Reviewer's report

Title: Association of response to hepatitis B vaccination and the survival in dialysis patients

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Reviewer: Gabriel Almroth

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Association of response to hepatitis B vaccination and survival in dialysis patients:

Minor essential revision:

1. Abstract: Line 2-3: As described recently, this acquired immune dysfunction in the uremic milieu may be one of the main pathogenetic factors for mortality...instead of the main (see Background ref 1-2).

p10; A recent review indicated that bacteria-related infections mainly involve the innate immune system? In dialysis patients? Is this not oversimplified? Compare for example with the immune defence against streptococci or capsular bacteria where b-cells (adaptive immune defence) are involved.

Minor discretionary revisions:

Results: P 7; Advanced age and malnutrition were associated with increased mortality.

P8; The ROC curve shows a high capacity for discriminating infection related causes of death vs non infection related causes,

Discussion: ...; p9: have been well studied [8-10, 13].

p 10; Impaired cytotoxic CD8 T cell response limits the fight of the infected host defence system against the pathogens ...is a suggestion of different writing.

p10. Lies upstream of T-cell activation...i.e.. (Better) the pattern of recognition and the antigen presenting cell or secondary dysregulation or activation of cytokines [6,14,21].

p 10. It has been proposed that both the innate and acquired immune systems.... may be better writing tha the same sentence without both.

p11. The dysregulation of various cytokines due to the uremic milieu may link inflammation-atherosclerosis to impaired immunity inflammation.... is a suggestion of other writing

p12. Line 14: mortality
instead of morality.

**Level of interest:** An article of importance in its field

**Quality of written English:** Needs some language corrections before being published

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests.