

Research Article Characterization of Clinical Salmonella entericas Trains in Huzhou, China

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Background. Salmonella enterica subspecies *enterica* causes salmonellosis in humans and animals and is an important antecedent of food infections worldwide. This study collected 105 clinical *S. enterica* isolates from diarrhoea samples from six sentinel hospitals for active surveillance of foodborne diseases in Huzhou, China, between 2018 and 2020. These represented all the *Salmonella* isolates collected in Huzhou during that period. *Methods*. The isolates were characterized by serovar determination, antimicrobial susceptibility tests, and pulse-field gel electrophoresis (PFGE) typing. *Results*. The 105 *Salmonella* strains were mainly *S. typhimurium* (35.24%, 95% CI from 25.95 to 44.53%) and *S. enteritidis* (18.10%, 95% CI from 10.61 to 25.58%). Testing indicated that the resistance rate of the *Salmonella* strains ranged from 0.00% to 70.48%, and the highest resistance rate was for ampicillin (70.48%; 74/105), followed by tetracycline (67.62%; 71/105) and doxycycline (65.71%; 69/105). Following *Xba*I digestion, the 105 strains yielded 93 PFGE patterns, and 15 clones had similarity values >85.00%. *Conclusions*. Our analyses revealed the serovar distribution of isolates recovered from diarrhoea patients and the characteristics of resistant strains in Huzhou from 2018 to 2020. Our results highlight a serovar shift and a concerning number of multidrug-resistant (MDR) strains. Continued surveillance of *Salmonella* and their MDR profiles and efforts to control the rapid increase in antimicrobial resistance among *Salmonella* in Huzhou are needed.

1. Introduction

Salmonella is an important zoonotic pathogen in Enterobacteriaceae. It can survive for long periods in meat, eggs, and related products, and frequently causes human gastroenteritis and other types of food poisoning, especially in developing countries [1]. Salmonella can contaminate the entire food chain and eventually infect people during Salmonella outbreaks [2]. Salmonella is the major pathogen causing foodborne diseases [3, 4]. Salmonellosis causes approximately 93.8 million cases of gastroenteritis and 155,000 deaths per year worldwide [5] and often acts in coinfection with other enteric pathogens [6]. Salmonella infection-related hospitalizations and deaths dominated foodborne disease outbreaks in the United States in 2011, in both active and passive surveillance systems [3]. In China, 9.035 million cases of foodborne nontyphoid salmonellosis were reported every year, with 792 deaths every year [7]. Salmonellosis affects both human health and the economy.

Serotyping is the traditional method for subtyping and differentiating *Salmonella* isolates based on the Kauffmann–White (KW) scheme. Over 2,700 *Salmonella* serotypes are known [8]. However, only 40~50 serotypes have been isolated from humans, animals, and food [9]. The main serotypes of gastroenteritis cases are *Salmonella enterica serotypes enteritidis* and *typhimurium*, while the main serotype in animals/animal products is Indiana [10, 11]. While the traditional serotypes, it cannot identify different strains of the same serotype [12]. Pulsed-field gel electrophoresis (PFGE) determines the kinship of strains isolated by other means, based on the principle that individuals from the same parent have common genetic material and the same PFGE fingerprints. Determining the etiological relationships

among cases can compensate for serotyping deficiencies [12, 13].

Antibiotics are commonly used to treat *Salmonella* infection, but extensive use of antibiotics has increased the number of *Salmonella* serotypes resistant to various antibiotics [2, 14]. Outbreaks of drug-resistant *Salmonella* (and changes in the drug resistance spectrum) are difficult to treat and threaten public health. To understand *Salmonella*'s serotypes, drug resistance, and molecular typing characteristics in Huzhou, 105 strains of *Salmonella* isolated from diarrhoea cases in Huzhou from 2018 to 2020 were typed serologically, and drug resistance analysis and PFGE typing of the strains were performed.

2. Materials and Methods

2.1. Bacterial Isolates. The study examined 105 Salmonella strains isolated from six active foodborne surveillance sentinel hospitals in Huzhou, Zhejiang from 2018 to 2020 (31, 49, and 25 strains, respectively). The standard Salmonella enterica strain for PFGE is serotype Braenderup (H9812), from the Zhejiang Center for Disease Control and Prevention.

2.2. Isolation and Identification of Bacteria. Diarrhoea (anus swab) specimens were grown in selenite brilliant green sulfa enrichment broth and then inoculated in Salmonella chromogenic medium for separation. Suspicious colonies were identified after the pure culture. Finally, a Vitekautomatic bacterial identification instrument (bio Mérieux, Inc., Marcy-l'Étoile, France) was used for the biochemical identification of the Salmonella strains.

2.3. Serotyping. The isolated, purified positive strains were inoculated on blood plates and cultured at 37 for 18 h. A single colony was selected for O antigen slide agglutination. Then, *Salmonella* H phase induced agar was used for H1 and H2 phase flagellar induction and serum agglutination. The K-W serotyping table was searched for the obtained antigen formula to determine the serotype. Normal saline was used as a self-coagulation control.

