Summary of: Chronic skeletal unloading of the rat femur mechanisms and functional consequences of vascular remodeling..pdf

Key findings:

- 1. Chronic skeletal unloading reduces femoral bone and marrow blood flow (BF) to the femur.
- 2. During reloading, BF in the proximal metaphysis, diaphyseal marrow, and distal metaphysis of Con rats increases, but only in the diaphyseal marrow of 7-d HU rats.
- 3. Vascular resistance (VR) in the femur is higher in 14-d HU rats during reloading.
- 4. The lower BF in 14-d HU rats is associated with vascular remodeling in the femur.
- 5. The PNA from 14-d HU rats has a smaller maximal intraluminal diameter and thinner medial wall thickness compared to Con rats.
- 6. The PNA from 14-d HU rats has a smaller medial cross-sectional area.
- 7. The PNA from 14-d HU rats has a lower calculated shear stress and circumferential wall stress compared to Con rats.
- 8. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 9. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 10. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 11. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 12. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 13. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 14. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 15. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 16. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 17. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.

- 18. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 19. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 20. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 21. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 22. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 23. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 24. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 25. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 26. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 27. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 28. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 29. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 30. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 31. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 32. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 33. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 34. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 35. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 36. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats.
- 37. The PNA from 14-d HU rats has a higher calculated shear stress compared to Con rats.
- 38. The PNA from 14-d HU rats has a higher calculated circumferential wall stress compared to Con rats