

Supplementary Table 1. Characteristics of the 14 base hospitals and population served in 2015.

Hospital name	Hospital level	ED categorization	ED annual visit volume	Number of hospital beds	Population size in the region
CGMH-KL	RH	Advanced	71,000	1,097	372,000
NTUH	AMC	Advanced	111,000	2,284	6,675,000
CGMH-LK	AMC	Advanced	169,000	3,404	7,112,000
VGH-TC	AMC	Advanced	68,000	1,587	3,326,000
CMUH	AMC	Advanced	161,000	1,764	3,272,000
CCH	AMC	Advanced	105,000	1,228	1,982,000
CGMH-CY	RH	Advanced	72,000	1,365	785,000
CMMC	AMC	Advanced	133,000	1,288	1,886,000
NCKUH	AMC	Advanced	103,000	1,193	1,886,000
VGH-KS	AMC	Advanced	88,000	1,482	2,779,000
CGMH-KS	AMC	Advanced	135,000	2,686	3,615,000
Po-Ai H	RH	Advanced	70,000	892	458,000
TZH	AMC	Advanced	52,000	987	331,000
MMH	RH	Advanced	43,000	465	221,000

ED = emergency department; RH = regional hospital; AMC = academic medical center.

Hospital abbreviations in the order of the network number: CGMH-KL=Chang Gung Memorial Hospital-Keelung; NTUH=National Taiwan University Hospital; CGMH-LK=Chang Gung Memorial Hospital-Linkou; VGH-TC=Veterans General Hospital-Taichung; CMUH=China Medical University Hospital; CCH=Changhua Christian Hospital; CGMH-CY=Chang Gung Memorial Hospital-Chiayi; CMMC=Chi-Mei Medical Center; NCKUH=National Cheng-Kung University Hospital; VGH-KS=Veterans General Hospital-Kaohsiung, CGMH-KS=Chang Gung Memorial Hospital-Kaohsiung, TZH=Tzu-Chi Hospital; MMH=MacKay Memorial Hospital.

Supplementary Figure 1. National Electronic Referral System, an online national electronic transfer platform.



衛生福利部
MINISTRY OF HEALTH AND WELFARE

緊急傷病患轉診電子作業平台

公告

new

MARS 2.0全國分區說明會 (醫院分享)

登入網站

帳號：

密碼：

驗證碼：

7KIWA
重新產生驗證碼

確定

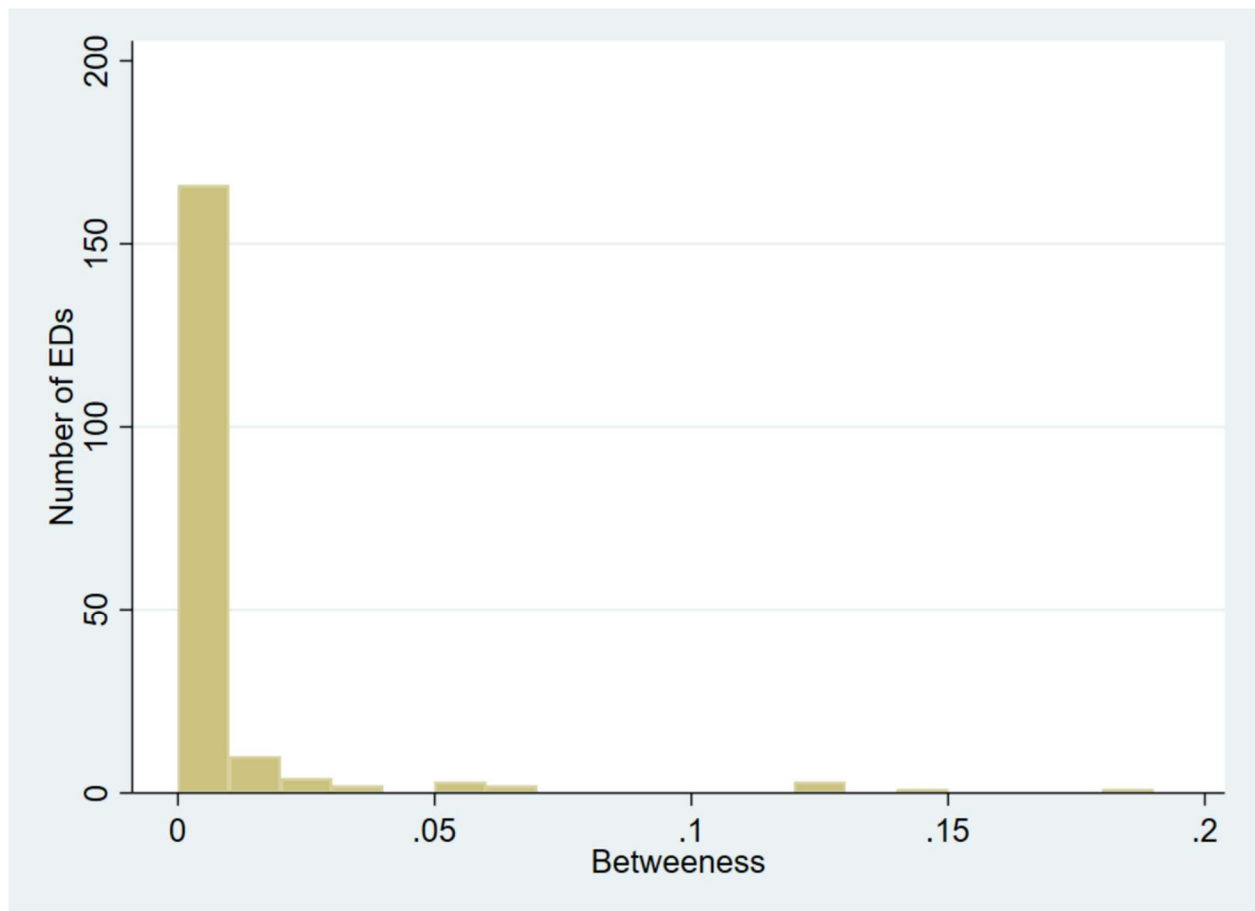
請嚴防病例隱私外流，資料專管中心不會以電子郵件或任何方式，要求醫院提供帳號資料或認證。

