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A Survey on *Clonorchis sinensis* Metacercariae from Fresh-water Fishes in Four Rivers at Jeonbuk Province in Korea

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= ABSTRACT =

To investigate which fresh-water fishes were infected with *Clonorchis sinensis* metacercariae, 13 species of the fishes in the Kum River, the Mangyong River, the Tongjin River, and the Sumjin River were surveyed from July to October 2001. The metacercariae of *C. sinensis* were found in *Squalidus japonicus coreanus* in the Kum River and the Mangyong River, *Pseudorasbora parva* in the Kum River, and *Pungtungia herzi* in the Sumjin River. The average number of the metacercariae in 1 gram of fish body weight was 12 in *Squalidus japonicus coreanus*, 26 in *Pseudorasbora parva* in the Kum River, 4 in *Squalidus japonicus coreanus* in the Mangyong River, and 7 in *Pungtungia herzi* in the Sumjin River. The *C. sinensis* egg-positive rates among the residents at the Sumjin River basin in 1999 and 2000 were 8.9% and 6.8%, respectively. In conclusion, *C. sinensis* infection was endemic in the above riverside areas.

KEY WORDS: *Clonorchis sinensis*, Metacercariae, Fresh-water fish

2 4

Kobayashi(1914) 가 (g) (g) ,
2 (pepsin-HCl) 37 2
(1mm
× 1mm mesh)

가
(, 1978; Joo, 1988; Shin
, 1993).
(1983; 1984)

가
(Chyu , 1993; Han , 1994;
Rim , 1994).

가

1
1

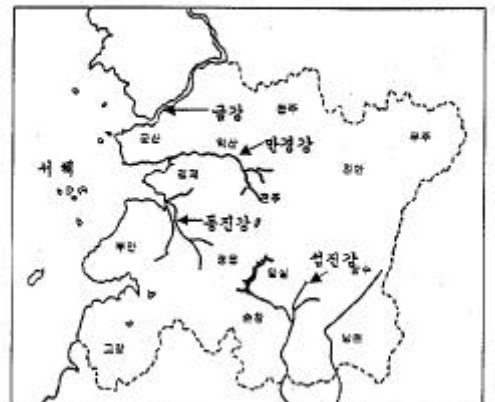
lg

가

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그림 1. 전북지역 4대강 유역의 지도



4

4 (1), 2001

7 10

313 , 2000 310 1999 2000 9.8%, 4.2%
 (1997)
 formalin- ether (p>0.05).

2-

(1983)

13 , 97%. 85%, 67%,
 50%, 47%, 44%, 40%,
 308 33%, 32%, 26%,
 1.82g 260 7%, 3%
 1g 1
 12 1.82
 1 6.6
 145 1.73g
 1g 26 1
 15.0

. 48 1g 4 ,
 1 2.2 . 가
 가
 1g 1
 (1983) 가

. 26 0.98g
 . 1g 7 , 1 . 33%가
 7.1 (1).
 2

1999 가 1g 4
 8.9%, 2000 6.8% 가
 (1984)
 (P>0.05). 1999 가
 13.9%, 4.7% 1g 4.44, 1.2,
 (p<0.05). 0.76, 0.4, 0.17 .

1. 4

		(g)	lg			
			(1)			
<i>Pungtungia herzi</i>	26	0.98	—	—	×	7 (7.1)
<i>Squalidus japonicus coreanus</i>	308	1.82	12 (6.6)	4 (2.2)	×	×
<i>Misgurnus anguillicaudatus</i>	3	6.23	—	×	×	×
<i>Rhynchocypris oxycephalus</i>	3	1.45	—	—	×	—
<i>Carassius auratus</i>	4	36.4	×	×	×	—
<i>Rhodeus uyekii</i>	2	7.2	—	—	×	—
<i>Hemibarbus labeo</i>	1	1.75	—	—	×	—
<i>Silurus asotus</i>	2	12.6	—	×	—	×
<i>Acheilognathus lanceolatus</i>	3	11.6	—	×	—	×
<i>Acheilognathus rhombeus</i>	276	1.49	×	×	—	×
<i>Cyprinus carpio</i>	1	32.6	×	—	—	—
<i>Pseudorasbora parva</i>	145	1.73	26 (15.0)	—	—	—
<i>Pseudogobio esocinus</i>	5	0.96	—	×	—	—

× :
— : 가 .

2.

							(%)
1999	144	169	313	20(13.9)*	8(4.7)	28(8.9)	
2000	143	167	310	14(9.8)	7(4.2)	21(6.8)	

* p<0.05.

7-9%

0.98g 1g 7.1 (1997)

, 가 , 가 가

2001 7 10 4 -

가

1g 12 , 26 가 4 가

(1997) 1997 46.6% (2000) 1998 19.0% , 1

8.9%, 2000 6.8% 4 , , 1999

(1999)

35.8% 10.9% 2 15.8%

1. , , , , . 1999; 24(2): 225-232

2. , , , , , , .

10%

2000;

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