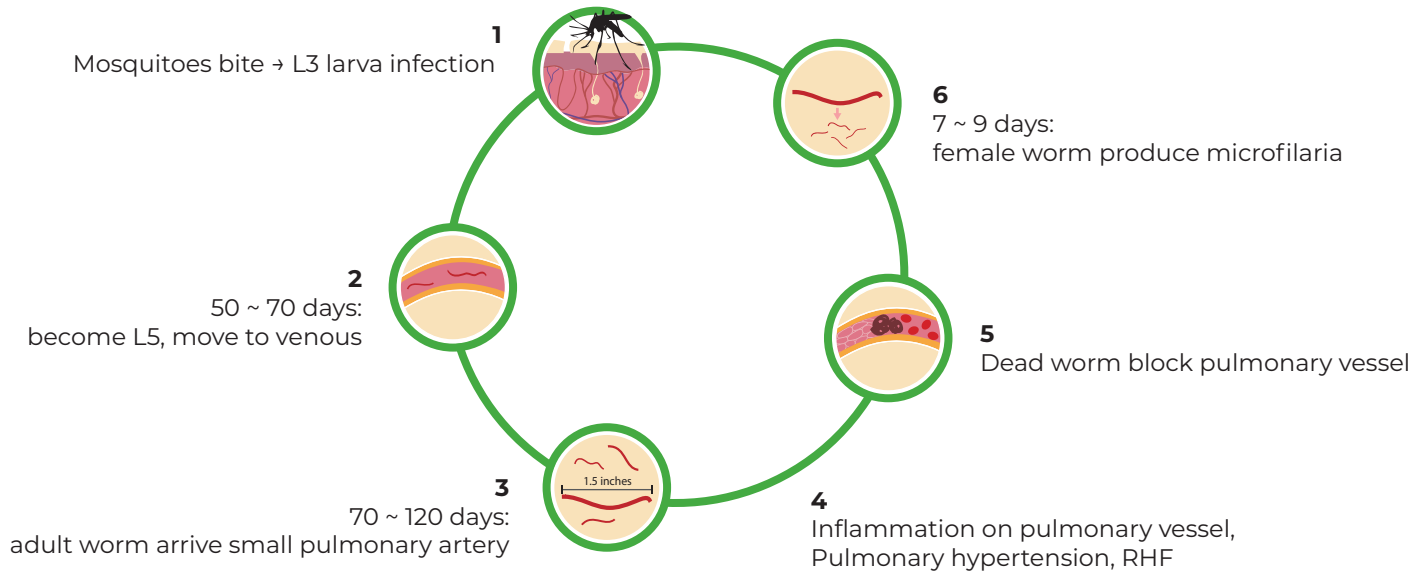


# RAPID CHW AG TEST USER GUIDELINE

## Etiologic Agent



## Transmission



## Clinical Signs

### EARLY STAGE

- Mild cough
- Depression
- Fatigue
- Anorexia
- Weight loss

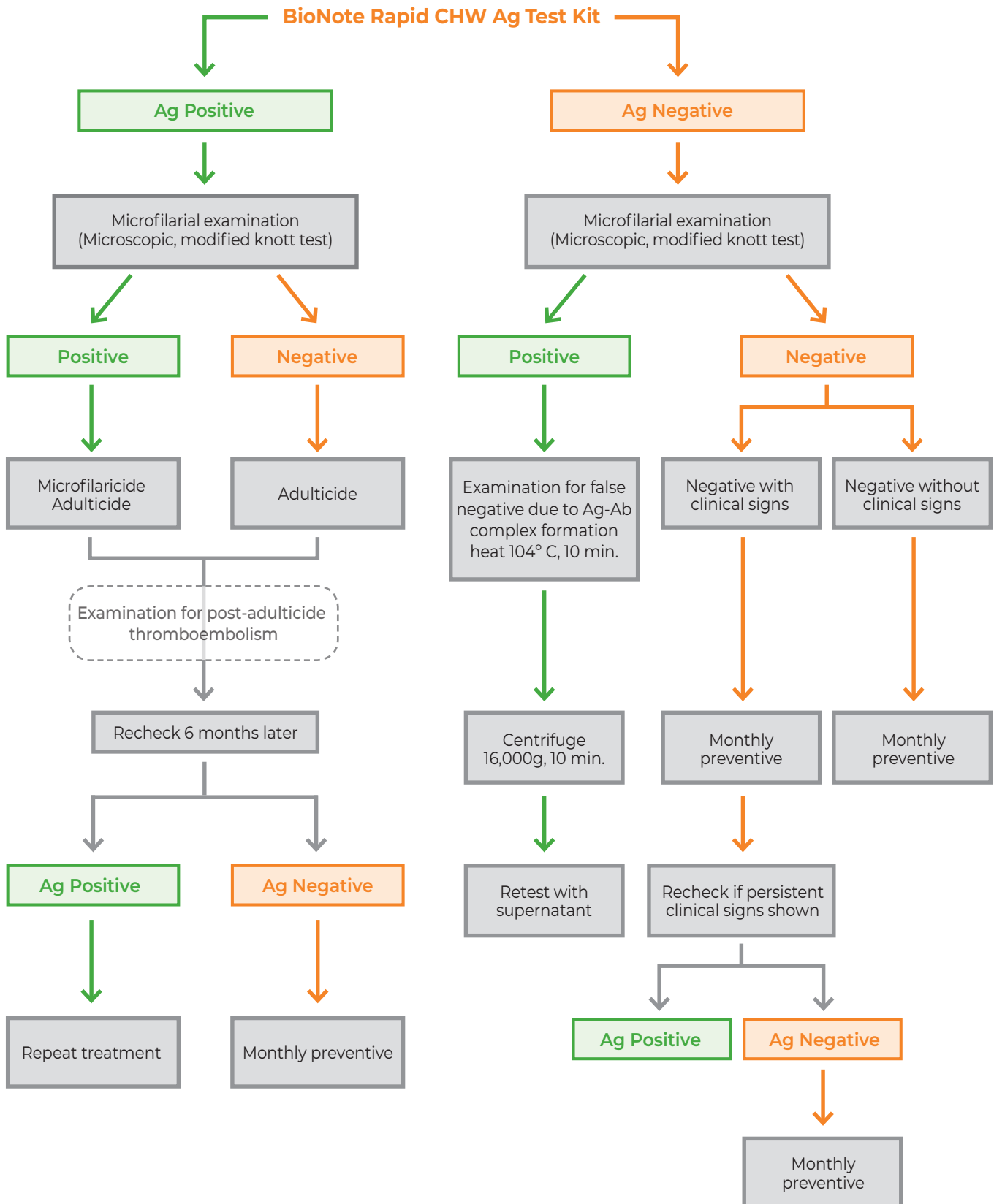
### LATE STAGE

- Abnormal heart, lung sounds
- Dyspnea, Fever
- Hemoptysis from PTE  
(Pulmonary Thromboembolism)
- Swollen belly due to excess fluid  
in the abdomen
- Hepatomegaly

### EMERGENCY

- Caval syndrome =  
Cardiovascular collapse marked  
by...
  - Sudden labored breathing
  - Pale gums
  - Dark bloody or coffee-  
colored urine

# RAPID CHW AG TEST USER GUIDELINE



## Trouble Shooting

### Microfilaria (+), Ag test (-)

Possible reasons	Plan
Ag/Ab complex formation	Heat 104°C for 10 min → centrifuge at 16,000g for 10 min. → retest with supernatant
Other parasites (A.reconditum)	PCR experiment

### Microfilaria (-), Ag test (+)

Possible reasons	Plan
Drug administration (microfilaricide)	Adulticide Treatment
Infection with immature heartworms	
Infection with only female or male worm	

## Treatment



**DAY 0** Exercise restriction. If symptomatic, stabilization with appropriate therapy and care

**DAY 0** PDS 0.5 mg/kg BID (1<sup>st</sup> Week), 0.5 mg/kg SID (2<sup>nd</sup> week), 0.5 mg/kg EOD (3<sup>rd</sup>, 4<sup>th</sup> week)

**DAY 1** Exercise restriction. If symptomatic, stabilization with appropriate therapy and care

**DAY 1~28** PDS 0.5 mg/kg BID (1<sup>st</sup> week), 0.5 mg/kg SID (2<sup>nd</sup> week), 0.5 mg/kg EOD (3<sup>rd</sup>, 4<sup>th</sup> week)

**DAY 30** Canine heartworm preventive

**DAY 60** Canine heartworm preventive

**DAY 60** 