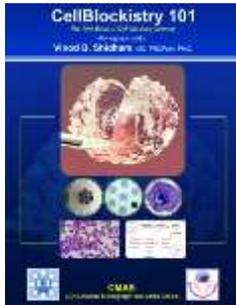


CellBlockistry 101 (Text book of cell-blocking Science)



Book release event archived on YouTube (CytoJournalVideo Channel) at <https://youtu.be/Ej8vKlygeU0>

Press release CAP Today <https://www.captodayonline.com/cellbl...>

(To visit above sites, please click on the link or copy-paste above URLs in to your browser)

About the book:

MONOGRAPH EDITOR

VINOD B. SHIDHAM, MD, FRCPATH, FIAC

- Imprint: Hardbound Book
- On sale: May 2021 (Link: <https://cytojournal.com/purchase-monograph/>)
- Price: \$50 (eCytoJournal: eBook FREE after CF Member log-in <https://cytojournal.com/eissues>)
- ISBN: 978-1-955571-00-5

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Cancer is a lethal disease with increasing numbers. Early diagnosis with minimally invasive modality is an important step in management. Cytopathology is commonly used for early diagnosis to follow-up at various stages during the treatment of cancer.

In addition to the study of cellular details in cytology preparations, the cytology specimens may have to be processed similar to the surgical biopsies for some special studies. Cell-blocks of cytology specimens are comparable to the formalin-fixed paraffin-embedded (FFPE) tissue from surgical pathology specimens. They allow various elective ancillary studies on a variety of specimens through enhanced cytopathologic interpretation, including opportunity to perform immunohistochemistry, special stains, molecular tests, and other recently evolving studies such as proteomics.

CellBlockistry is the science studying chemistry and the art of achieving quantitatively and qualitatively improved cell-blocks from different types of specimens. In addition to

the role of CellBlockistry in clinical medicine in the field of cancer, it has a significant role in other non-cancer areas including infection and storage disorders such amyloidosis. it has an increasing role in veterinary sciences and various basic science research.

This pioneering book addresses the cell-block making process and “cell-blocking” related challenges with recent advances in improved interdisciplinary coordination for maximally optimal outcome with ongoing research in the field.

Potential readers:

Pathologists, cytopathologists, cytotechnologists, cytoprep technologists, and other fields associated with cell-blocks directly or indirectly including radiologists, laboratory personnel, histotechnologists, immunohistochemistry technologists, veterinary sciences, basic science researchers.

About the editor of the book:

Dr. Shidham is a recognized leader in the field of cytopathology and surgical pathology. Currently, he is Professor of Pathology at Wayne State University School of Medicine, Karmanos Cancer Center, & Detroit Medical Center, Detroit, MI in USA. He is Vice chair- Anatomic Pathology and Director of Cytopathology, and Cytopathology fellowship. Prior to this, he was professor and founder Director of Cytopathology Fellowship Training Program and FNA service at Medical College of Wisconsin at Milwaukee, WI, USA. His initial career started at Govt. Medical College at Nagpur, Maharashtra in India. After serving in India as an academic pathologist at Grant Medical College and JJ Group of Hospitals in Mumbai till 1985, he left for middle east and then to USA.

Prior to his board in anatomic pathology, clinical pathology, and cytopathology in USA after ACGME recognized training, he had also completed his pathology training in India and had Royal College of Pathologists membership from UK.

His areas of interest and expertise include cytopathology (fine needle aspiration biopsy-both technical and interpretation, serous cavity fluid cytopathology, pulmonary cytopathology, intraoperative cytopathology, emerging technologies in cytopathology, molecular cytopathology) and surgical pathology (soft tissue tumors, gastrointestinal pathology).

He has focused on novel technologies and has invented-developed variety of methods and devices including Shidham’s stain for urate crystal in tissue sections, method for staining air-dried smears with Papanicolaou and HE stain, ‘MCW melanoma cocktail’ for evaluation of melanoma micrometastases in sentinel lymph nodes, rapid intraoperative immunocytochemical evaluation of imprint smears of sentinel lymph nodes for melanoma micrometastases, special easy to use fine needle aspiration biopsy needle device with functional valve, AV marker, SCIP approach for evaluation of immunoprofiles of cell block sections especially of serous fluids, and Shidham’s device

for making cell blocks. Many of these researches were funded by grants from various institutions including National Institute of Health, Bethesda, MD, USA and Cancer Center of Medical College of Wisconsin, Milwaukee, WI, USA..

