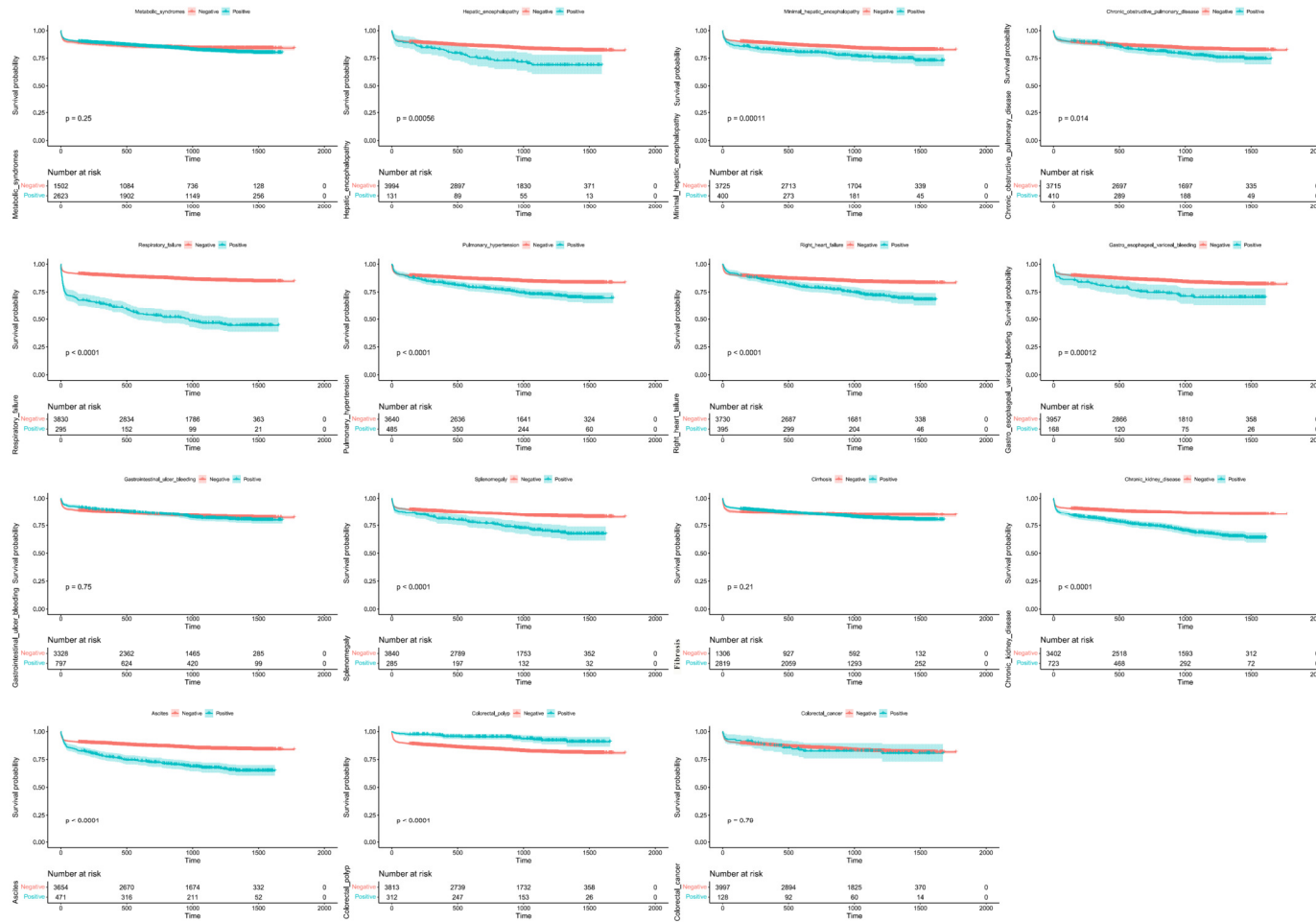


1 Supplementary Table 1. Node centrality of the training cohort and the validation
 2 cohort

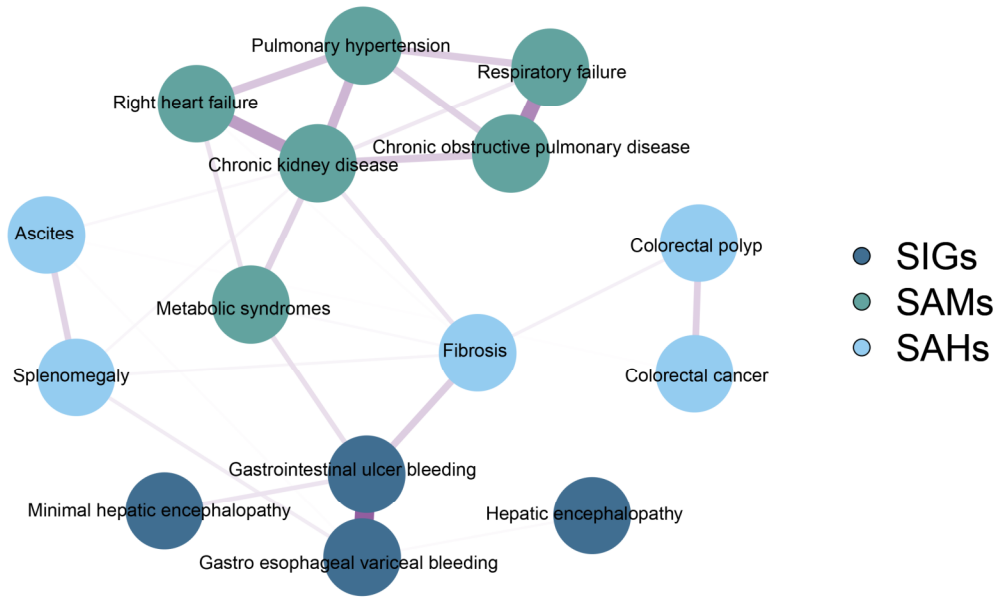
| Nodes | Measure | Training cohort (Z-score) | Validation cohort (Z-score) |
|---------------------------------------|-------------|---------------------------|-----------------------------|
| Metabolic syndromes | Betweenness | 0.47 | 0.51 |
| Hepatic encephalopathy | Betweenness | -0.83 | -0.83 |
| Minimal hepatic encephalopathy | Betweenness | -0.83 | -0.83 |
| Chronic obstructive pulmonary disease | Betweenness | 0.13 | -0.09 |
| Respiratory failure | Betweenness | -0.83 | -0.83 |
| Pulmonary hypertension | Betweenness | -0.74 | -0.76 |
| Right heart failure | Betweenness | -0.65 | -0.83 |
| Gastroesophageal variceal bleeding | Betweenness | -0.31 | 0.85 |
| Gastrointestinal ulcer bleeding | Betweenness | 1.17 | 1.99 |
| Splenomegaly | Betweenness | 0.04 | -0.29 |
| Fibrosis | Betweenness | 0.13 | 0.78 |
| Chronic kidney disease | Betweenness | 2.64 | 1.92 |
| Ascites | Betweenness | 1.08 | -0.83 |
| Colorectal polyp | Betweenness | -0.74 | 0.04 |
| Colorectal cancer | Betweenness | -0.74 | -0.83 |
| Metabolic syndromes | Closeness | 0.55 | 0.82 |
| Hepatic encephalopathy | Closeness | -0.92 | -2.09 |
| Minimal hepatic encephalopathy | Closeness | -0.99 | -0.38 |
| Chronic obstructive pulmonary disease | Closeness | 0.01 | 0.16 |
| Respiratory failure | Closeness | -0.73 | -0.12 |
| Pulmonary hypertension | Closeness | -0.70 | 0.35 |
| Right heart failure | Closeness | 0.15 | 0.40 |
| Gastroesophageal variceal bleeding | Closeness | 0.28 | 1.04 |
| Gastrointestinal ulcer bleeding | Closeness | 0.67 | 1.25 |
| Splenomegaly | Closeness | 0.92 | -0.57 |
