

**Supplementary Table 1. The prevalence of human clonorchiasis, according to a range of local surveys in China, after the last national survey in 2003.**

Province/city	Population Examined	infection	Prevalence % (mean)	Detection method	Years	Males examined	Males infected	Males infected %	Females examined	Females infected	Females infected %
Anhui <sup>1</sup>	720	3	0.42	Kato-katz	2008	360	2	0.56	360	1	0.28
Chongqing <sup>2</sup>	2059	4	0.19	Kato-katz	2009						
Guangdong <sup>3-45</sup>	179756	15435	0.12-60.70(8.59)	Kato-katz or ELISA	2004-2012	76222	8179	10.73	65085	5029	7.73
Guangxi <sup>46-58</sup>	144073	14234	1.19-56.58(9.88)	FECT, Kato-katz, ultrasound	2005-2014	33353	6976	20.92 <sup>b</sup>	21083	1511	7.17 <sup>b</sup>
Heilongjiang <sup>59,60</sup>	4177	518	0.28-21.75 <sup>a</sup> (12.40)	Kato-katz	2009-2012	3440	1157	33.63 <sup>b</sup>	1278	310	24.26 <sup>b</sup>
Hunan <sup>61-63,c</sup>	9313	3195	0.6-91.32(34.31)	Kato-katz	2006-2012	4134	1491	36.07	4099	1391	33.94
Jilin <sup>64-68,c</sup>	10694	1979	0.08-78.80(18.51)	FECT, Kato-katz	2006-2011	5532	1298	23.46 <sup>b</sup>	5162	675	13.08 <sup>b</sup>
Jiangsu <sup>69-71</sup>	10113	81	0.10-1.77(0.80)	Kato-katz	2005-2011	368	1	0.27	414	0	0
Liaoning <sup>72-74</sup>	3972	123	0.46-17.6(3.10)	Kato-katz	2007-2011	1072	64	5.97	983	50	5.09
Shandong <sup>75,76</sup>	11580	10	0.06-0.37(0.08)	Kato-katz	2005-2009	1059	9	0.85	1092	1	0.09
Shanghai <sup>77</sup>	31239	0	0	Kato-katz	2005-2010						
Sichuan <sup>78</sup>	4016	4	0.1	Kato-katz	2005-2006						
Zhejiang <sup>79</sup>	821	19	0-6.32(2.31)	ELISA	2010						

<sup>a</sup>40.44% of 2359 patients were positive with *C. sinensis* infection by ELISA detection in contrast to 21.75% by Kato-katz methods.

<sup>b</sup>Significantly higher infection rates were found in males than in females.

<sup>c</sup>Endemic area data only in Hunan and Jilin provinces.

FECT: formalin ether concentration technique.

**Supplementary Table 2: Prevalence of *Clonorchis sinensis* in various species of animal in China during the last decade.**

