

~~Infection levels of protostrongylid nematodes in definitive caprine and intermediate gastropod hosts from Uzbekistan~~

~~Abdurakhim E. Kuchboev, Jürgen Krücken, Rokhatoy R. Karimova, Bakhtiyor H. Ruziev, Abduvaet Pazilov~~

Supplementary Table S1. Species composition hosts and distribution of Protostrongylidae in Uzbekistan

Parasites	Stages of development	Definitive host*	Provinces	Coordinates	
<i>Protostrongylus rufescens</i>	Adult	DS, DG	Namangan	41°1' N, 71°8' E	
	L1	DS	Fergana	40°4' N, 71°4' E	
		DS, DG	Samarkand	39°5' N, 66°8' E	
		DS, A, SI	Djizzakh	41°4' N, 70°4' E	
		DG, M	Surkhandarya	37°8' N, 66°8' E	
<i>Protostrongylus hobmaieri</i>	Adult	DS, DG	Namangan	41°1' N, 71°8' E	
	L1	DS	Fergana	40°4' N, 71°4' E	
	<i>Spiculocaulus leuckarti</i>	Adult	DS, DG	Namangan	41°4' N, 71°8' E
		L1	DS	Fergana	40°4' N, 71°4' E
			DS, A	Djizzakh	41°3' N, 70°4' E
DS, DG			Samarkand	39°5' N, 66°8' E	
DS, M	Surkhandarya		37°8' N, 66°7' E		
<i>Cystocaulus ocreatus</i>	Adult	DS, DG	Namangan	41°1' N, 71°8' E	
	L1	DS	Fergana	40°4' N, 71°4' E	
		DS, DG	Samarkand	39°5' N, 66°8' E	
		DG, A, SI	Djizzakh	41°1' N, 70°1' E	
		DS, DG, M	Surkhandarya	37°8' N, 66°7' E	
	DS, U	Kashkadarya	35°8' N, 65°4' E		

*Abbreviations of definitive hosts: DS - Domestic sheep (*Ovis aries*); DG - Domestic goat (*Capra hircus*); A- Argali (*Ovis ammon*); U- Urial (*Ovis vignei*); SI- Siberian ibex (*Capra sibirica*); M - Markhor (*Capra falconeri*);

Supplementary Table S2. Areas where gastropods samples were collected from 2012 to 2015; N=number of samples.

Intermediate Host*	Locality	Coordinates	N
XC	Fergana Valley Uzbekistan	41°8` N, 71°8` E	2982
	South of Uzbekistan	37°8` N, 66°7` E	1896
PsA	North-east of Uzbekistan	41°1` N, 70°1` E	967
	Fergana Valley Uzbekistan	41°5` N, 71°5` E	814
PsS	North-east of Uzbekistan	41°1` N, 70°1` E	168
	Fergana Valley Uzbekistan	41°5` N, 71°5` E	75
LF	Fergana Valley Uzbekistan	40°5` N, 71°5` E	107
VC	North-east of Uzbekistan	40°5` N, 66°7` E	180
GS	Fergana Valley Uzbekistan	41°8` N, 71°8` E	111
PM	Fergana Valley Uzbekistan	41°8` N, 71°8` E	224
CL	North-east of Uzbekistan	39°5` N, 67°5` E	78
MS	South of Uzbekistan	37°8` N, 66°7` E	201

*Abbreviations of intermediate hosts: XC- *Xeropicta candacharica*; PsA- *Pseudonapaeus albiplicata*; PsS - *Ps.sogdiana*; LF- *Leucozonella ferganica*; VA- *Vallonia costata*; GS- *Gibbulinopsis signata*; PM- *Pupilla muscorum*; CL- *Candaharia levanderi*; MS - *Macrochlamys sogdiana*.

Supplementary Table S3.

Gastropod species in which no protostrongylid larvae were identified; N=number of gastropods analysed.

Gastropod species	N
<i>Vallonia pulchella</i>	107
<i>Pupilla triplicata</i>	110
<i>Bradybaena lantzi</i>	350
<i>Bradybaena phaezonia</i>	300
<i>Succinea purtis</i>	222
<i>Bradybaena dichrozona</i>	215
<i>Macrochlamys turanica</i>	185
<i>Bradybaena saturata</i>	101
<i>Angiomphalia regelaina</i>	101
<i>Angiomphalia lentina</i>	95
<i>Oxyloma elegans</i>	79
<i>Zonitoides nitidus</i>	67
<i>Leucozonella caryodes</i>	65
<i>Deroceras strurangy</i>	63
<i>Deroceras leave</i>	44