2.4. Antimicrobial Susceptibility Testing. The antimicrobial susceptibilities of the 105 clinical Salmonella strains were tested using the broth microdilution method and classified as sensitive, intermediate, or resistant according to the Clinical and Laboratory Standards Institute (CLSI) breakpoints for Salmonella strains. Escherichia coli ATCC 25922 was used as a control. The results were analysed according to the CLSI breakpoints.

The identification board contains the following 30 antibiotics: ampicillin (AMP), AMP/sulbactam (AMS), tetracycline (TET), chloramphenicol (CHL), cotrimoxazole (SXT), cefazolin (CFZ), cefotaxime (CTX), ceftazidime (CAZ), cefoxitin (CFX), gentamicin (GEN), imipenem (IMI), naphthalic acid (NAL), azithromycin (AZI), sulfisoxazole (SuL), ciprofloxacin (CIP), amoxicillin-clavulanic acid (AMC), cefotaxime-clavulanic acid (CTX/C), ceftazidime-clavulanic acid (CAZ/C), polymyxin E (CT), polymyxin B (PB), minocycline (MIN), amikacin (AN), aztreonam (ATM), cefepime (FEP), meropenem (MEM), levofloxacin (LEV), doxycycline (DOX), kanamycin (KAN), streptomycin (STR), and gemifloxacin (GMI).

2.5. Pulsed-Field Gel Electrophoresis. The Salmonella isolates were subjected to PFGE analysis according to the standard nontyphoid Salmonella PFGE method of the National Pathogen Identification Network. The Salmonella standard strain H9812 was used as the standard. Briefly, the chromosomal DNA was digested with XbaI. The restriction fragments were resolved with 1% SeaKem gold agarose gels in 0.5% Tris-boric acid-EDTA buffer using the CHEF Mapper XA system (Bio-Rad Laboratories, Richmond, CA, USA). The PFGE patterns were analyzed using BIONU-MERICS 7.1. Clustering was performed using the unweighted pair group method and the Dice correlation coefficient with a position tolerance of 1.5%. Clusters were defined using a 90% similarity cutoff [15].

3. Results

3.1. Serotyping. From 2018 to 2020, the Huzhou Foodborne Disease Surveillance System isolated 105 Salmonella strains. These were divided into 26 serotypes belonging to six groups: groups B (6 serotypes), C1 (7 serotypes), C2 (1 serotype), C3 (4 serotypes), D (4 serotypes), and E1 (4 serotypes). There were 46, 26, and 15 strains from groups B, D, and E1, respectively. S. enterica serovar typhimurium was the most common in group B. The prevalence was 35.24% (95% CI, from 25.95 to 44.53%). The prevalence of S. enterica serovar enteritidis, the most common in group D, was 18.10% (95% CI, 10.61-25.58). S. enterica serovar London, however, was the most common in group E1 with a prevalence of 8.57% (95%CI, 3.13-14.01). Salmonella Thompson and Salmonella Tennessee, however, were the most common in group C with a prevalence of 2.86% (95% CI, 0-6.1). The other Salmonella strains accounted for low proportions (Table 1).

3.2. Antimicrobial Resistance Profile. Table 2 shows the results of drug sensitivity testing of the 105 *Salmonella* strains to 30 antibiotics. The sensitivity ranged from 19.05% to 100%. The greatest sensitivity was to imipenem (100%), followed by azithromycin and amikacin (both 98.10%). The sensitivities to cefoxitin, cefotaxime-clavulanic acid, ceftazidime-clavulanic acid, aztreonam, cefepime, meropenem, and kanamycin all exceeded 90.00%. The rates for levofloxacin and AMP/sulbactam were 66.67% and 60.95%, respectively. The drug resistance rates for the 30 antibiotics ranged from 0.00% to 70.48%. AMP (70.48%) had the highest drug resistance rate, followed by TET (67.62%) and DOX (65.71%).

Of the 105 Salmonella strains, 80 were resistant to three or more antibiotics, and the total multiple drug resistance (MDR) rate was 76.19% (80/105). Drug resistance profiles

TABLE 1: Number of isolates and prevalence at 95% CI of salmonella serotypes in 105 *Salmonella* strains collected from 2018 to 2020 in six sentinel hospitals from Huzhou, Zhejiang, China.

