

# Uremia-induced effects on cardioregulatory mechanisms in the context of the cardiorenal syndrome

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**Uremia-induced effects on cardioregulatory mechanisms  
in the context of the cardiorenal syndrome**

1. Most cardiorenal mouse studies focus on selected pathological processes instead of reporting all important parameters, complicating the clear comparison of different mouse models from different studies as revealed in our recent systematic review with meta-analysis (this thesis).
2. Overall, this thesis demonstrates that the development of a cardiorenal mouse model with a clear dysfunctional cardiac phenotype as observed in CKD patients is still challenging (this thesis).
3. Whether this oxidative stress is a maladaptive predisposition, or a protective conditioning of the heart requires further investigation in future studies (this thesis).
4. Furthermore, it raises awareness for reporting a broader set of parameters of kidney and heart function and remodeling processes in cardiorenal research instead of focusing on highly selected processes, this also to avoid unnecessarily repetition of mouse experiments which may not lead to the desired outcome (this thesis).
5. However, patients with the dual burden of heart and kidney disease continue to experience unacceptably high rates of hospitalization, symptom burden, and mortality.
6. A cardioneurology multidisciplinary approach is essential in the joint management of patients with CRS with an emphasis on core outcome measures based on patient and physician priorities.
7. Some of the difficulties in defining, researching, and treating CRS stem from the fact that multiple different pathophysiologic processes are involved (hemodynamic, hormonal, inflammatory).
8. In the end, everything will be okay. If it's not okay, it's not yet the end. (Fernando Sabino)
9. A scientist in his laboratory is not a mere technician: he is also a child confronting natural phenomena that impress him as though they were fairy tales. (Marie Curie)
10. It is not our abilities that show us what we truly are, it is our choices. (Albus Dumbledore, Harry Potter and the chamber of secrets)