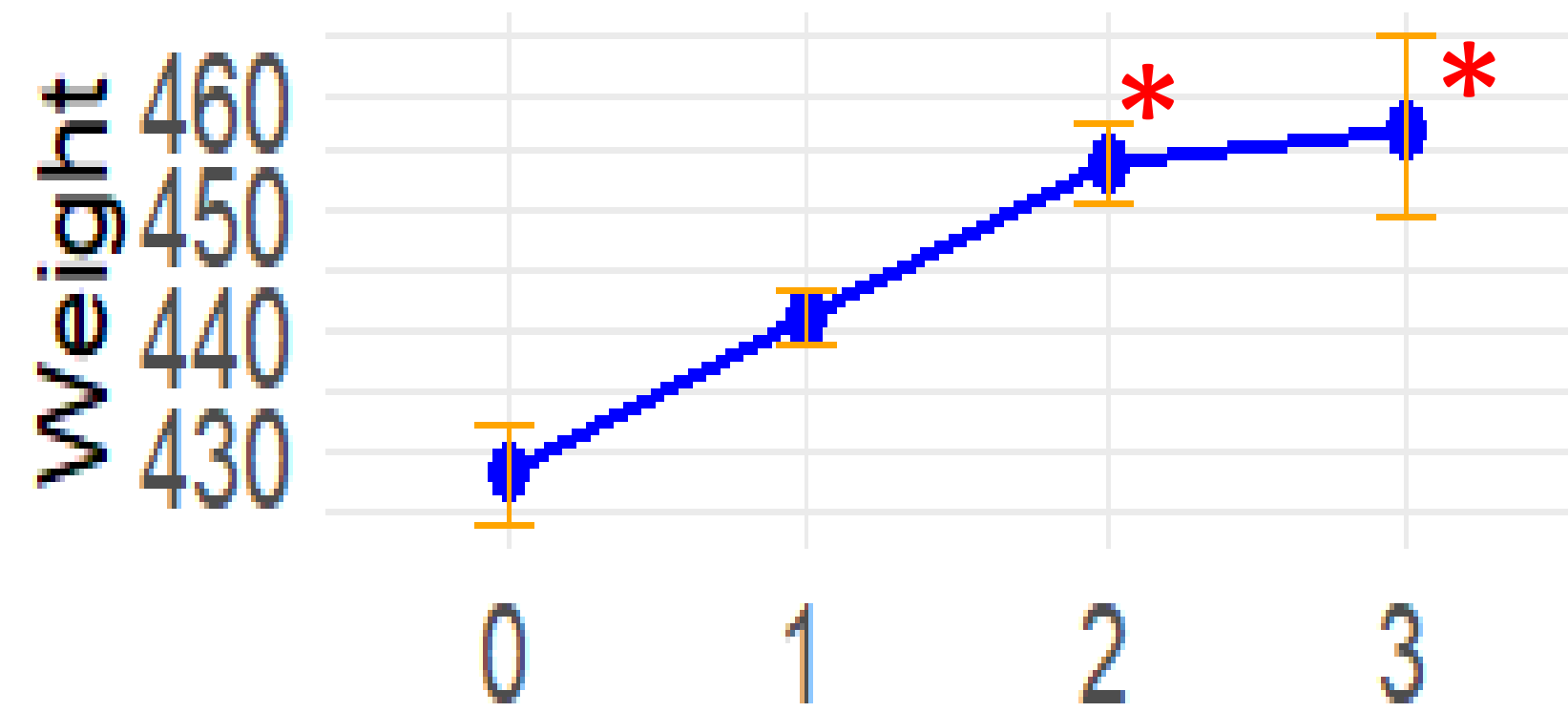
Mixed regression models

RESULTS