Host type	Province/City	Species	Sample size	Positive	Prevalence%(mean)	Years	Detection Methods <sup>a</sup>
1 <sup>st</sup> intermediate host	Guangdong	<i>Alocinma longicornis</i> <sup>80-82</sup>	865	14	0.88-8.24(1.62)	2002-2008	Microscopy and qPCR
		<i>Bithynia fuchsianus</i> <sup>80</sup>	97	12	12.37	2006-2008	qPCR
		<i>Parafossarulus sinensis</i> <sup>80</sup>	110	13	11.82	2006-2008	qPCR
		<i>Parafossarulus striatulus</i> <sup>80-82</sup>	22352	104	0.28-20.10(0.47)	2002-2009	Microscopy and qPCR
	Hunan	<i>A. longicornis</i> <sup>83</sup>	27	2	7.41	2006-2009	Microscopy
		<i>P. striatulus</i> <sup>83</sup>	167	29	17.37	2006-2009	Microscopy
	Jiangsu	<i>A. longicornis</i> <sup>84</sup>	572	2	0.35	2006	Microscopy
		<i>P. striatulus</i> <sup>84</sup>	435	8	1.84	2006	Microscopy
	Liaoning	<i>P. striatulus</i> <sup>74</sup>	413	22	5.33	2007	Microscopy
	2 <sup>nd</sup> intermediate host	Anhui	<i>Carassius auratus</i> <sup>85</sup>	77	5	6.50	2003
<i>Criihina molitorella</i> <sup>85</sup>			39	1	2.60	2003	Microscopy
<i>Cyprinus carpio</i> <sup>85</sup>			65	4	6.20	2003	Microscopy
<i>Hypophthalmichthys molitrix</i> <sup>85</sup>			57	3	5.30	2003	Microscopy
<i>Parabramis pekinensis</i> <sup>85</sup>			26	0	0.00	2003	Microscopy
<i>Pseudorasbora parva</i> <sup>85</sup>			183	58	31.70	2003	Microscopy
Guangdong		<i>C. auratus</i> <sup>6,33,86,87</sup>	47	5	0-12(10.64)	2007-2012	Microscopy
		<i>Channa argus</i> <sup>80,86,88</sup>	104	15	0-16.60(14.42)	2005-2008	Microscopy and qPCR
		<i>Clarias fuscus</i> <sup>86,89</sup>	15	3	0-16.60(14.42)	2005-2008	Microscopy and qPCR
		<i>C. molitorella</i> <sup>6,33,80,86-88,90,91</sup>	541	170	0-52.10(31.42)	2005-2012	Microscopy and qPCR
		<i>Ctenopharyngodon idellus</i> <sup>6,33,80-82,86-93</sup>	1683	475	5.0-100(21.19)	2002-2012	Microscopy and qPCR
		<i>C. carpio</i> <sup>80,86,88,89</sup>	298	58	7.69-22.58(19.46)	2005-2009	Microscopy and qPCR
		<i>Fishes</i> <sup>94</sup>	25	4	16.00	2006	Microscopy
		<i>Hemiculter leucisculus</i> <sup>90</sup>	341	89	26.10	2006	Microscopy
		<i>H. molitrix</i> <sup>81,82,86,87</sup>	675	29	0-7.14(4.30)	2002-2008	Microscopy
		<i>Hypophthalmichthys nobilis</i> <sup>6,33,80,86-88,90,91</sup>	639	62	1.67-23.40(9.70)	2005-1012	Microscopy and qPCR
		<i>Micropterus salmoides</i> <sup>86</sup>	1	0	0.00	2007-2008	Microscopy
		<i>Monopterus albus</i> <sup>89</sup>	119	17	14.29	2008-2009	Microscopy
		<i>P. pekinensis</i> <sup>89</sup>	27	0	0.00	2008-2009	Microscopy
		<i>Parasilurus asotus</i> <sup>86,89</sup>	55	0	0.00	2007-2009	Microscopy
<i>P. parva</i> <sup>81,82,89,90</sup>	864	583	55.56-84.30(67.48)	2002-2009	Microscopy		
<i>Rhodeus sinensis</i> <sup>81,82</sup>	658	113	9.58-25.00(17.17)	2002-2007	Microscopy		

