

Criterion for US Narration

Narration and recording criterion for ultrasound-guided ablation demonstration videos, in three parts.

Procedure Overview

The whole procedure, and which part of the video narrates it:

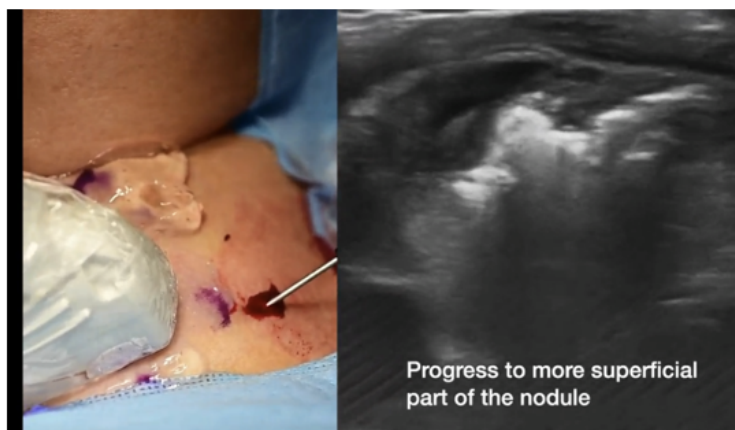
Stage	Steps	Video part
Preparation	0. Preparation — case study, operation setup	Part 1 — Case & Setup
Surgery	1. Lidocaine injection & hydrodissection (if needed). 2. Ablation — 2.1 trans-isthmus approach; 2.2 moving shot.	Part 2 — Intra-operative Narration
Post-surgery	3. Post-ablation ultrasound check	Part 3 — Post-op Analysis

0. Recording Requirements

Deliverable: one video with English audio narration, covering the case, the setup, the ultrasound ablation procedure, and the post-ablation check.

Part	Footage	Narration
Part 1 Case & Setup	Static images are sufficient — ultrasound stills, setup photos.	May be scripted and read.
Part 2 Intra-operative	Live footage. B-mode ultrasound is required; an RGB camera view of the operative field is a plus (see example below). The ablation phase must be one continuous, real-time take — no cuts, no speed-up .	Narrate while watching the footage — voice in sync with the picture at all times.
Part 3 Post-op analysis	Live post-ablation scan — Doppler / contrast-enhanced ultrasound is dynamic footage.	Narrate while watching, in sync with the picture.

Example — RGB view of the operative field (left) + B-mode ultrasound (right), side by side:



1. Part 1 — Case & Setup

This part may be scripted and narrated over static images. Cover the six items below.

Item	What to cover	Example
Patient profile	Age band, sex, main complaint (de-identified).	<i>"A 45-year-old woman presenting with neck swelling and compressive symptoms."</i>
Lesion	Location, three-axis size, key sonographic features.	<i>"A right thyroid nodule, 46.5 × 27.6 × 46.6 mm, solid and well-defined."</i>
Pathology	The cytology / histology result that defines the lesion.	<i>"Benign nodules on FNA."</i>
Chosen treatment	The procedure finally chosen. Why: the reason it was chosen over the alternatives.	<i>"We chose radiofrequency ablation because [reason]."</i>
Device setup	Ultrasound machine and probe; generator model and maximum power; electrode gauge and active-tip length; coolant. Why: the reason for this configuration.	<i>"An 18G electrode with a 10-mm active tip from Starmed, because [reason] — e.g. the short tip gives finer control near the danger structures."</i>
Anesthesia & sedation	The choice of anesthesia/sedation; drug, dose, route. Why: the rationale for this regimen.	<i>"IV midazolam 3 mg for comfort; 2% lignocaine to the skin and thyroid capsule, because [reason] — e.g. the capsule, not the gland, is pain-sensitive."</i>

2. Part 2 — Intra-operative Narration

Narration must stay aligned with the footage: describe what is happening *now*, announce what you are *about to do*, and **never narrate what is not on screen**. Silence between events is fine.

NO CUTS, NO SPEED-UP — the entire ablation phase must be one continuous, real-time take. Editing inside it breaks the timeline and invalidates the recording.