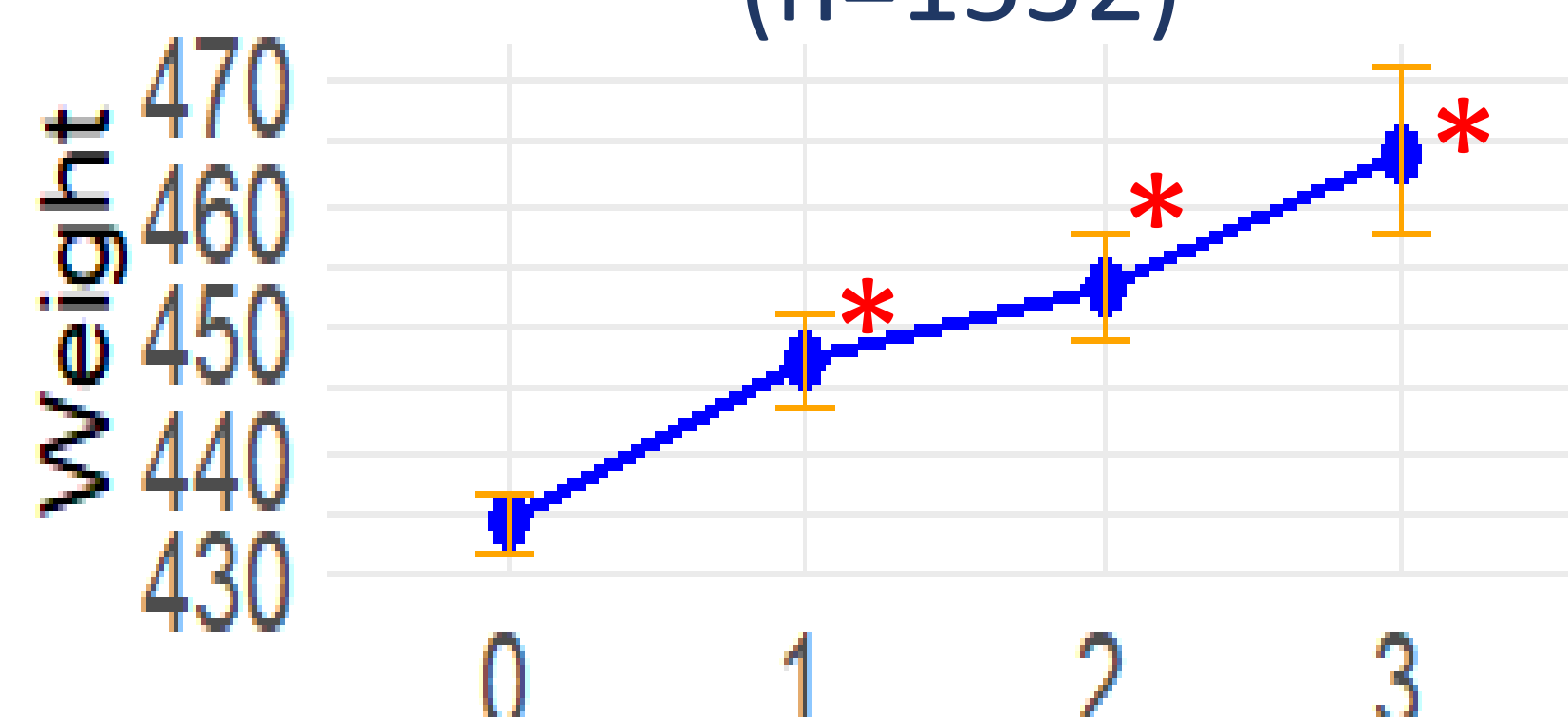
CARCASS WEIGHT



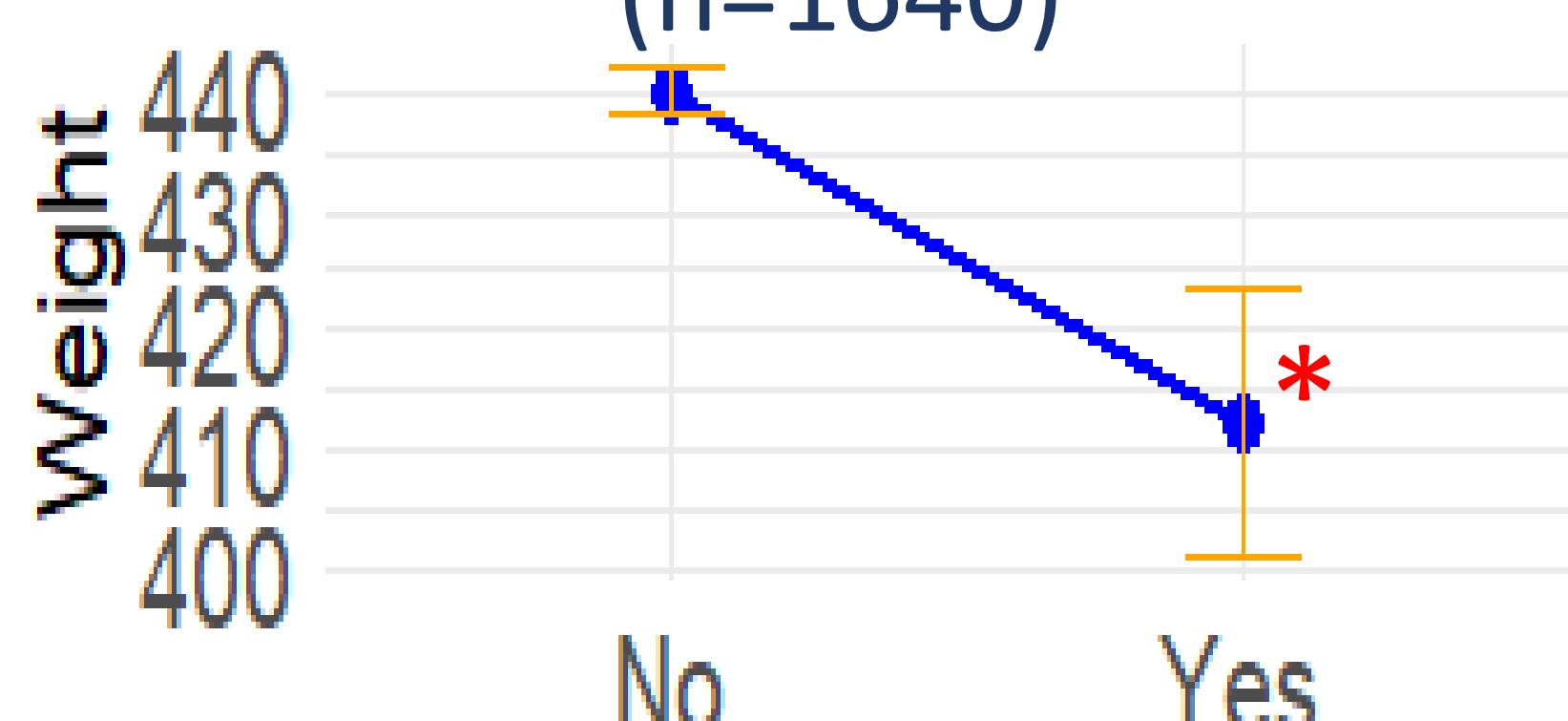
