

Epidemiological and Etiological Characteristics of Hand, Foot, and Mouth Disease in Henan, China, 2008-2013

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Supplementary Table 1. The GenBank accession numbers of SFTSV obtained in this study

Name of strain	GenBank accession No.	Isolation source	Geographic origin	Clinical manifestation	Year of isolation	Enterovirus serotype
Henan10-08-China	GU366191	stool	Zhengzhou	Severe case	2008	EV71
HN08-F8	HM038012	stool	Xinxiang	Mild case	2008	EV71
HN08-HLF21	HM038014	stool	Xinxiang	Mild case	2008	EV71
HN08-HLF23	HM038015	stool	Xinxiang	Mild case	2008	EV71
HN08-HLF4	HM038010	stool	Xinxiang	Mild case	2008	EV71
HN08-LF5	HM038011	stool	Xinxiang	Mild case	2008	EV71
03-2009	KM288732	stool	Zhumadian	Fatal case	2009	EV71
06-2009	KM288735	stool	Zhumadian	Mild case	2009	EV71
07-2009	KM288736	stool	Zhumadian	Severe case	2009	EV71
08-2009	KM288737	stool	Zhumadian	Mild case	2009	EV71
01-2009	KM288730	stool	Zhoukou	Mild case	2009	EV71
02-2009	KM288731	stool	Zhoukou	Severe case	2009	EV71
04-2009	KM288733	stool	Zhengzhou	Severe case	2009	EV71
05-2009	KM288734	stool	Zhengzhou	Mild case	2009	EV71
17-2009	KM288746	stool	Xinyang	Mild case	2009	EV71
18-2009	KM288747	stool	Xinyang	Severe case	2009	EV71
19-2009	KM288748	stool	Xinyang	Severe case	2009	EV71
20-2009	KM288749	stool	Xinyang	Mild case	2009	EV71
HN-09-Shangqiu-101	KM288753	stool	Shangqiu	Mild case	2009	EV71
HN-09-Shangqiu-251	KM288754	stool	Shangqiu	Fatal case	2009	EV71
15-2009	KM288744	stool	Puyang	Severe case	2009	EV71
16-2009	KM288745	stool	Puyang	Mild case	2009	EV71
HN-09-Luohe-193	KM288752	stool	Luohe	Severe case	2009	EV71
09-2009	KM288738	stool	Kaifeng	Mild case	2009	EV71
10-2009	KM288739	stool	Kaifeng	Severe case	2009	EV71
11-2009	KM288740	stool	Kaifeng	Mild case	2009	EV71
EV71-106/2009	HQ998852	stool	Kaifeng	Mild case	2009	EV71
HN-09-Kaifeng-39	KM288751	stool	Kaifeng	Mild case	2009	EV71
12-2009	KM288741	stool	Jiaozuo	Mild case	2009	EV71
13-2009	KM288742	stool	Jiaozuo	Mild case	2009	EV71
14-2009	KM288743	stool	Jiaozuo	Mild case	2009	EV71
HN-09-Anyang-223	KM288750	stool	Anyang	Severe case	2009	EV71
HENAN/DC/2010	HQ325852	stool	Zhengzhou	Fatal case	2010	EV71
1938-2010	KM260010	stool	Xinxiang	Severe case	2010	EV71
1906-2010	KM260009	stool	Sanmenxia	Mild case	2010	EV71
EV71-294/2010	HM245927	stool	Pingdingshan	Mild case	2010	EV71
1107-2010	KM260008	stool	Luohe	Mild case	2010	EV71
1981-2010	KM260011	stool	Kaifeng	Mild case	2010	EV71
EV71-399/2010	HM245928	stool	Kaifeng	Severe case	2010	EV71
CA16/HN1668/CHN/2010	JF695010	stool	Kaifeng	Mild case	2010	CA16

