Supplemental table 1. Cox proportional-hazards for patient mortality and technique failure.

| Patient mortality                                                                 | Univariate Cox regression analysis | Multivariate Cox regression analysis |
|-----------------------------------------------------------------------------------|------------------------------------|------------------------------------|
|                                                                                   | HR       | 95% CI     | P        | HR       | 95% CI     | P        |
| Management model (FCH vs. control)                                               | 0.828    | 0.515-1.331| 0.436    | 0.822    | 0.96-1.003 | 0.088    |
| Male (male vs. female)                                                            | 1.007    | 0.627-1.615| 0.978    | 0.874    | 0.813-0.940| <0.001   |
| Age (years)                                                                       | 0.987    | 0.969-1.004| 0.134    |          |           |          |
| BMI (kg/m²)                                                                       | 1.001    | 0.935-1.071| 0.981    | 0.502    | 0.171-1.470| 0.209    |
| Time to first peritonitis (months)                                               | 1.009    | 0.992-1.028| 0.299    |          |           |          |
| Hemoglobin (g/L)                                                                  | 0.971    | 0.954-0.989| 0.001    |          |           |          |
| Serum albumin (g/L)                                                               | 0.855    | 0.808-0.904| <0.001   |          |           |          |
| Total cholesterol (mmol/L)                                                        | 1.061    | 0.787-1.429| 0.699    |          |           |          |
| Triglyceride (mmol/L)                                                             | 1.060    | 0.833-1.348| 0.636    |          |           |          |
| Total Kt/V                                                                        | 0.263    | 0.096-0.722| 0.010    | 0.502    | 0.171-1.470| 0.209    |
| Peritoneal Kt/V                                                                   | 0.560    | 0.239-1.312| 0.182    |          |           |          |
| Hypertension (yes vs. no)                                                         | 20.942   | 0.024-18388357| 0.379 |
| Diabetes mellitus (yes vs. no)                                                    | 1.243    | 0.774-1.996| 0.367    |          |           |          |
| Dyslipidemia (yes vs. no)                                                         | 1.452    | 0.905-2.328| 0.122    |          |           |          |
| Cardiovascular disease (yes vs. no)                                               | 1.242    | 0.763-2.021| 0.383    |          |           |          |
| Cerebrovascular disease (yes vs. no)                                              | 1.642    | 0.913-2.952| 0.098    |          |           |          |

| Technique failure                                                                 | Univariate Cox regression analysis | Multivariate Cox regression analysis |
|-----------------------------------------------------------------------------------|------------------------------------|------------------------------------|
|                                                                                   | HR       | 95% CI     | P        | HR       | 95% CI     | P        |
| Management model (FCH vs. control)                                               | 0.753    | 0.303-1.874| 0.542    |          |           |          |
| Male (male vs. female)                                                            | 2.594    | 0.933-7.208| 0.068    |          |           |          |
| Age (years)                                                                       | 0.991    | 0.957-1.025| 0.584    |          |           |          |
| BMI (kg/m²)                                                                       | 0.952    | 0.832-1.088| 0.468    |          |           |          |
| Time to first peritonitis (months)                                               | 0.888    | 0.804-0.982| 0.020    | 0.904    | 0.822-0.994| 0.037    |
| Hemoglobin (g/L)                                                                  | 0.981    | 0.947-1.015| 0.269    |          |           |          |
| Serum albumin (g/L)                                                               | 0.965    | 0.869-1.071| 0.505    |          |           |          |
| Total cholesterol (mmol/L)                                                        | 0.697    | 0.370-1.314| 0.265    |          |           |          |
| Triglyceride (mmol/L)                                                             | 0.252    | 0.100-0.632| 0.003    | 0.302    | 0.906-0.947| 0.040    |
| Total Kt/V                                                                        | 0.767    | 0.149-3.941| 0.751    |          |           |          |
| Peritoneal Kt/V                                                                   | 0.356    | 0.081-1.567| 0.172    |          |           |          |
| Hypertension (yes vs. no)                                                         | 20.922   | 0.000-8804084171| 0.645 |
| Diabetes mellitus (yes vs. no)                                                    | 0.848    | 0.334-2.155| 0.729    |          |           |          |
| Dyslipidemia (yes vs. no)                                                         | 0.370    | 0.123-1.116| 0.078    |          |           |          |
| Cardiovascular disease (yes vs. no)                                               | 0.560    | 0.186-1.689| 0.303    |          |           |          |
| Cerebrovascular disease (yes vs. no)                                              | 0.360    | 0.048-2.697| 0.320    |          |           |          |

The reason for wide CI for hypertension may attribute to the very small number of unexposed hypertension cases 2/100 in conventional group, and 1/90 in FCH group.