Heel Horn Erosion (n=1552)



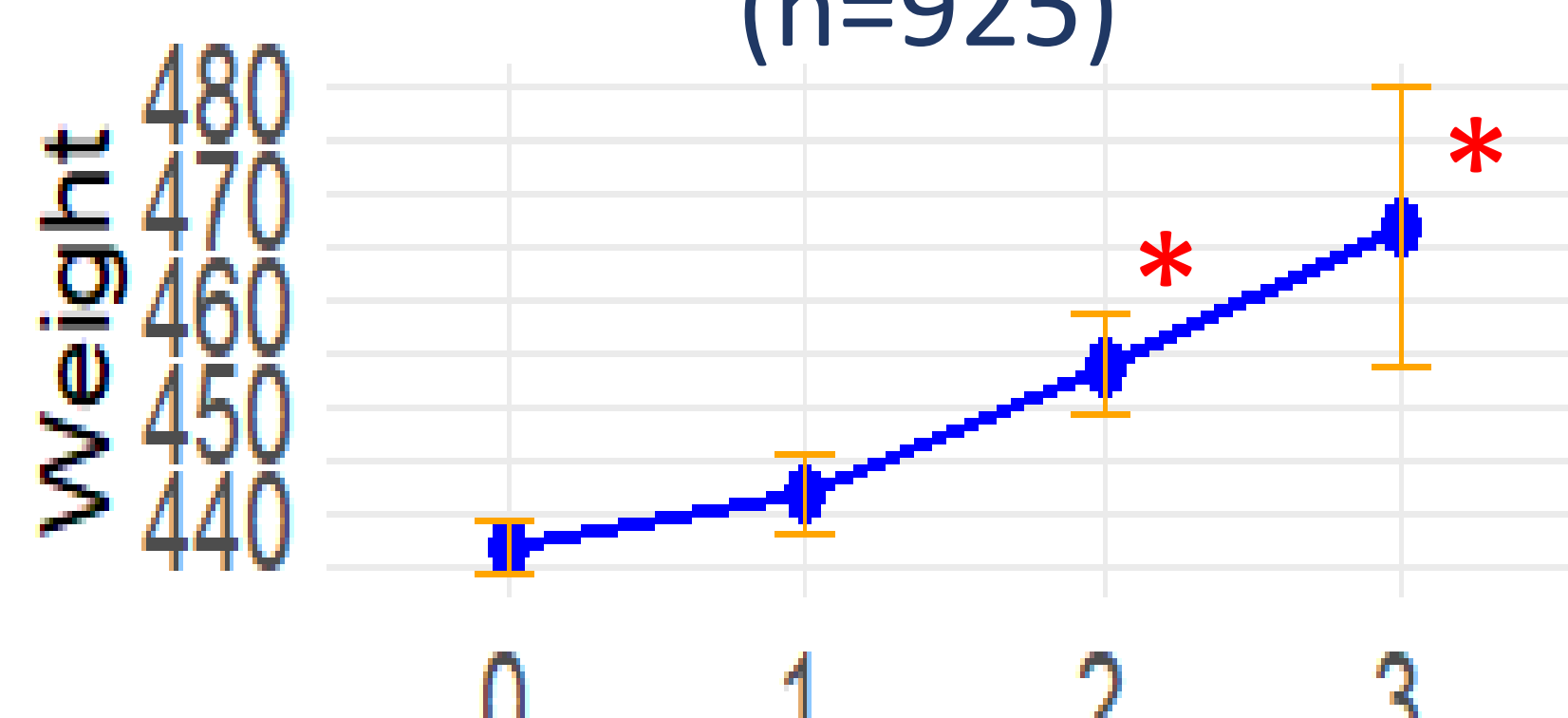
Sole hemorrhage diffused (n=1640)



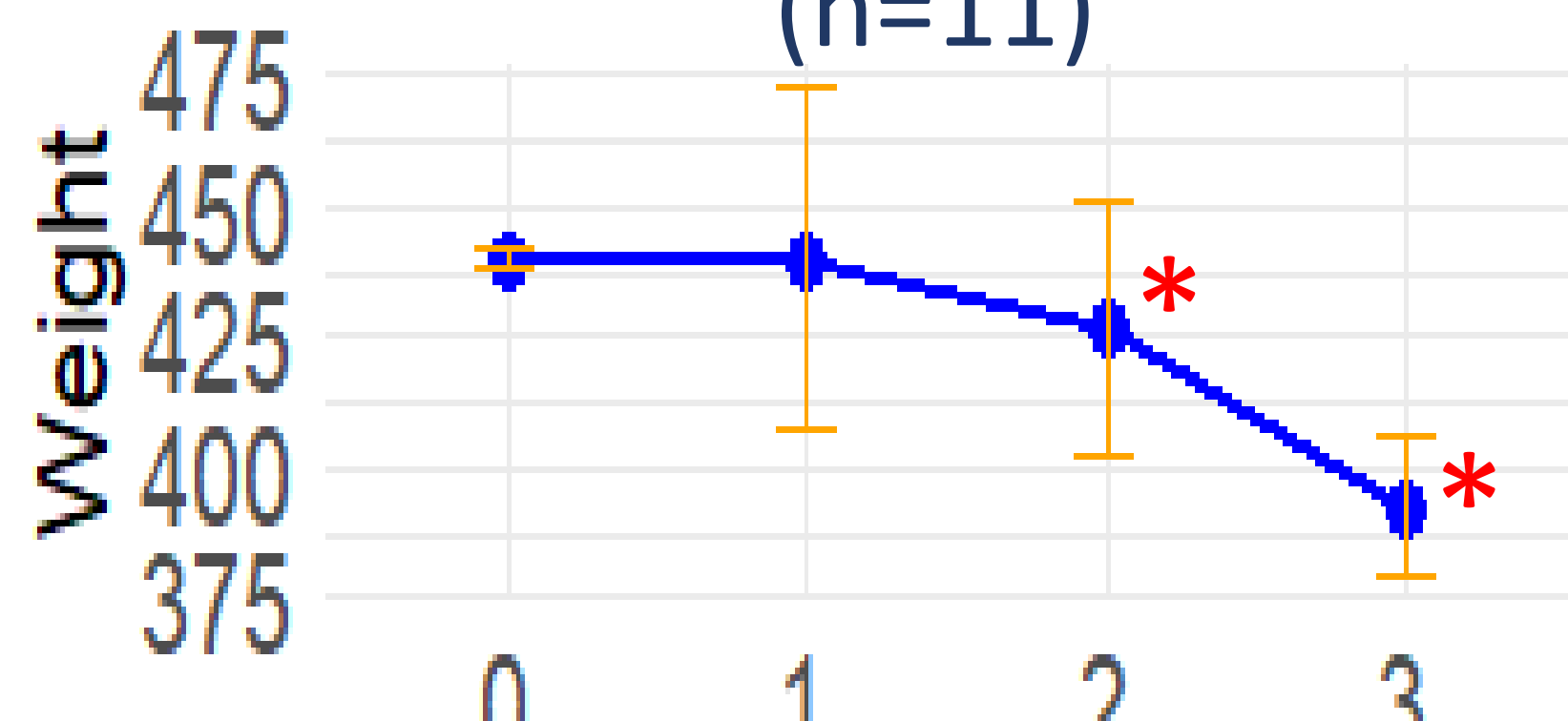
Sole hemorrhage circumscribed (n=925)