Group	Serotype	Isolates	Prevalence (%)	95% CI	
	Salmonella Stanley	3	2.86	0-6.1	
	Salmonella Delpy	3	2.86	0-6.1	
	Salmonella typhimurium	37	35.24	25.95-44.53	
В	Salmonella Indiana	1	0.95	0-2.84	
	Salmonella Tumody	1	0.95	0-2.84	
	Salmonella Derby	1	0.95	0-2.84	
	Salmonella Brendenlope	2	1.91	0-4.56	
	Salmonellae	1	0.95	0-2.84	
	Leeson Salmonella	2	2.96	0 (1	
	Thompson	3	2.86	0-6.1	
C1	<i>Salmonella</i> Vilshaw	1	0.95	0-2.84	
	Salmonella Infantile	1	0.95	0-2.84	
	Salmonella Mbandaka	1	0.95	0-2.84	
	Salmonella	3	2.86	0-6.1	
C2	Salmonella	2	1.91	0-4.56	
	Munchen				
	Salmonella Bardo	1	0.95	0-2.84	
	Salmonella McGillafelt	1	0.95	0-2.84	
C3	Salmonella Newport	1	0.95	0-2.84	
	Salmonella Corvallis	1	0.95	0-2.84	
	Salmonella enteritidis	19	18.10	10.61-25.58	
D	Berta Salmonella	3	2.86	0-6.1	
D	Salmonella venigold	3	2.86	0-6.1	
	Salmonella rostock	1	0.95	0-2.84	
	Nchanga salmonella	1	0.95	0-2.84	
E1	Salmonella nestorf	4	3.81	0.09-7.53	
	Salmonella London	9	8.57	3.13-14.01	
	Salmonella givier	1	0.95	0-2.84	
Total	Ũ	105	100.00		

were identified for 44 of the 105 Salmonella strains; the dominant drug resistance profile was AMP-TET-NAL DOX-STR (8 strains). The Salmonella resistant to five antibiotics accounted for 65.91% (29/44) of the MDR strains, and the most drug-resistant strains were two Salmonella strains detected in 2019; both were resistant to 12 antibiotics (Table 3).

3.3. PFGE and Cluster Analysis. The 105 Salmonella strains were digested with the restriction endonuclease XbaI, and PFGE and cluster analysis were performed for all 105 strains

TABLE 2: Antimicrobial susceptibility of *Salmonella* strains (n = 105) collected from 2018 to 2020 in six sentinel hospitals from Huzhou, Zhejiang, China.

Antimicrobial	Sensitive (n,	Intermediate (n,	Resistant (n,
Antimicrobia	%)	%)	%)
AMP	31 (29.52)	0 (0.00)	74 (70.48)
AMS	41 (39.05)	64 (60.95)	0 (0.00)
TET	29 (27.62)	5 (4.76)	71 (67.62)
CHL	62 (59.05)	10 (9.52)	33 (31.43)
SXT	68 (64.76)	37 (25.34)	0 (0.00)
CFZ	44 (41.90)	61 (58.10)	0 (0.00)
CTX	88 (83.81)	12 (11.43)	5 (4.76)
CAZ	93 (88.57)	12 (11.43)	0 (0.00)
CFX	96 (91.43)	9 (8.57)	0 (0.00)
GEN	89 (84.76)	6 (5.71)	10 (9.52)
IMI	105 (100.0)	0 (0.00)	0 (0.00)
NAL	67 (63.81)	0 (0.00)	38 (36.19)
AZI	103 (98.10)	2 (1.90)	0 (0.00)
Sul	42 (40.00)	33 (31.43)	30 (28.57)
CIP	58 (55.24)	34 (32.38)	13 (12.38)
AMC	64 (60.95)	41 (39.05)	0 (0.00)
CTX/C	99 (94.29)	6 (5.71)	0 (0.00)
CAZ/C	101 (96.19)	4 (3.81)	0 (0.00)
CT	71 (67.62)	11 (10.48)	23 (21.90)
PB	80 (76.19)	13 (12.38)	12 (11.43)
MIN	87 (82.86)	18 (17.14)	0 (0.00)
AN	103 (98.10)	2 (1.90)	0 (0.00)
ATM	99 (94.29)	0 (0.00)	6 (5.71)
FEP	98 (93.33)	2 (1.90)	5 (4.76)
MEM	102 (97.14)	3 (2.86)	0 (0.00)
LEV	32 (45.71)	70 (66.67)	3 (2.86)
DOX	27 (25.71)	9 (8.57)	69 (65.71)
KAN	95 (90.48)	0 (0.00)	10 (9.52)
STR	20 (19.05)	19 (18.09)	66 (62.86)
GMI	63 (60.00)	42 (40.00)	0 (0.00)

(Figure 1). The band pattern similarity was 28.5% to 100.0%. Based on the number and location of bands, there were 93 different PFGE types, with one type containing up to five strains (*Salmonella enteritidis*, isolated in 2020). Fifteen clones had similarities exceeding 85.00%. Different PFGE bands may occur within the same serotype. Each serovar corresponded to a single clade, while a few isolates clustered in other serovar clades. *Salmonella enteritis* and *Salmonella typhimurium* showed clusters were observed.