	<i>Shrimps</i> <sup>5,90,92,94</sup>	415	11	0-7.70(2.65)	2006-2012	Microscopy
	<i>Siniperca chuatsi</i> <sup>86</sup>	22	0	0.00	2007-2008	Microscopy
	<i>Spinibarbas yunnanensis</i> <sup>33</sup>	-	-	0.00	2007-2012	Microscopy
	<i>Tilapia mossambica</i> <sup>33,80,86-88,90,91,93</sup>	488	49	0-19.60(10.04)	2003-2012	Microscopy and qPCR
Guangxi	<i>C. auratus</i> <sup>95</sup>	1103	91	8.25	2008-2009	Microscopy
	<i>C. fuscus</i> <sup>95</sup>	67	4	5.97	2008-2009	Microscopy
	<i>Cranoglanis boudierus</i> <sup>95</sup>	71	0	0.00	2008-2009	Microscopy
	<i>C. molitorella</i> <sup>95</sup>	197	17	8.62	2008-2009	Microscopy
	<i>C. idellus</i> <sup>95</sup>	1352	172	12.72	2008-2009	Microscopy
	<i>C. carpio</i> <sup>95</sup>	981	79	8.05	2008-2009	Microscopy
	<i>Erythroculter hypselonotus</i> <sup>95</sup>	883	91	10.30	2008-2009	Microscopy
	<i>E. ilishaeformis</i> <sup>95</sup>	156	11	7.05	2008-2009	Microscopy
	<i>Gnathopogon argentatus</i> <sup>95</sup>	109	9	8.25	2008-2009	Microscopy
	<i>H. leucisculus</i> <sup>95,96</sup>	1766	283	11.25-17.70(16.02)	2006-2009	Microscopy
	<i>H. molitrix</i> <sup>95</sup>	563	60	10.65	2008-2009	Microscopy
	<i>H. nobilis</i> <sup>95</sup>	634	53	8.35	2008-2009	Microscopy
	<i>Longnose gudgeon</i> <sup>96</sup>	427	17	3.90	2006	Microscopy
	<i>Megalobrama skolkovii</i> <sup>95</sup>	57	3	5.26	2008-2009	Microscopy
	<i>Misgurnus anguillicaudatus</i> <sup>95</sup>	200	9	4.50	2008-2009	Microscopy
	<i>M. albus</i> <sup>95</sup>	200	5	2.50	2008-2009	Microscopy
	<i>Mystus guttatus</i> <sup>95</sup>	62	0	0.00	2008-2009	Microscopy
	<i>Onychosotoma gerlachi</i> <sup>95</sup>	93	7	7.52	2008-2009	Microscopy
	<i>Opsariichthys bidens</i> <sup>95</sup>	52	3	5.77	2008-2009	Microscopy
	<i>P. pekinensis</i> <sup>95</sup>	67	5	7.46	2008-2009	Microscopy
	<i>Pelteobagrus fulvidraco</i> <sup>95</sup>	279	3	1.07	2008-2009	Microscopy
	<i>Pseudohemiculter dispar</i> <sup>95</sup>	1207	195	16.15	2008-2009	Microscopy
	<i>Pseudolaubuca sinensis</i> <sup>95,96</sup>	1569	138	5.90-9.65(8.80)	2006-2009	Microscopy
	<i>P. parva</i> <sup>95</sup>	703	151	21.47	2008-2009	Microscopy
	<i>Ptychidio jordani</i> <sup>95</sup>	72	3	4.16	2008-2009	Microscopy
	<i>Saurogobio dabryi</i> <sup>95</sup>	1307	77	5.90	2008-2009	Microscopy
	<i>Sinilabeo decorus</i> <sup>95</sup>	73	5	6.85	2008-2009	Microscopy
	<i>Siniperca kneri</i> <sup>95</sup>	81	3	2.44	2008-2009	Microscopy
	<i>Siniperca scherzeri</i> <sup>95</sup>	117	3	2.56	2008-2009	Microscopy
	<i>Siniperca whiteheadi</i> <sup>95</sup>	60	0	0.00	2008-2009	Microscopy