Interdigital phlegmon (n=11)



White line hemorrhage (n=1071)



Bulb ulcer (n=21)

★ Severity levels (SL) of each lesion, 0 = no lesion

* p-value<0.05

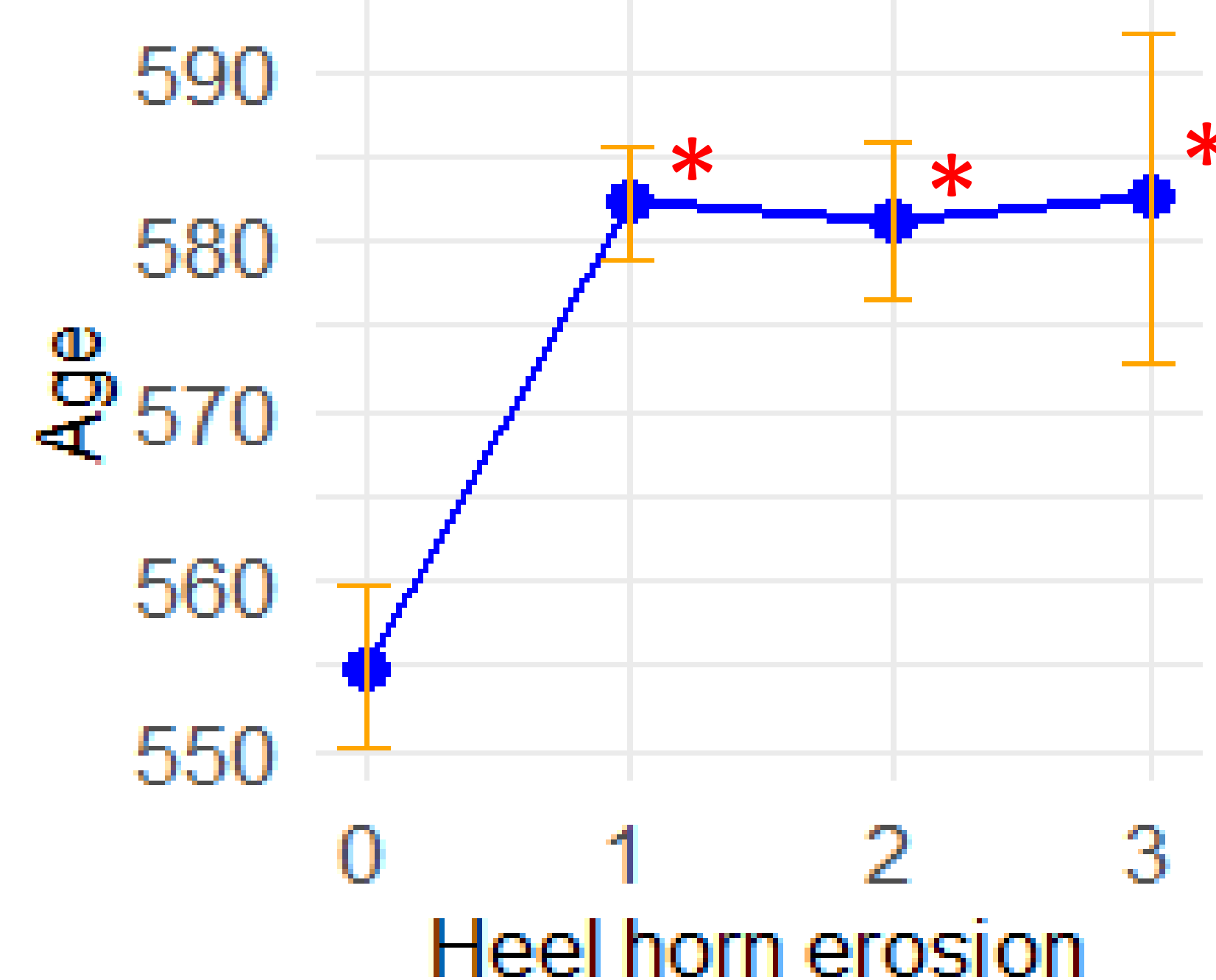
CONFORMATION

↑ Sole hemorrhage diffused, SL1

↑ Sole hemorrhage circumscribed, SL2

↓ Interdigital phlegmon

AGE AT SLAUGHTER



FAT SCORE

↓ Interdigital phlegmon

CONCLUSION

Associations detected: HHE & hemorrhages associated with ↑ carcass weight
IP associated with ↓ carcass weight, conformation & fat score

Potential new risk factors for heel and claw lesions ?



Futur longitudinal study needed to determine the direction of this association