4. Discussion

Salmonella is an important and widespread zoonotic pathogen that causes food poisoning and infectious diarrhoea [16]. About 70~80% of patients with foodborne diseases in China have Salmonella infection, mainly nontyphoid Salmonella [17, 18]. All Salmonella serotypes can cause potentially life-threatening diseases. Therefore, knowledge of the distribution of Salmonella serotypes in a given area can help prevent Salmonella epidemics. The 105 Salmonella strains isolated by the Huzhou Food-borne Disease Surveillance System from 2018 to 2020 were all nontyphoid Salmonella. Twenty-six serotypes were isolated, among which Salmonella typhimurium was the most

TABLE 3: Drug resistant spectrum of 105 Salmonella strains collected from 2018 to 2020 in six sentinel hospitals from Huzhou, Zhejiang, China.

Antibiotic resistant species	Drug-resistant spectrum	Number of isolates	Proportion (%)
(opecies)	TET_DOX_STR	5	4 76
3	TET-CHL-DOX	1	0.95
5	AMP-TET-DOX	1	0.95
	TFT-Sul-DOX-STR	1	0.95
	TET-CHL-Sul-STR	1	0.95
	NAL-CT-PB-STR	1	0.95
	AMP-NAL-CT-STR	2	1.90
4	AMP-NAL-CT-PB	1	0.95
	AMP-TET-DOX-STR	1	0.95
	AMP-TET-CHL-DOX	4	3.81
	AMP-TET-DOX-STR	3	2.86
	TET-Sul-DOX-STR	1	0.95
	AMP-TET-Sul-DOX-STR	8	7.62
	AMP-NAL-AZM-FEP-KAN	1	0.95
	AMP-NAL-Sul-CT-STR	2	1.90
	TET-CHL-Sul-CIP-DOX	1	0.95
	AMP-TET-NAL-DOX-STR	5	4.76
5	AMP-TET-NAL-Sul-DOX	1	0.95
	AMP-TET-CHL-Sul-DOX	1	0.95
	AMP-TET-CHL-DOX-KAN	1	0.95
	AMP-NAL-CT-PB-STR	5	4.76
	AMP-TET-CHL-DOX-STR	3	2.86
	AMP-TET-NAL-Sul-DOX	1	0.95
	AMP-TET-CHL-Sul-DOX-STR	2	1.90
	AMP-TET-CTX-NAL-Sul-DOX	1	0.95
	AMP-TET-NAL-Sul-DOX-STR	1	0.95
6	AMP-TET-CHL-GEN-DOX-STR	1	0.95
	AMP-TET-CHL-GEN-CIP-DOX	1	0.95
	AMP-TET-CTX-AZM-DOX-STR	1	0.95
	AMP-TET-NAL-CT-DOX-STR	1	0.95
	AMP-TET-CHL-Sul-AZM-FEP-DOX	1	0.95
	AMP-TET-CHL-NAL-Sul-CIP-DOX	1	0.95
	AMP-TET-NAL-CT-PB-DOX-STR	5	4.76
7	AMP-TET-CHL-Sul- DOX-KAN-STR	1	0.95
	AMP-TET-CHL-GEN-Sul-DOX-STR	1	0.95
	AMP-TET-CTX-AZM-FEP-DOX-STR	1	0.95
	AMP-TET-CHL-GEN-CIP-DOX-STR	2	1.90
	AMP-TET-CHL-NAL-Sul-CIP-DOX-STR	2	1.90
8	AMP-TET-CHL-GEN-Sul- DOX-KAN-STR	1	0.95
-	AMP-TET-CHL-GEN-NAL-CIP-DOX-KAN	1	0.95
	AMP-TET-CHL-NAL-CIP-DOX-KAN-STR	1	0.95
9	AMP-TET-CHL-GEN-NAL-CIP-DOX-KAN-STR	1	0.95
10	AMP-TET-CHL-NAL-Sul-CIP-LE V-DOX-KAN-STR	1	0.95
12	AMP-TET-CHL-CTX-GEN-NAL-CIP-AZM-FEP-LEV- DOX-KAN	2	1.90

common, followed by *Salmonella enteritidis*; these are the dominant food-borne *Salmonella* serotypes in many parts of China [19, 20]. With the improvement in living standards, food consumption is becoming increasingly diversified. The food safety hazards caused by *Salmonella* are also increasing. Therefore, continuous *Salmonella* monitoring is necessary.

Bacterial drug resistance has become an important problem. The widespread use of antibiotics in agriculture and the irrational use of antibiotics in clinical practice lead to drug resistance in bacteria, including *Salmonella*. We showed that the drug resistance of *Salmonella* in the Huzhou area was serious; only 7 of the 105 *Salmonella* strains were sensitive to all 30 antibiotics and the remaining 98 strains were resistant to at least 1 antibiotic. Four antibiotics had drug resistance rates of over 50%: AMP (70.48%; 74/105), TET (67.62%; 71/105), DOX (65.71; 69/105), and STR (62.86; 66/105). They found similar to the drug resistance rates of *Salmonella* seen in other cities [12, 21, 22] The drug resistance rate to NAL in this study (36.19%) was different from that of Zhang et al. [22] (66.67%), which may be related to the difference in clinical medication in