提升急診暨轉診品質專案管理中心

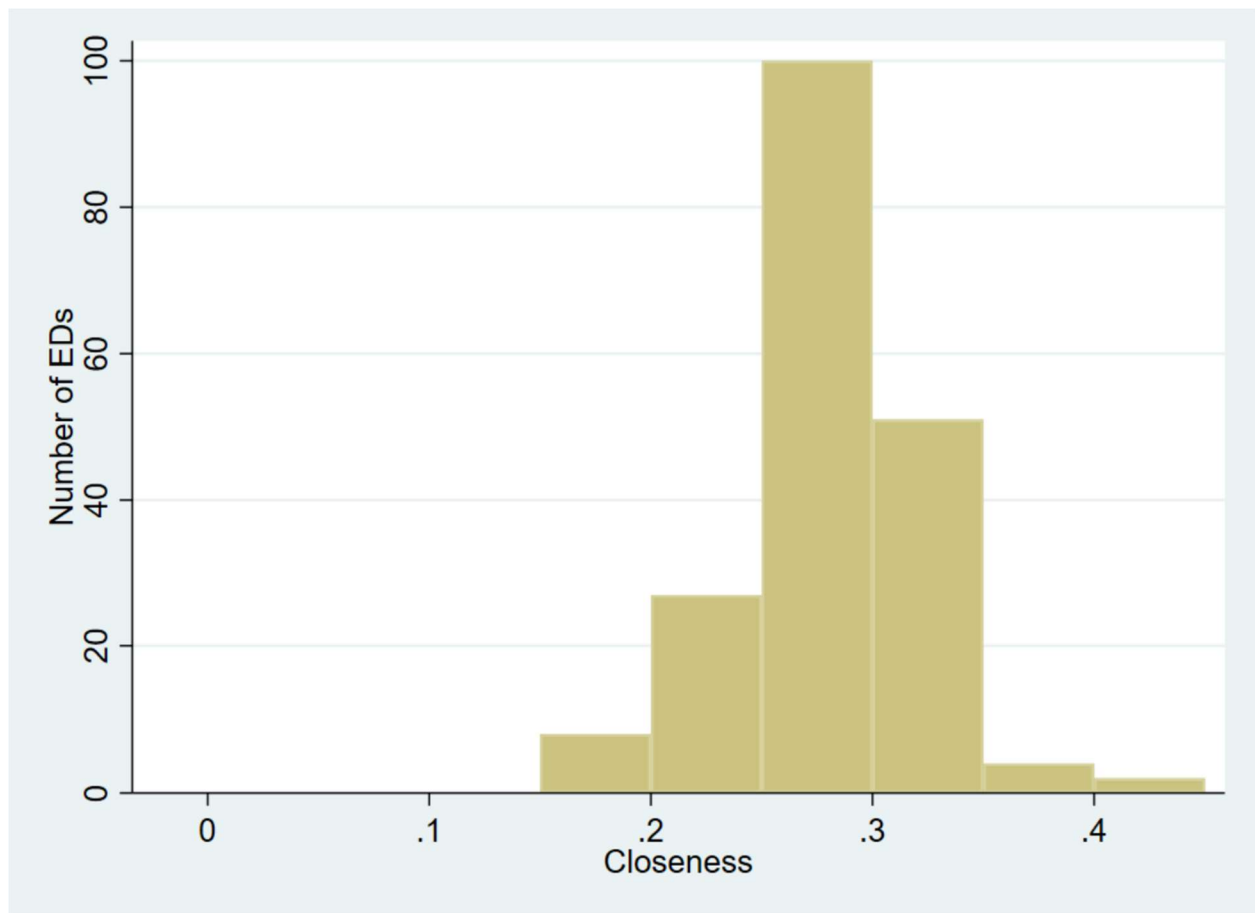
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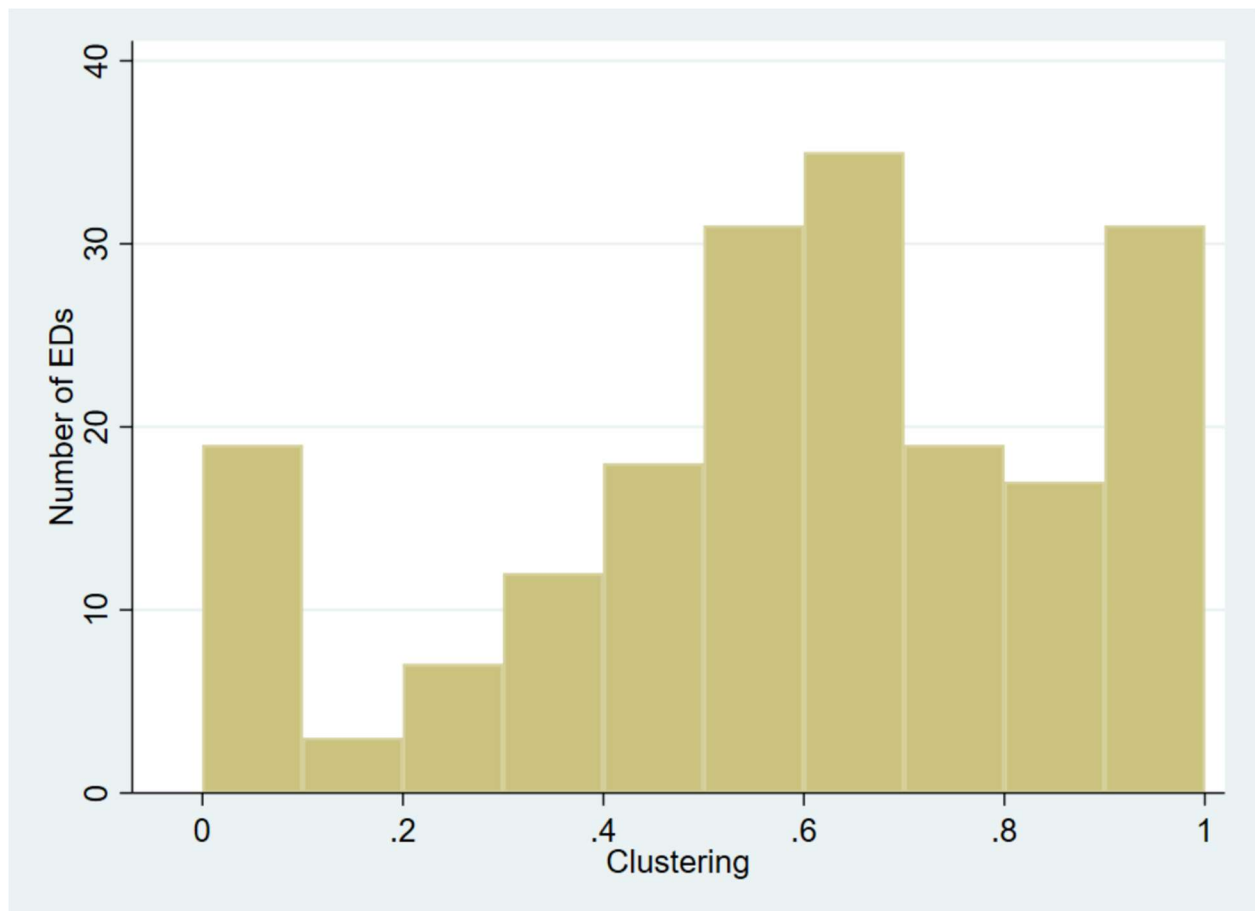
Supplementary Figure 2. The distribution of betweenness.



Supplementary Figure S3. The distribution of closeness.



Supplementary Figure S4. The distribution of local clustering coefficient.



Supplementary Sample Code

*use a local network file

nwuse localfilename

*summarizing the network

nwsummarize,detail

*clustering coefficient

nwclustering

*in_degrees and out_degrees

nwdegree

*betweenness

nwbetween

*local components

nwcomponents

*dyads and triads

nwdyads

nwtriads

* mapping

nwplot, nodexy(longitude latitude) layout(nodexy) edgesize (network,forcekeys (1 2)) color
(base)

Supplementary Movie. A movie clip showing the network change over the three years.