1<sup>st</sup> melarsomine 2.5 mg/kg IM

**DAY 60** Exercise restriction

**DAY 90** Canine heartworm preventive

**DAY 90** 2<sup>nd</sup> melarsomine 2.5 mg/kg IM

**DAY 91** 3<sup>rd</sup> melarsomine 2.5 mg/kg IM

**DAY 120** Microfilarial Test. If positive, microfilaricide treatment

**DAY 271** CHW Ag Test

## Evaluation

Necropsy Results			No. of Positive results by Anigen Rapid <i>Dirofilaria immitis</i> Ag	
Infection Status	No. of specimen	No. of worm/dog		
Negative (102)	102	0	0	
Positive (72)	Only adolescent worms	7	1-6	4
	Only male adult worms	4	1-3	4
	Only female adult worms	8	1-2	7
	Adult male worms and adolescents	6	1-2 adult worms	6
	Adult male worms and adolescents	11	> 2 adult worms	11
	Adult female worms and adolescents	8	1-2 adult worms	8
	Adult female worms and adolescents	6	>2 adult worms	6
	Adult worms of both sexes and adolescents	12	1-2 adult worms	12
	Adult worms of both sexes and adolescents	10	> 2 adult worms	10
Total	174		68	

Cheju National University, South Korea

### Sensitivity and specificity of ANIGEN RAPID™ and ANIGEN RAPID™ 2.0 canine heartworm antigen test kits.

Cuong Tu Ba<sup>1\*</sup>, Catherine Berezaie<sup>1</sup>, Dele Kang<sup>2</sup>, Liz Jo<sup>2</sup>. <sup>1</sup>Modern Veterinary Therapeutics, LLC, Coral Gables, FL. <sup>2</sup>Animal Genetics Inc., Korea<sup>1</sup>

necropsy showed a sensitivity of 85% (11/13) in samples with 1 female worm recovered at necropsy, 100% (12/12) in samples with 2 female worms recovered at necropsy and 100% (30/30) in samples with 3 or more female worms recovered at necropsy.

American Association of Veterinary Parasitologists 53<sup>rd</sup> Annual Meeting