40 60 80 100		Key	Year	District	Serotype	Drug resistance
		HuZ18-0082	2018	Changxing	Salmonella London	AMP TET CHL NAL Sul CIP DOX STR
514		HuZ18-0117	2018	Changxing	Salmonella London	AMP-TET-NAL-Sul-DOX
42.6 89.7		HuZ19-0051	2019	Changxing	Saimonella bardo Salmonella munchan	AMP-STR STR
		HuZ19-0008 HuZ19-0100	2019	Deging	Salmonella nestorf	All sensitive
44		HuZ18-0084	2018	Changxing	Salmonella Thompson	AMP-TET-CHL-NAL-Sul-CIP-LEV-DOX-KAN-STR
[™]	1 1111111	HuZ20-0043	2020	Changxing	Salmonella Tennessee	STR
0.5	1 10111111	HuZ19-0099	2019	Deqing	Salmonella infantile	TET-STR
⊌ Γ−−−		HuZ20-0040	2020	First hospital	Salmonella vilshaw	AMP-TET-CHL-DOX-STR
		HuZ19-0102	2019	Changxing	Salmonella Thompson	All sensitive
"		HuZ19-0018	2019	Changxing	Salmonella tumody	AMP-TET-CIX-NAL-Sul-DOX AMP TET CHI GEN NAL CIP DOX KAN STP
		HuZ18-0086	2018	Changxing	Salmonella typhimurium	TET-CHL-Sul-CIP-DOX
96.3		HuZ19-0103	2010	Anii	Salmonella typhimurium	AMP-CHL
P1 1		HuZ20-0041	2020	Changxing	Salmonella typhimurium	AMP-TET-CHL-DOX
" _" 1		HuZ20-0048	2020	Changxing	Salmonella typhimurium	AMP-TET-CHL-DOX
\$4		HuZ19-0017	2019	Changxing	Salmonella typhimurium	AMP-TET-CHL-Sul-DOX
84.94 <u>6</u> -		HuZ19-0078	2019	Deqing	Salmonella typhimurium	AMP-TET-CHL-DOX
79.5		HuZ19-0049	2019	Changxing	Salmonella typhimurium	AMP-TET-CHL-DOX-STR
		HuZ18-0073 HuZ19-0085	2018	Nanxun	Salmonella typhimurium	AMP-TET-CHL-DOX-STR
		HuZ18-0113	2018	Changxing	Salmonella typhimurium	AMP-TET-Sul-DOX-STR
64.0		HuZ20-0045	2020	Changxing	Salmonella typhimurium	AMP-TET-DOX-STR
		HuZ18-0072	2018	Changxing	Salmonella Stanley	AMP-TET-CHL-NAL-Sul-CIP-DOX-STR
		HuZ18-0077	2018	Changxing	Salmonella Stanley	AMP-TET-CHL-Sul-DOX-STR
84.1 96.0		HuZ18-0080	2018	Changxing	Salmonella typhimurium	TET-Sul-DOX-STR
		HuZ18-0069	2018	First hospital	Salmonella typhimurium	AMP-TET-Sul-DOX-STR
		HuZ19-0078 HuZ18-0088	2019	Changxing	Salmonella typhimurium	AMP-TET-Sul-DOX-STR
		HuZ20-0055	2020	Anji	Salmonella typhimurium	TET-DOX-STR
		HuZ19-0050	2019	Changxing	Salmonella typhimurium	AMP-TET-CTX-AZM-FEP-DOX-STR
30 E		HuZ19-0104	2019	Anji	Salmonella Derby	AMP-TET-CTX-AZM-DOX-STR
776 020		HuZ19-0020	2019	Changxing	Salmonella typhimurium	AMP-TET-CHL-Sul-DOX-KAN-STR
		HuZ19-0044	2019	Changxing	Salmonella typhimurium	AMP-TET-CHL-GEN-Sul-DOX-KAN-STR
90.9		HuZ19-0016	2019	Changxing	Salmonella typhimurium	AMP-1E1-Sul-DOX-STR TET DOX STR
745 80.2		HuZ20-0061	2020	Auji First hospital	Salmonella typhimurium	AMP-TET-DOX-STR
		HuZ20-0046	2020	Changxing	Salmonella typhimurium	AMP-TET-DOX-STR
		HuZ19-0079	2019	Deqing	Salmonella typhimurium	AMP-TET-DOX
73.6 ma		HuZ18-0078	2018	Anji	Salmonella typhimurium	AMP-TET-Sul-DOX-STR
		HuZ19-0019	2019	Changxing	Salmonella typhimurium	AMP-TET-Sul-DOX-STR
		HuZ19-0064	2019	Nanxun	Salmonella typhimurium	AMP-TET -CHL-CTX-GEN-NAL-CIP-AZM-FEP-LEV-DOX-KAN
80 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		HuZ18-0067	2018	Deqing	Salmonella typhimurium	AMP-TET-Sul-DOX-STR
		HuZ18-0081	2018	Wuxing	Salmonella typhimurium	Sul
		HuZ18-0070	2018	First hospital	Salmonella typhimurium Salmonella typhimurium	AMP TET DOX
		HuZ20-0053	2019	First hospital	Salmonella typhimurium	AMP-TET-CHL-NAL-CIP-DOX-KAN-STR
·2	1 11111	HuZ19-0048	2019	Changxing	Salmonella Tennessee	AMP-STR
373		HuZ20-0062	2020	Changxing	Salmonella Tennessee	AMP-TET -DOX-STR
		HuZ18-0068	2018	Changxing	Salmonella Thompson	All sensitive
		HuZ19-0056	2019	Wuxing	Salmonellae leeson	TET-DOX-STR
		LIN210 0110	///// 2	A		
	10 11 10 111	IIuz18-0119	2010	Chananian	Saimoneila deipy	Sul
		HuZ20-0044 HuZ18-0075	2018 2020 2018	Changxing Changxing	Salmonella typhimurium Salmonella typhimurium	Sul AMP-TET-NAL-DOX-STR Sul