	<i>Spualio barbatus Curriculus</i> <sup>95</sup>	783	92	11.74	2008-2009	Microscopy
	<i>T. mossambica</i> <sup>95</sup>	525	33	6.28	2008-2009	Microscopy
	<i>Xenocypris argentea</i> <sup>95</sup>	341	17	4.99	2008-2009	Microscopy
	<i>Xenocypris davidi</i> <sup>95</sup>	510	23	4.50	2008-2009	Microscopy
	<i>Zacco platypus</i> <sup>95</sup>	732	130	17.75	2008-2009	Microscopy
Heilongjiang	<i>C. auratus</i> <sup>97</sup>	68	25	36.76	2012	Microscopy
	<i>C. carpio</i> <sup>97</sup>	12	1	8.33	2012	Microscopy
	<i>M. anguillicaudatus</i> <sup>97</sup>	89	2	2.25	2012	Microscopy
	<i>P. asotus</i> <sup>97</sup>	21	0	0.00	2012	Microscopy
	<i>P. parva</i> <sup>97</sup>	181	72	39.78	2012	Microscopy
Hubei	<i>Fishes</i> <sup>98</sup>	1502	131	8.72	1985-2006	Microscopy
Hunan	<i>C. auratus</i> <sup>83,99</sup>	138	22	2.3-69.2(15.94)	2002-2006	Microscopy
	<i>C. idellus</i> <sup>83,99</sup>	56	3	0-9.38(5.36)	2005-2009	Microscopy
	<i>C. carpio</i> <sup>83,99</sup>	57	4	5.30-7.89(7.02)	2002-2009	Microscopy
	<i>H. molitrix</i> <sup>99</sup>	42	2	4.76	2002-2005	Microscopy
	<i>H. nobilis</i> <sup>99</sup>	36	3	8.33	2002-2005	Microscopy
	<i>P. pekinensis</i> <sup>99</sup>	45	5	11.11	2002-2005	Microscopy
Jiangsu	<i>Abbottina rivularis</i> <sup>84</sup>	125	8	6.40	2006	Microscopy
	<i>C. auratus</i> <sup>100</sup>	36	4	11.10	2004	Microscopy
	<i>C. idellus</i> <sup>84</sup>	62	0	0.00	2006	Microscopy
	<i>C. carpio</i> <sup>84</sup>	15	0	0.00	2006	Microscopy
	<i>Hemiculterella sauvagei</i> <sup>100</sup>	31	1	3.20	2004	Microscopy
	<i>H. molitrix</i> <sup>84</sup>	18	0	0.00	2006	Microscopy
	<i>M. anguillicaudatus</i> <sup>100</sup>	50	2	4.00	2004	Microscopy
	<i>P. pekinensis</i> <sup>100</sup>	30	2	6.70	2004	Microscopy
	<i>Procambarus clarkii</i> <sup>100</sup>	50	1	2.00	2004	Microscopy
	<i>P. parva</i> <sup>84,100</sup>	353	208	72.10-57.10(58.92)	2004-2006	Microscopy
	<i>R. sinensis</i> <sup>100</sup>	58	11	19.00	2004	Microscopy
Liaoning	<i>A. rivularis</i> <sup>101,102</sup>	580	532	88.30-95.80(91.72)	2004-2009	Microscopy
	<i>Canthorhodeus chankaensis</i> <sup>101,102</sup>	160	2	1.25	2004-2009	Microscopy
	<i>C. auratus</i> <sup>74,103,104</sup>	962	79	0-44.90(8.21)	2007-2011	Microscopy
	<i>C. idellus</i> <sup>74,103,104</sup>	75	9	10-28.57(12)	2007-2011	Microscopy
	<i>C. carpio</i> <sup>73,74,101-104</sup>	159	16	0-25.47(10.06)*	2004-2011	Microscopy
	<i>Erythroculter ilishae formis</i> <sup>103</sup>	93	57	61.59	2009	Microscopy