CA16/HN1129/CHN/2010	JF695003	stool	Luoyang	Mild case	2010	CA16
CA16/HN1131/CHN/2010	JF695004	stool	Luoyang	Mild case	2010	CA16
CA16/HN1661/CHN/2010	JF695008	stool	Nanyang	Severe case	2010	CA16
CA16/HN1662/CHN/2010	JF695009	stool	Nanyang	Severe case	2010	CA16
HN1662/HN/CHN/2010	JN674176	stool	Nanyang	Severe case	2010	CA16
CA16/HN1514/CHN/2010	JF695005	stool	Zhengzhou	Severe case	2010	CA16
CA16/HN1516/CHN/2010	JF695006	stool	Zhengzhou	Severe case	2010	CA16
CA16/HN1539/CHN/2010	JF695007	stool	zhoukou	Mild case	2010	CA16
CA16/HN1120/CHN/2010	JF695002	stool	Zhumadian	Mild case	2010	CA16
HN1360/HN/CHN/2011	JQ639383	stool	Hebi	Mild case	2011	EV71
7-2011	KM260012	stool	kaifeng	Mild case	2011	EV71
9-2011	KM260013	stool	kaifeng	Mild case	2011	EV71
143-2011	KM260014	stool	Luoyang	Mild case	2011	EV71
208-2011	KM260018	stool	Luohe	Severe case	2011	EV71
512-2011	KM260019	stool	Luohe	Severe case	2011	EV71
173-2011	KM260017	stool	Sanmenxia	Mild case	2011	EV71
533-2011	KM260020	stool	Sanmenxia	Mild case	2011	EV71
170-2011	KM260016	stool	Shangqiu	Mild case	2011	EV71
153-2011	KM260015	stool	Zhengzhou	Severe case	2011	EV71
HN318/HN/CHN/2011	JQ639384	stool	Zhengzhou	Fatal case	2011	EV71
EV71-01011Y	JX017384	stool	Zhengzhou	Mild case	2011	EV71
542-2011	KM260056	stool	Zhengzhou	Mild case	2011	CA16
354-2011	KM260061	stool	Xinxiang	Mild case	2011	CA16
78-2011	KM260064	stool	Xinxiang	Mild case	2011	CA16
80-2011	KM260063	stool	Xinxiang	Mild case	2011	CA16
97-2011	KM260062	stool	Xinxiang	Mild case	2011	CA16
388-2011	KM260060	stool	Nanyang	Mild case	2011	CA16
510-2011	KM260057	stool	Luohe	Mild case	2011	CA16
416-2011	KM260059	stool	Luoyang	Mild case	2011	CA16
491-2011	KM260058	stool	Kaifeng	Mild case	2011	CA16
873-2012	KM260021	stool	Pingdingshan	Severe case	2012	EV71
1571-2012	KM260022	stool	Shangqiu	Mild case	2012	EV71
1573-2012	KM260023	stool	Shangqiu	Mild case	2012	EV71
1576-2012	KM260024	stool	Shangqiu	Mild case	2012	EV71
1056-2012	KM260071	stool	Nanyang	Mild case	2012	CA16
1633-2012	KM260067	stool	Luohe	Mild case	2012	CA16
1635-2012	KM260066	stool	Luohe	Mild case	2012	CA16
1637-2012	KM260065	stool	Luohe	Mild case	2012	CA16
1613-2012	KM260068	stool	Hebi	Mild case	2012	CA16
1560-2012	KM260070	stool	Anyang	Mild case	2012	CA16
1561-2012	KM260069	stool	Anyang	Mild case	2012	CA16
762-2013	KM260033	stool	Zhengzhou	Mild case	2013	EV71
355-2013	KM260031	stool	Xinxiang	Severe case	2013	EV71
229-2013	KM260030	stool	Shangqiu	Mild case	2013	EV71