		HuZ20-0044 HuZ18-0075 HuZ18-0112	2018 2020 2018 2018	Changxing Changxing Changxing	Salmonella deipy Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium	Sul AMP-TET-NAL-DOX-STR Sul AMP-TET-NAL-DOX-STR
		HuZ20-0044 HuZ18-0075 HuZ18-0112 HuZ18-0116	2018 2020 2018 2018 2018	Changxing Changxing Changxing Changxing	Salmonella deipy Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium	Sal AMP-TET-NAL-DOX-STR Sal AMP-TET-NAL-DOX-STR AMP-TET-NAL-DOX-STR
		HuZ20-0044 HuZ18-0075 HuZ18-0112 HuZ18-0116 HuZ18-0076	2018 2020 2018 2018 2018 2018	Changxing Changxing Changxing Changxing Changxing	Salmonella deipy Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium	Sul AMF-TET-NAL-DOX-STR Sul AMF-TET-NAL-DOX-STR AMF-TET-NAL-DOX-STR NAL
		HuZ20-0044 HuZ18-0075 HuZ18-0112 HuZ18-0116 HuZ18-0076 HuZ19-0077	2018 2020 2018 2018 2018 2018 2019	Changxing Changxing Changxing Changxing Changxing Deqing	Salmonella depy Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella McGillafelt	Sul AMP-TET-NAL-DOX-STR Sul AMP-TET-NAL-DOX-STR AMP-TET-NAL-DOX-STR NAL AMP-TET-CHL-CTX-GEN-NAL-CIP-AZM-FEP-LEV-DOX-KAN
		HuZ18-0119 HuZ20-0044 HuZ18-0075 HuZ18-0112 HuZ18-0116 HuZ18-0076 HuZ19-0077 HuZ19-0060	2018 2020 2018 2018 2018 2018 2018 2019 2019	Changxing Changxing Changxing Changxing Changxing Deqing Anji	Saimonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella McGillafelt Salmonella entertitiis	Sul AMF-TET-NAL-DOX-STR Sul AMF-TET-NAL-DOX-STR AMF-TET-NAL-DOX-STR NAL AMF-TET-CHL-CTX-GEN-NAL-CIP-AZM-FEP-LEV-DOX-KAN STR
		HuZ18-0119 HuZ18-0075 HuZ18-0075 HuZ18-0112 HuZ18-0116 HuZ18-0076 HuZ19-0077 HuZ19-0060 HuZ19-0098 HuZ19-0098	2018 2020 2018 2018 2018 2018 2019 2019 2019 2019	Changxing Changxing Changxing Changxing Changxing Deqing Anji Deqing Dusing	Saimonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella McGillafelt Salmonella mbandaLC Selmonella interitidis	Sul AMF-TET-NAL-DOX-STR Sul AMF-TET-NAL-DOX-STR AMF-TET-NAL-DOX-STR NAL AMF-TET-CHL-CTX-GEN-NAL-CIP-AZM-FEF-LEV-DOX-KAN STR TET-DOX-STR TET-DOX-STR
		HuZ18-0119 HuZ18-0075 HuZ18-0075 HuZ18-0112 HuZ18-0116 HuZ19-0076 HuZ19-0070 HuZ19-0098 HuZ20-0049 HuZ18-0114	2018 2020 2018 2018 2018 2018 2019 2019 2019 2019 2020 2018	Changxing Changxing Changxing Changxing Changxing Deqing Anji Deqing Deqing Anji	Saimonelia deipy Saimonelia typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella McGillafelt Salmonella entertitäis Salmonella mbandaLC Salmonella indiana	Sul AMP-TET-NAL-DOX-STR Sul AMP-TET-NAL-DOX-STR AMP-TET-NAL-DOX-STR AMP-TET-CHL-CTX-GEN-NAL-CIP-AZM-FEP-LEV-DOX-KAN STR TET-DOX-STR TET-DOX All unsufitue
		HuZ18-0014 HuZ18-0075 HuZ18-0075 HuZ18-0112 HuZ18-0116 HuZ18-0076 HuZ19-0077 HuZ19-0060 HuZ19-0098 HuZ20-0049 HuZ18-0114 HuZ18-0115	2018 2020 2018 2018 2018 2019 2019 2019 2019 2020 2018 2018	Anji Changxing Changxing Changxing Changxing Changxing Deqing Anji Deqing Deqing Anji Anji Anji	Saimoneila depy Saimoneila typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella Mccillafelt Salmonella Mccillafelt Salmonella MandaLC Salmonella bendenlope Salmonella bendenlope	Sul AMF-TET-NAI-DOX-STR Sul AMF-TET-NAI-DOX-STR AMF-TET-INAI-DOX-STR NAL AMF-TET-CHL-CTX-GEN-NAI-CIP-AZM-FEP-LEV-DOX-KAN STR TET-DOX-STR TET-DOX All sensitive All sensitive
