## **Online Data Supplement**

## Predicting Survival for Patients with Malignant Pleural Effusion: Development of the CONCH Prognostic Model

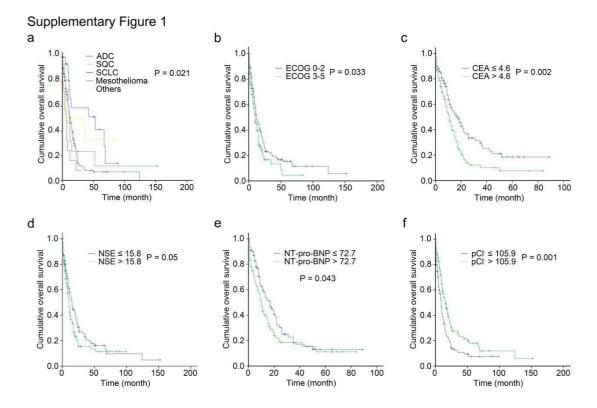
Xin Zhang, Feng-Shuang Yi\*, Huan-Zhong Shi\*

Department of Respiratory and Critical Care Medicine, Beijing Institute of Respiratory Medicine and Beijing Chao-Yang Hospital, Capital Medical University, Beijing 100020, China

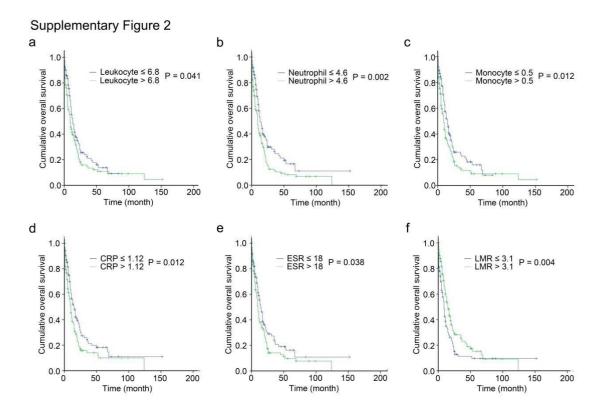
\*Corresponding author: Huan-Zhong Shi; Feng-Shuang Yi
Department of Respiratory and Critical Care Medicine, Beijing Institute of
Respiratory Medicine and Beijing Chao-Yang Hospital, Capital Medical University, 8
Gongti Nanlu, Chao-Yang District, Beijing 100020, China

Tel/Fax: (86) 10 85231890

E-mail: <a href="mailto:shihuanzhong@ccmu.edu.cn">shihuanzhong@ccmu.edu.cn</a>; <a href="mailto:yifengshuang@ccmu.edu.cn">yifengshuang@ccmu.edu.cn</a>;

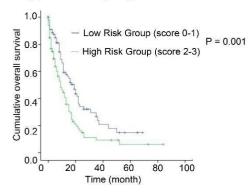


**Supplementary Figure 1**. Survival curves estimated by the Kaplan–Meier survivor function for histologic types, ECOG PS, and CEA, NSE, NT-pro-BNP, and pleural effusion chloride levels. P values are obtained by univariate Cox logistic regression.



**Supplementary Figure 2**. Survival curves estimated by the Kaplan–Meier survivor function for leukocyte, neutrophil, and monocyte counts, CRP level, and ESR and LMR. P values are obtained by univariate Cox logistic regression.

## Supplementary Figure 3



**Supplementary Figure 3.** Survival curves estimated by Kaplan–Meier survivor function of 2 groups stratified by CEA level, monocyte count and pleural effusion Cl-level.

**Supplementary Table 1**. Prognostic scoring method and multivariate analysis of prognostic factors

| MVP<br>95% CI | P value    | Points     |
|---------------|------------|------------|
| 95% CI        | P value    | Points     |
|               |            | 1 Ullis    |
|               |            |            |
|               | -          | 0          |
| .310-2.812    | 0.001      | 1          |
|               |            |            |
|               | _          | 0          |
| .057-2.242    | 0.024*     | 1          |
|               |            |            |
|               | _          | 1          |
| 0.436-0.909   | 0.013*     | 0          |
|               | .057-2.242 | .310-2.812 |

<sup>\*</sup>p<0.05

**Supplementary Table 2.** Median survival of patients according to—CEA, monocyte count and pleural effusion Cl—based strategy.

| Variable                    | n   | Median survival (IQR) months | HR    | 95% CI      | P value |
|-----------------------------|-----|------------------------------|-------|-------------|---------|
| Low Risk Group (score 0-1)  | 92  | 19 (6-21)                    | 1     | -           | -       |
| High Risk Group (score 2-3) | 112 | 9 (2-13)                     | 1.791 | 1.264-2.538 | 0.001   |