	<i>Gobio macrocephalus</i> <sup>74</sup>	119	9	7.56	2007	Microscopy
	<i>H. leucisculus</i> <sup>74</sup>	197	37	18.78	2007	Microscopy
	<i>H. molitrix</i> <sup>101-104</sup>	97	4	0-8.57(4.12)	2004-2011	Microscopy
	<i>H. nobilis</i> <sup>103</sup>	33	7	21.21	2009	Microscopy
	<i>M. anguillicaudatus</i> <sup>74,101</sup>	41	0	0.00	2007-2009	Microscopy
	<i>P. asotus</i> <sup>74</sup>	7	0	0.00	2007	Microscopy
	<i>P. asotus</i> <sup>101-103</sup>	83	7	0-15.38(8.43)	2008-2011	Microscopy
	<i>P. fulvidraco</i> <sup>74,101</sup>	83	7	0-13.21(8.43)	2007-2009	Microscopy
	<i>Percottus glehni</i> <sup>103</sup>	102	76	74.51	2009	Microscopy
	<i>Phoxinus lagowskii</i> <sup>103</sup>	65	1	1.54	2009	Microscopy
	<i>P. parva</i> <sup>73,74,101-104</sup>	1393	1046	42.20-98.41(75.09)	2004-2011	Microscopy
	<i>Rhinogobius giurinus</i> <sup>101,102</sup>	115	16	13.30-14.00(13.91)	2004-2009	Microscopy
	<i>S. dabryi</i> <sup>74</sup>	48	24	50.00	2007	Microscopy
	<i>Shrimps</i> <sup>104</sup>	50	0	0.00	2011	Microscopy
Shanghai	<i>A. rivularis</i> <sup>77</sup>	155	0	0.00	2005-2010	Microscopy
	<i>C. auratus</i> <sup>77</sup>	203	0	0.00	2005-2010	Microscopy
	<i>C. argus</i> <sup>77</sup>	27	0	0.00	2005-2010	Microscopy
	<i>Crucians</i> <sup>77</sup>	412	0	0.00	2005-2010	Microscopy
	<i>C. carpio</i> <sup>77</sup>	69	0	0.00	2005-2010	Microscopy
	<i>H. leucisculus</i> <sup>77</sup>	608	14	2.30	2005-2010	Microscopy
	<i>M. albus</i> <sup>77</sup>	304	0	0.00	2005-2010	Microscopy
	<i>P. fulvidraco</i> <sup>77</sup>	65	0	0.00	2005-2010	Microscopy
	<i>P. clarkii</i> <sup>77</sup>	740	0	0.00	2005-2010	Microscopy
	<i>P. parva</i> <sup>77</sup>	613	48	7.83	2005-2010	Microscopy
	<i>R. sinensis</i> <sup>77</sup>	667	9	1.35	2005-2010	Microscopy
	<i>Shrimps</i> <sup>77</sup>	212	0	0.00	2005-2010	Microscopy
Zhejiang	<i>A. rivularis</i> <sup>79</sup>	242	86	35.53	2009-2011	Microscopy
	<i>P. parva</i> <sup>79</sup>	254	49	19.29	2009-2011	Microscopy
Fujian	<i>Dogs</i> <sup>105</sup>	526	11	2.09	2009-2010	Autopsy or Microscopy
Gansu	<i>Cats</i> <sup>106</sup>	57	4	7.02	2008-2009	Autopsy or Microscopy
Definitive host	<i>Dogs</i> <sup>106</sup>	256	4	0.97	2008-2009	Autopsy or Microscopy
Guangdong	<i>Cats</i> <sup>6,81,82</sup>	86	44	0-100(51.16)	2002-2012	Autopsy or Microscopy
	<i>Dogs</i> <sup>6,81,82</sup>	203	47	17.45-50(23.15)	2002-2012	Autopsy or Microscopy

Hunan	<i>Cats</i> <sup>107</sup>	57	12	21.05	2006-2007	Autopsy or Microscopy
	<i>Dogs</i> <sup>83,107,108</sup>	1910	213	8.03-85.70(11.15)	2006-2009	Autopsy or Microscopy
Jiangsu	<i>Cats</i> <sup>84</sup>	30	22	73	2006	Autopsy or Microscopy
	<i>Dogs</i> <sup>84</sup>	10	6	60	2006	Autopsy or Microscopy
Jilin	<i>Dogs</i> <sup>65</sup>	11	3	27.3	2006-2009	Autopsy or Microscopy
Liaoning	<i>Cats</i> <sup>101</sup>	6	0	0	2008-2009	Autopsy or Microscopy
	<i>Dogs</i> <sup>101,109,110</sup>	1240	49	2.40-17.50(3.95)	2008-2010	Autopsy or Microscopy

<sup>a</sup>Microscopy implies detection of any larva stages in 1<sup>st</sup> or 2<sup>nd</sup> intermediate host, or eggs in definitive host; qPCR indicates detection of DNA sample; autopsy implies detection on adult worms in liver of definitive host.

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