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		HuZ20-0044 HuZ20-0044 HuZ18-0075 HuZ18-0112 HuZ18-0116 HuZ18-0076 HuZ19-0069 HuZ19-0098 HuZ20-0049 HuZ20-0049 HuZ20-0049 HuZ28-0114 HuZ18-0118 HuZ19-0086	2018 2020 2018 2018 2018 2019 2019 2019 2019 2019 2020 2018 2018 2018 2018 2018	Anji Changxing Changxing Changxing Changxing Deqing Deqing Deqing Deqing Anji Anji Changxing Deqing Deqing	Samoneia depy Samoneia depy Salmoneila typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella McGilafelt Salmonella mendela i Salmonella brendenlope Salmonella brendenlope Salmonella brendenlope Salmonella brendenlope	Sul AMP-TET-NAL-DOX-STR AMP-TET-NAL-DOX-STR AMP-TET-NAL-DOX-STR AMP-TET-CHL-CTX-GEN-NAL-CIP-AZM-FEP-LEV-DOX-KAN STR TET-DOX-STR TET-DOX STR TET-DOX All sensitive All sensitive AMP-TET-CHL-NAL-Sul-CIP-DOX CHL-STR
		HuZ20-0044 HuZ20-0044 HuZ18-012 HuZ18-0112 HuZ18-0116 HuZ18-0076 HuZ19-0077 HuZ19-0060 HuZ19-0098 HuZ20-0049 HuZ20-0049 HuZ28-0114 HuZ18-0115 HuZ18-0118 HuZ19-0086 HuZ29-00101	2018 2020 2018 2018 2018 2019 2019 2019 2020 2018 2018 2018 2018 2019 2019	Anji Changxing Changxing Changxing Changxing Deqing Deqing Deqing Deqing Anji Changxing Deqing Deqing Deqing Deqing Deqing Deqing	Saimoneila depy Saimoneila typhimurium Salmoneila typhimurium Salmoneila typhimurium Salmoneila typhimurium Salmoneila kociliafeht Salmoneila enteritidis Salmoneila enteritidis Salmoneila enteritidis Salmoneila bendenlope Salmoneila brendenlope Salmoneila munchen Salmoneila neunchen Salmoneila neunchen Salmoneila neunchen	Sul AMP-TET-NAL-DOX-STR AMP-TET-NAL-DOX-STR AMP-TET-NAL-DOX-STR AMP-TET-CHL-CTX-GEN-NAL-CIP-AZM-FEP-LEV-DOX-KAN STR TET-DOX All sensitive All sensitive All sensitive AMP-TET-CHL-NAL-Sul-CIP-DOX CHL-STR TET-DOX
		Huz210-0044 Huz218-0075 Huz18-0075 Huz18-0116 Huz18-0116 Huz18-0116 Huz19-0077 Huz19-0060 Huz19-0098 Huz220-0049 Huz28-0114 Huz18-0114 Huz18-0118 Huz19-0018 Huz19-0101 Huz19-0101	2018 2020 2018 2018 2018 2019 2019 2019 2020 2018 2018 2018 2018 2018 2019 2019 2019	Anji Changxing Changxing Changxing Changxing Deqing Deqing Deqing Deqing Anji Anji Anji Changxing Deqing Deqing Deqing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxing Changxi	Saimonella depy Saimonella depy Saimonella typhimurium Saimonella typhimurium Saimonella typhimurium Saimonella typhimurium Saimonella McGillafett Saimonella imbandaLC Saimonella imbandaLC Saimonella imbandaLC Saimonella imbandaLC Saimonella imbandaLC Saimonella immechen Saimonella Vevport Saimonella Vevport Saimonella Vevport Saimonella Avevport	Sul AMF-TET-NAL-DOX-STR AMF-TET-NAL-DOX-STR AMF-TET-NAL-DOX-STR AMF-TET-CHL-CX-GEN-NAL-CIP-AZM-FEP-LEV-DOX-KAN STR TET-DOX-STR TET-DOX All sensitive All sensitive All sensitive All sensitive AMF-TET-CHL-NAL-Sul-CIP-DOX CHL-STR TET-DOX AMF-TET-CHL-NAL-Sul-CIP-DOX CHL-STR TET-DOX
		Huz210-0044 Huz218-0075 Huz18-0075 Huz18-0116 Huz18-0116 Huz19-0076 Huz19-0076 Huz19-0076 Huz19-0078 Huz20-0049 Huz18-0118 Huz19-0088 Huz219-0088 Huz19-0101 Huz19-0012 Huz19-0012	2018 2020 2018 2018 2018 2019 2019 2019 2020 2018 2018 2018 2018 2019 2019 2019 2019	Anji Changxing Changxing Changxing Changxing Deqing Anji Deqing Deqing Anji Changxing Deqing Deqing First hospital Changxing	Salmonella depy Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella typhimurium Salmonella McGillafelt Salmonella mkndaLC Salmonella indiana Salmonella indiana Salmonella indiana Salmonella indiana Salmonella indenelope Salmonella indenelope Salmonella inversion Salmonella inversion Salmonella corvallis Salmonella corvallis Salmonella corta	Sul AMP-TET-NAL-DOX-STR AMP-TET-NAL-DOX-STR AMP-TET-NAL-DOX-STR AMP-TET-CHL-CTX-GEN-NAL-CIP-AZM-FEP-LEV-DOX-KAN STR TET-DOX-STR TET-DOX-STR TET-DOX All sensitive AMP-TET-CHL-NAL-Sul-CIP-DOX CHL-STR TET-DOX AMP-TET-CHL-DOX AMP-TET-CHL-DOX AMP-TET-CHL-DOX-KAN All sensitive
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FIGURE 1: PFGE cluster analysis of 105 Salmonella strains collected from 2018 to 2020 in six sentinel hospitals from Huzhou, Zhejiang, China.

