

## **IMPACT AND FUTURE SCOPE**

- F Regular usage of formalin as fixative, dehydration by graded concentration of alcohol, paraffin infiltration, manual embedding and sectioning is very effective to produce tissue sections of uniform and better quality. As we are moving to opt rapid, reliable and automated era, the routine practice is now challenged because it is relatively unable to fulfil the support in urgent cases as per present needs of clinicians. As the routine manual histoprocessing method is stressful, tedious, slower and needs harmful chemicals, other methods like microwave tissue processing are “a ray of hope for the future.”
- F The microwave-assisted tissue processing have brought about a revolution in histopathology field. The method reduces the tissue processing time from hours to minutes. This method responds to the needs of patient and the physician, improves the usage of reagents by reduction or elimination of its the toxic effects, provides a laboratory staff-friendly workflow and puts the laboratory in a better position to fulfil the needs of a faster growing field of molecular medicine industry.
- F Microwave technology is so advanced that if the patient comes in the morning to a hospital or clinic, examined by a doctor and performed biopsy procedure by a surgeon. The biopsy reports will be ready by 3PM that afternoon if the biopsy is sent to the laboratory by noon.
- F Developments in microwave manufacturing design and a wider adoption of microwave technology for rapid tissue processing makes the sentence of catchphrase “same-day turnaround” a reality. This rapid turnaround not only decreases anxiety of patients and reagent use but also enhances effectiveness.