



## Clinical Application of Hemodialysis and Its Adverse Effects

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Deadline for manuscript  
submissions:

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### Message from the Guest Editors

Dear Colleagues,

The incidence of end-stage renal disease (ESRD) reached 3.7 million in 2016, and has been increasing by 5 ~ 6 % every year. Along with the increase in older patients with ESRD, several important pathophysiologies in hemodialysis (HD) patients including accelerating systemic atherosclerosis, vascular calcification, malnutrition, inflammation, frailty, cognitive disturbance, and so on, have recently been unveiled. These disease states complexly impact the unfavorable events and prognosis in HD patients. Excessive removal of essential substances in the body, or on the contrary, insufficient removal of harmful substances by HD treatment, might be crossly associated with pathophysiology in HD patients. On the other hand, dialysis treatment has made significant progress. Several dialysis membranes and modalities can be selected in consideration of patient status. In this Special Issue, we welcome authors to submit papers on the clinical application of HD, the beneficial effects of several dialysis membranes and modalities, unfavorable adverse effects, and characteristic pathophysiology in HD patients.





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