



Voice Recognition

All reporting modules

ACV 8.0

doc v1



The ASCEND clinical reporting modules support the use of Dragon Naturally Speaking voice recognition.



Dragon NaturallySpeaking

Dragon Medical

Voice recognition can be used to dictate free text notes by clicking on the microphone icon in an appropriate text entry form.

Undo Redo Help Options LEARN

Add note - Left ventricle

Search

Left ventricular wall thickness is normal.

Done Cancel Next

Other abnormalities	Description	1	New
Diastolic flattening	Early diastolic notch	Present	
Systolic flattening		Present	
Interpretation		Post-thoracotomy	

Visualization: Poorly visualized

Size: Normal-sized

Scroll for additional content →

65%. ^{Summary} Wall motion is normal; there are no regional wall motion abnormalities. ^{Summary} Wall motion score: 1.00.

Aortic valve

The valve is structurally normal. The valve is trileaflet. Cusp separation is normal. Transvalvular velocity is within the

Quick report macros can also be recorded by name and the associated findings will be automatically added to the report.

The screenshot displays a medical software interface with a dark blue header containing navigation buttons: Undo, Redo, Help, Options, and LEARN. Below the header is a secondary navigation bar with buttons for Search, Index, Prior reports, History, Study, Measurements, Calculations, and Diagram. The main content area is split into two panels. The left panel, titled 'History - transthoracic', contains a list of findings under various categories: TTE indications, HPI and indications (with sub-sections for Signs and symptoms, Endocarditis/infections, Coronary, and Myocardial), and HPI and indications (cont'd) (with sub-sections for Pericardial, ECG and rhythm, Valve disease, Pulmonary disease, Noncardiac disease, and LV function). The 'CAD' finding under the 'Coronary' sub-section is highlighted with a red box. A red arrow points from this box to the 'Coronary artery disease' entry in the right panel. The right panel, titled 'Findings Report', shows a 'Summary' section with three numbered items: 1. Left ventricle, 2. Mitral valve, and 3. New summary item. Below the summary are sections for HPI and indications, Patient status/risk factors, Study data, Procedure narrative, Left ventricle, and Aortic valve. The 'Coronary artery disease' entry is visible in the HPI and indications section.

The voice recognition feature supports related navigation actions, such as selecting a specific, visible placeholder or opening tabs by name.

The screenshot displays a medical software interface with a dark blue header containing navigation icons for Undo, Redo, Help, and Options, along with a 'LEARN' button. Below the header is a secondary navigation bar with tabs for Search, Index, Prior reports, History, Study, Measurements, Calculations, Diagrams, and Mil abnorr. The main content area is divided into several sections:

- Study - transthoracic**: The main title for the current study.
- Study data**: A list of patient demographics and study status, including Height (cm), Height (in), Weight (kg), Weight (lb), Heart rate (bpm), Systolic (mm Hg), Diastolic (mm Hg), Patient status, Study status, Location, Procedure room number, and Study type. The 'Study type' dropdown is highlighted with a red box and contains the value 'Echocardiography'.
- Procedure narrative**: A section detailing the procedure performed, purpose, ultrasound machine, technical difficulty, image quality, acoustic windows, image format, and enhancement purpose.
- Urgent and critical findings**: A section for reporting findings, including Significance, Absence of..., Finding, Reported by, Reported to, Role, Date, Time, and Read-back verified. A red arrow points from the 'Study type' dropdown to the 'Finding' field.
- Adverse outcomes**: A section for reporting adverse outcomes, currently showing 'No complications'.
- Findings Report**: A section on the right side of the interface, containing a Summary, HPI and indications, Patient status, risk factors, Study data, Procedure narrative, and Left ventricle findings.

At the bottom of the interface, there is a scroll bar and a red text prompt: 'Scroll for additional content →'.

Predefined structured reporting sentences may also be modified using voice recognition.

Undo Redo Help Options LEARN

Edit sentence

Search

Sentence from KB

The risks, benefits, and alternatives to the procedure were explained to the patient and informed consent was obtained.

Current sentence

The risks of the procedure were explained to the patient and informed consent was obtained.

Done Cancel

Technical

Sentence edits should **not** change

- The basic meaning of a finding
- Any numeric values or units

Such changes should be made using the data entry forms.

Study 7/1943. Study
Height:
Weight: 200 lb.
150/88
te spectral
to the procedure
ent was obtained.
Procedure room
Image quality
parasternal,
al. Summary Systolic
n is 55-65%. Summary
all motion
abnormalities. Summary Wall motion score: 1.00.

The voice microphone buttons can be configured for use in navigating through the *Summary*, *Impressions*, and *Recommendations* finding group free text entries.

Impressions, recommendations - transthoracic

Impressions

- Normal study
- CHD, pediatric
- Coronary artery disease
 - Coronary artery disease
 - Angina, ischemia, infarction
- Myocardial disease
- No vegetation
- Valve disease: No valve disease
- No source of embolism
- Lesions/embolic sources: Cannot exclude source
- Pericardial disease
- Manifestations of systemic disease
- Hemodynamic description
 - Overall assessment: Normal hemo
 - Comparison v prior study: Unchanged
 - Prior study date: 2018-08-07

Study data

- Teaching case
- IAC candidate
- Changes from preliminary

Recommendations

- Discussed with referring

Recommendations (cont'd)

- Refer for cath
- TEE
- TEE, R/O thrombus
- TTE, contrast
- TTE, saline

Summary:

- Normal study.
- Left ventricle:** The cavity size is normal. Wall thickness is normal. Systolic function is normal. The estimated ejection fraction is 55-65%. Wall motion is normal; there are no regional wall motion abnormalities.
- Mitral valve:** The valve is structurally normal.
- [New summary item](#)

Recommendations:

- Repeat transthoracic echocardiography in 6 month(s).
- [New recommendation](#)

History and indications: Coronary artery disease.

Prior history: Risk factors: Former tobacco user.

Study data: Race: Black. Study status: Routine. Study location: Echo laboratory. Procedure room # 3. Consent: The risks of the procedure were explained to the patient and informed consent was obtained. Procedure: Transthoracic echocardiography was performed. Image quality was adequate. Scanning was performed from the parasternal, apical, and subcostal acoustic windows. Study completion: The patient tolerated the procedure well.

Left ventricle: The cavity size is normal. Wall thickness is normal. Systolic function is normal. The estimated ejection fraction is 55-65%. Wall motion is normal; there are no regional wall motion abnormalities.

Aortic valve: The valve is structurally normal. The valve is trileaflet. Cusp separation is normal. Transvalvular velocity is within the normal range. There is no stenosis. There is no regurgitation.

Aorta and systemic arteries: Aortic root: The aortic root is normal sized.

The purchase, installation, distribution, and maintenance of the Dragon system are the responsibilities of the customer.



Dragon NaturallySpeaking

Dragon Medical



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