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REVIEWER'S REPORT

Manuscript No.: IJAR-57813

Title: Elastography in Ovarian Imaging: Emerging Applications in PCOS and PCOM.

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

| Rating | Excel. | Good | Fair | Poor |
|----------------|-----------|------|------|------|
| Originality | Excellent | | | |
| Techn. Quality | Excellent | | | |
| Clarity | Excellent | | | |
| Significance | Excellent | | | |

Reviewer's ID: Dr. Sumathi

Detailed Reviewer's Report

- Artificial intelligence (AI) is the development of computer systems capable of performing tasks that typically require human intelligence. These tasks include learning, reasoning, problem-solving, understanding natural language, and making decisions. Rather than following explicit, step-by-step programmer instructions, AI systems learn from vast amounts of data.**
- Elastography is a non-invasive medical imaging technique that measures the stiffness or "elasticity" of tissues in the body. Because diseased or scarred tissues (like those with fibrosis or tumors) are typically stiffer than healthy tissue, this test helps doctors diagnose and stage conditions without a surgical biopsy.**
- Ovarian stiffness is a biomechanical change in the ovary's tissue caused by the buildup of collagen and alterations in structural matrices. It heavily dictates reproductive health, impacting egg quality, ovarian aging, and disease progression.**
- Polycystic Ovarian Morphology (PCOM) describes the visual appearance of the ovaries on an ultrasound. It is characterized by an excess of tiny, undeveloped follicles (fluid-filled sacs containing**

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- immature eggs) or an enlarged ovarian volume. PCOM alone does not mean a person has Polycystic Ovary Syndrome (PCOS).
5. A reproductive (or pelvic) ultrasound is a safe, noninvasive imaging procedure that uses sound waves to visualize the uterus, ovaries, and fallopian tubes. It is a vital tool for diagnosing gynecological conditions (like fibroids or cysts) and monitoring fertility or pregnancy.
 6. Strain elastography is an ultrasound technique that evaluates tissue stiffness by measuring how much a tissue deforms (its "strain") when compressed. Because diseased tissues (like tumors) are typically harder and deform less than healthy tissues, it is primarily used alongside conventional imaging to characterize lesions in the breast, thyroid, and liver.
 7. Stromal fibrosis is a condition where the connective tissue (stroma) of an organ thickens and becomes scarred due to the proliferation of fibrous tissue. While it can affect various organs (like the lungs or liver), it is most frequently diagnosed in the breast as a benign (non-cancerous) finding.
 8. Ultrasonography (ultrasound) is a safe, noninvasive imaging technique that uses high-frequency sound waves to visualize internal organs, soft tissues, and blood flow in real-time. Because it relies on sound waves rather than ionizing radiation, it is widely used across multiple medical specialties.
 9. Key words are given excellent.
 10. Significant points with flow chart of main points are awesome.
 11. Pictures with histopathology are excellent.
 12. Sufficient information are given.
 13. References only can be given in alphabetical order.
 14. After a small changes good to publish in your journal.