917-2013	KM260034	stool	Shangqiu	Mild case	2013	EV71
473-2013	KM260032	stool	Luohe	Severe case	2013	EV71
156-2013	KM260027	stool	Luoyang	Severe case	2013	EV71
157-2013	KM260028	stool	Luoyang	Mild case	2013	EV71
82-2013	KM260025	stool	Kaifeng	Mild case	2013	EV71
83-2013	KM260026	stool	Kaifeng	Mild case	2013	EV71
212-2013	KM260029	stool	Hebi	Severe case	2013	EV71
902-2013	KM260098	stool	zhoukou	Mild case	2013	CA16
910-2013	KM260097	stool	zhoukou	Mild case	2013	CA16
1022-2013	KM260080	stool	Zhengzhou	Mild case	2013	CA16
764-2013	KM260101	stool	Zhengzhou	Severe case	2013	CA16
765-2013	KM260100	stool	Zhengzhou	Severe case	2013	CA16
1055-2013	KM260075	stool	Xuchang	Mild case	2013	CA16
1065-2013	KM260074	stool	Xuchang	Mild case	2013	CA16
1066-2013	KM260073	stool	Xuchang	Mild case	2013	CA16
16-2013	KM260120	stool	Xuchang	Mild case	2013	CA16
283-2013	KM260107	stool	Xuchang	Severe case	2013	CA16
1003-2013	KM260081	stool	Xinyang	Mild case	2013	CA16
1078-2013	KM260072	stool	Xinxiang	Mild case	2013	CA16
1046-2013	KM260076	stool	Shangqiu	Mild case	2013	CA16
113-2013	KM260111	stool	Shangqiu	Mild case	2013	CA16
915-2013	KM260096	stool	Shangqiu	Mild case	2013	CA16
916-2013	KM260095	stool	Shangqiu	Mild case	2013	CA16
289-2013	KM260106	stool	Puyang	Severe case	2013	CA16
23-2013	KM260119	stool	Pingdingshan	Mild case	2013	CA16
882-2013	KM260099	stool	Pingdingshan	Mild case	2013	CA16
96-2013	KM260113	stool	Nanyang	Mild case	2013	CA16
97-2013	KM260112	stool	Nanyang	Mild case	2013	CA16
154-2013	KM260110	stool	Luoyang	Mild case	2013	CA16
40-2013	KM260118	stool	Luoyang	Mild case	2013	CA16
199-2013	KM260109	stool	Kaifeng	Mild case	2013	CA16
72-2013	KM260117	stool	Kaifeng	Mild case	2013	CA16
76-2013	KM260116	stool	Kaifeng	Mild case	2013	CA16
80-2013	KM260115	stool	Kaifeng	Mild case	2013	CA16
929-2013	KM260094	stool	Kaifeng	Mild case	2013	CA16
93-2013	KM260114	stool	Kaifeng	Mild case	2013	CA16
995-2013	KM260083	stool	Kaifeng	Mild case	2013	CA16
998-2013	KM260082	stool	Kaifeng	Mild case	2013	CA16
374-2013	KM260105	stool	Jiyuan	Severe case	2013	CA16
388-2013	KM260104	stool	Jiyuan	Mild case	2013	CA16
1027-2013	KM260079	stool	Hebi	Mild case	2013	CA16
1028-2013	KM260078	stool	Hebi	Mild case	2013	CA16
1030-2013	KM260077	stool	Hebi	Mild case	2013	CA16
205-2013	KM260108	stool	Hebi	Mild case	2013	CA16

968-2013	KM260090	stool	Hebi	Mild case	2013	CA16
969-2013	KM260089	stool	Hebi	Mild case	2013	CA16
970-2013	KM260088	stool	Hebi	Mild case	2013	CA16
752-2013	KM260103	stool	Anyang	Mild case	2013	CA16
753-2013	KM260102	stool	Anyang	Mild case	2013	CA16
938-2013	KM260093	stool	Anyang	Mild case	2013	CA16
939-2013	KM260092	stool	Anyang	Mild case	2013	CA16
940-2013	KM260091	stool	Anyang	Mild case	2013	CA16
987-2013	KM260087	stool	Anyang	Mild case	2013	CA16
988-2013	KM260086	stool	Anyang	Mild case	2013	CA16
990-2013	KM260085	stool	Anyang	Mild case	2013	CA16
991-2013	KM260084	stool	Anyang	Mild case	2013	CA16

Supplementary Table 2. Spatial-temporal clusters of HFMD, Henan Province, 2008 to 2013

Cluster period	Cluster center /Radius	Number of counties in the cluster	Observed cases	Expected cases	Relative risk	P-value
2009-2010	(34.46 N, 113.05 E) / 92.94 km	54	78431	33384.86	2.68	< 0.001
2010	(32.98 N, 113.99E) / 98.61 km	26	22162	12196.66	1.86	< 0.001
2009	(34.45 N, 115.07 E) / 79.67 km	19	13992	8979.75	1.58	< 0.001
2009-2010	(35.90 N, 114.19 E) / 32.06 km	10	8989	2917.46	3.13	< 0.001
2009-2010	(35.86 N, 115.51E) / 44.74 km	6	8687	3527.12	2.50	< 0.001