different regions. The drug resistance rate to cephalosporins was low, consistent with other reports [23].

The multidrug resistance of *Salmonella* is becoming increasingly serious. Of the 105 *Salmonella* strains, 80 were MDR strains. They were highly resistant to AMP and TET; 29 were resistant to six or more antibiotics, and one was resistant to 12 antibiotics. These MDR data are consistent with domestic reports [19]. Drug resistance monitoring of *Salmonella* helps elucidate temporal changes in drug resistance and can guide clinical use. Supervision of food production and processing should also be enhanced to prevent the spread of MDR strains.

PFGE analyzes the relationships among strains at the molecular level and can monitor, trace, and identify strains [24]. It is considered the "gold standard" for bacterial molecular typing because of its high repeatability and reliability. Using PFGE, a *Salmonella* database can be established to trace the source of foodborne disease outbreaks quickly, prevent the spread of disease and clarify the genetic relationships among *Salmonella* from different regions and years, and assess the epidemiological characteristics of *Salmonella*. This study shows that the patterns of *S. enteritis* and *S. enterica typhimurium* showed two clusters. The molecular types of *Salmonella typhimurium* were mainly clustered in the upper half of Figure 1, while *Salmonella enteritidis* was mainly clustered in the lower half, consistent with Zhang et al. [22].

Other *Salmonella* types, such as *Salmonella* Zvenigorod, were also clustered, although not in large numbers. These clusters exist across regions and years, posing challenges to the prevention of foodborne outbreaks.

While the molecular types of different strains of the same serotype are similar, they are not completely consistent, which may be due to the horizontal transfer of antigendetermining genes between strains with distant genetic relationships; although the serotype is the same, there are obvious genetic differences [25]. We also found that the antibiotic resistance of strains with similar molecular types was highly comparable, such as HUZ20-56-60 and other strains. In some cases, the drug resistance spectrum can be determined by the molecular type.

5. Conclusions

This study analyzed the characteristics of *Salmonella enteritis* strains in diarrhoea samples from patients in Huzhou, Zhejiang. Different serotypes were detected in the clinical isolates. Drug resistance in *Salmonella typhimurium* was serious in Huzhou and multidrug-resistant strains were common. It is necessary to pay close attention to the emergence of antimicrobial-resistant strains and enhance antimicrobial management. The data in this study will be useful for controlling and treating food-borne illnesses caused by *Salmonella enterica* in Huzhou, Zhejiang.

Data Availability

Data supporting the results of our study can be found in our manuscript.

Ethical Approval

Institutional review board approval was not required; the only human materials used were stool samples collected from patients.

Consent

Patient consent was not required as samples were tested using routine laboratory protocols and patient demographic information was not included in the analysis.

Conflicts of Interest

The authors declare that they have no conflicts of interest.

Authors' Contributions

Deshun Xu and Lei Ji contributed equally to this work.

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