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- COMPARISON BETWEEN ECG SPRAY and ECG GEL -

For a quality electrocardiogram, it is necessary to guarantee the grip of the electrodes on the patient skin and the best signal conduction. Gel usage has traditionally met these needs, but showing lack of hygiene, cleanliness and ease of use. LUMED introduces the conductive ECG spray: a new product that guarantees the highest quality of the ECG tracing avoiding the noise.

Here is a quick but useful comparison:

	ECG GEL	ECG SPRAY
		
EASE OF USE	*The ECG gel is applied on the electrodes by crushing the bottle and it turns out particularly uncomfortable for the suction ones, especially with half-empty bottle.*	*The diffuser allows to dispense the spray in any position/direction of the bottle and also allows the use up to the last drop.*
CHEAP	*Even the most experienced hand will use at least 5 grams per electrocardiogram, and then a 250-gram bottle will be theoretically enough for 50 exams.*	*One puff on the skin for each electrode is enough and the bottle will be used until is fully emptied. In total a little more than 1 gram per electrocardiogram, so a 250 ml bottle will last for at least 200 exams.*
SKIN PREP	*It is impossible to clean and prepare the skin if you are only using the gel. Many end users, before applying gel and electrodes, clean the skin with a cotton wool pad soaked in alcohol.*	*Thanks to the isopropyl alcohol contained in the spray solution, cleaning is not necessary; at best the cotton wool pad will be used with some spray puffs.*
HYGIENE	*The gel is subject to mold, especially if left open.*	*No contact between the bottle and the patient, thus avoiding any danger of cross-contamination. The spray also has a bacteriostatic power (light disinfectant).*
CLEANING	*In the long term, the solid residue left by the gel will make the cleaning of the electrodes very hard, especially for the suction ones (inside the pump).The grip, as well as the signal quality, will be affected.*	*The spray has a very small amount of solid residue and leaves no trace on electrodes that remain efficient for a long time.*
TIMESAVING	*The placement of the electrodes takes about 2 minutes each exam. At the end of the exam you must remove the amount of gel in excess to avoid stains and residues on clothing.*	*The placement of the electrodes takes about 30 seconds. At the end of the exam the patient can safely get dressed as the spray does not stain and also has a good smell.*