The three **blue** types are the routine narration cycle for every step of the procedure — announce it, describe it, close it. The **orange** type is different: it draws on the operator's own experience — whenever the procedure reaches a spot that deserves special caution, emphasize it there.

Type	What to say	Example
What I will do next Plan & Intention	Say the next action before doing it.	<i>"Now I will start the ablation." · "Next I will move the tip one step superficial."</i>
What we see now Real-time Procedure	Needle: tip position vs. landmarks — which unit, how deep. Image: each new sign and its extent — anesthetic or dissection fluid spreading (anesthesia / hydrodissection); echogenic cloud growing / covering the unit (ablation). Visibility: say when bubbles obscure the view or the tip is lost — and when it clears or the scan plane switches. Progress: which units are done, which remain. Within ~2 s, in the present tense.	<i>"The lignocaine is spreading along the thyroid capsule." · "The tip is now at the inferior pole." · "The echogenic zone is growing over the deep unit." · "Bubbles are obscuring the view — waiting for them to clear." · "The deep units are done; the medial superficial unit remains."</i>

Type	What to say	Example
Finishing signal Endpoint & Result	With a visible sign: say the sign that shows the step is done. Without one: say what you have done — so the step is finished.	<i>“This unit is fully hyperechoic, so its ablation is finished.” · “I have injected the lignocaine around the capsule, so the anesthesia is done.”</i>
Warn before risky steps Abnormal Events	Any step, any time: whenever something abnormal appears, call it out and explain it. At danger points, per your experience: warn before the maneuver + the mitigation.	<i>“We are approaching the danger triangle — lowering the power to 20 W.” · “A small hematoma is forming; we compress for two minutes.”</i>

3. Part 3 — Post-op Ultrasound Analysis

After the procedure, verify the result on screen. Two things to narrate:

Item	What to say	Example
How I check	Say what you are doing to verify — scan mode (grayscale sweep / Doppler / contrast-enhanced), plane, and what you are looking for.	<i>“I am now sweeping the whole nodule in the transverse plane, then checking its vascularity on Doppler.”</i>
What the image shows	Describe the current image and link it to success — the signs that show the ablation is adequate.	<i>“The nodule is diffusely hyperechoic with no internal vascularity — the ablation is adequate.”</i>

4. Language Criterion

General rules

Rule	Requirement	Example
Standard terminology	Standard English terms; expand abbreviations on first use; one name per structure.	<i>“recurrent laryngeal nerve, RLN” — thereafter “RLN”</i>
Numbers with units	Always give numbers with units.	<i>“20 W” — not “low power”, “fairly large”</i>
No bare pointing	Never a bare “here / this” — always name it.	<i>“the inferior pole of the nodule”</i>
Timing	Intentions before actions; events within ~2 s.	<i>“Now I will...” precedes the act</i>
Silence	Silence is fine; never narrate off-screen content.	—

Sentence templates

These templates are guides, not scripts: the exact wording is free, but keep their logic — the same kind of information should always follow the same structure. Square brackets mark the slots to fill.

Purpose	Template	Example
Step announcement	“We now move to [step].”	<i>“We now move to hydrodissection.”</i>

Purpose	Template	Example
Plan & Intention	"Now I will [action]." / "Next I will [action], expecting [sign]."	<i>"Next I will move the tip one step superficial."</i>
Anatomy	"On screen is [structure], located [position]."	<i>"This is the common carotid artery, lateral to the nodule."</i>
Action call-out	"Now [action], [key detail]."	<i>"Inserting the electrode through the isthmus now."</i>
Sign on the image	"Note the [sign], indicating [meaning]."	<i>"Note the hyperechoic cloud, indicating this unit is ablated."</i>
Endpoint & Result	"[Sign], so [step] is finished."	<i>"The echogenic change covers the whole nodule, so the ablation is finished."</i>
Warning	"Caution — [structure/risk] [position]; we will [mitigation]."	<i>"Caution — the RLN lies postero-medially; we lower the power to 20 W."</i>
Decision rationale	"We choose [option] because [reason]."	<i>"We choose the trans-isthmus approach because the whole shaft stays visible."</i>