| Fibrosis | Closeness | 0.63 | 1.26 |
| Chronic kidney disease | Closeness | 1.39 | 0.90 |
| Ascites | Closeness | 1.67 | -0.99 |
| Colorectal polyp | Closeness | -1.61 | -0.82 |
| Colorectal cancer | Closeness | -1.33 | -1.22 |
| Metabolic syndromes | Strength | -0.40 | -0.29 |
| Hepatic encephalopathy | Strength | -1.24 | -1.40 |
| Minimal hepatic encephalopathy | Strength | -1.10 | -1.19 |
| Chronic obstructive pulmonary disease | Strength | 0.61 | 0.78 |
| Respiratory failure | Strength | -0.23 | 0.54 |
| Pulmonary hypertension | Strength | 0.71 | 0.88 |
| Right heart failure | Strength | -0.27 | 0.44 |
| Gastroesophageal variceal bleeding* | Strength | 0.80 | 0.48 |
| Gastrointestinal ulcer bleeding* | Strength | 1.60 | 1.31 |
| Splenomegaly | Strength | 0.06 | -0.60 |

| | | | |
|--------------------------|----------|-------|-------|
| Fibrosis# | Strength | 0.12 | -0.29 |
| Chronic kidney disease\$ | Strength | 1.29 | 1.99 |
| Ascites# | Strength | 0.96 | -0.87 |
| Colorectal polyp | Strength | -1.42 | -0.82 |
| Colorectal cancer | Strength | -1.50 | -0.96 |

-
- 1 \$, *, #, the most important nodes in the sub-net of Schistosomial abnormal metabolic
 - 2 syndromes (SAMs), Schistosomial abnormal hemodynamics syndromes (SAHs), and
 - 3 Schistosomial inflammatory granulomatous syndromes (SIGs), respectively.



Supplementary Fig 1. Five-year survival rate of the isolated complications.



1
 2 Supplementary Fig 2. Similar network structure (with that in the training cohort) and
 3 three major clusters are seen in the validation cohort.
 4 SAHs, Schistosomial abnormal hemodynamics syndromes; SAMs, Schistosomial
 5 abnormal metabolic syndromes; SIGs, Schistosomial inflammatory granulomatous
 6 syndromes.