

## **Toy Manchester Terrier Heart Examination**

### *Checklist for Dilated Cardiomyopathy Suspects Showing Symptoms Consistent with Heart Disease*

The following is a list of diagnostic tests that ideally could be obtained from Toy Manchester Terrier puppies suspected of having heart disease when they are being treated in an emergency setting (i.e., locally and urgently). We recognize that these tests are expensive and/or not universally available, however information from any of the diagnostic tests below would be invaluable as little information is available on this condition antemortem. Costs incurred are the responsibility of the owner/breeder and not the CMTC, AMTC or study coordinators.

It is **essential** to note that these tests are not indispensable, and should never be obtained at the patient's expense (e.g., excessive restraint during respiratory distress). Rather, these are suggested diagnostic tests that may provide useful information for future generations of Toy Manchester Terriers inasmuch as the tests may help to better define the disease.

Physical examination findings by a veterinarian, including:

- Respiratory character (degree of respiratory effort)
- Lung sounds on auscultation
- Heart sounds on auscultation
- Heart rhythm
- Pulse quality and synchronicity with heartbeat
- Other relevant characteristics or abnormalities

Thoracic radiographs (X-rays of the chest)

Electrocardiogram (ECG, EKG)

Blood and urine tests

- CBC
- Serum chemistry profile including electrolytes
- Urinalysis
- Serum troponin-I concentration\*
- Serum ANP, BNP concentrations\*

Echocardiogram (cardiac ultrasound), including videotape or digital loops if possible

- 2D
- M-mode (left ventricle, left atrium/aorta)
- Doppler (4 valves), both spectral and color-flow

Other tests as available (e.g., serial ECG monitor printouts, many others)

\*these tests are not routinely performed in most veterinary laboratories; therefore, fresh serum (red top tube → clot → spin → save supernatant [serum]) should be saved and please notify

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