He has served in various capacities with many national and international professional organizations. He has published extensively and presented at various national-international conferences. He has also contributed multiple chapters including 'Respiratory Tract Cytopathology' in Atkinson Atlas of Diagnostic Cytopathology; Serous effusions: reactive, benign and malignant, In Gray & Kocjan, ed. Diagnostic Cytopathology, Elsevier, 3rd edition, Chapter 3; and Anaplastic carcinoma, In Cibas & Ali, ed, The Bethesda System for Reporting Thyroid Cytopathology: Definitions, Criteria, and Explanatory Notes- Based on NCI Thyroid Fine Needle Aspiration State of the Science Conference, Chapter 11.

He is editor and contributing author of 'Diagnostic Cytopathology of Serous Cavity Fluid' (W. B. Saunders Company, Philadelphia, PA ISBN:141600145X; ISBN-13: 9781416001454).

Dr. Shidham is a strong proponent of 'Open access' philosophy in academic publications. He is editor-in-chief of 'CytoJournal" (<http://www.cytojournal.com>) which is a peer-reviewed, PubMed indexed open access journal publishing high quality papers in cytopathology.

Brief summary in pointwise fashion is mentioned below:

LEADERSHIP ROLES:

1. Founding editor- 'CytoJournal' (www.cytojournal.com).
Currently Executive editor and Coeditor-in-chief
A peer-reviewed, open-access, PubMed indexed, one of the five scholarly Cytopathology journals.
2. Founding director of Cytopathology fellowship training program, Medical College of Wisconsin, Milwaukee (1998).
3. Founding director of Fine Needle Aspiration Biopsy (FNAB) cytology service, Medical College of Wisconsin, Milwaukee (1998).
4. Novel method to teach FNAB technique to M2 in wet lab, using fresh cattle liver stuffed in latex glove.
5. Pioneered intraoperative immunocytochemical evaluation of sentinel lymph nodes for melanoma metastases as a clinical test in concert with various departments as interdisciplinary exercise.
6. President and other executive positions including Program chair for Wisconsin Society of Pathologists- Organized scientific programs for annual conferences since 2001. Currently WSP web page advisor.
7. Represented Wisconsin Society of pathologists for CME accreditation.
8. Pioneered CytoJournal Retreat for PR in Cytopathology during 95th USCAP Annual Meeting of 2006, Atlanta, GA
9. Mentored junior colleagues in the department and international visiting professors.
10. Many awards and honors.

11. Launched and established various entrepreneurial ventures.
12. Consultant- regional, national, and international: evaluation of sentinel lymph node for melanoma micrometastases, AV BioInnovation LLC, Michigan, USA.
13. Completed 2004-2005 Faculty Leadership Development Program, University of Wisconsin Milwaukee- School of Business Administration & Medical College of Wisconsin, Milwaukee, WI
14. Prepublication review of book proposals requested by publisher.
15. Regional, national, and international elected / appointed positions in various societies and committees.
16. Pioneering proponent and member of Task force for Progressive Evaluation of Competency (PEC) (In-service Examination for Cytopathology Fellow Competency Evaluation) by the American Society of Cytopathology, Wilmington,
17. Member- Publications committee, NCI Thyroid Fine Needle Aspiration State of the Science Conference (Consensus conference Oct 22-23, 2007)
<http://thyroidfna.cancer.gov/pages/committees/subject/>
18. Member- ASC Long term planning committee, American Society of Cytopathology, Wilmington.
19. President, Cytopathology Foundation Inc- a non-profit organization to support 'open access publishing' in cytopathology.
20. Editor, Focus <http://www.papsociety.org/newsletters.html> The Papanicolaou Society of Cytopathology, Companion society of USCAP
21. Member GME Leadership Academy, Graduate Medical Education, DMC/WSU- School of Medicine, Detroit, MI
22. Pioneered science of cell-block making as CellBlockistry
http://www.cytojournal.com/temp/CytoJournal16112-3882578_104705.pdf

COMMUNITY SERVICE ACTIVITIES:

1. Founding President- Cytopathology-Foundation, Inc. For Open Access advocacy in cytopathology.
2. Member of Workgroup, screening, and detection group, Wisconsin's Comprehensive Cancer Control Plan:
3. Media events- News: Several channels such as NBC, Fox, and ABC- Melanoma SLN micrometastases.
4. Invited member Elm Grove Beatification Committee
5. Volunteer, Milwaukee Cares- Opening doors for the uninsured (serve uninsured patients)

SCHOLARLY ACTIVITIES / INVENTIONS

1. Author and editor of books:
'Cytopathologic Diagnosis of Serous Fluids'
with Barbara F. Atkinson, Elsevier (W. B. Saunders Company).
<https://www.scribd.com/doc/14534805/Cytopathologic-Diagnosis-of-Serous-Fluids-Shidham-Atkinson>
2. Authored chapters in printed books and on-line books (Recent in 2019 Textbook of GI Oncology chapter).
3. Numerous research articles, abstracts, editorials, letters to editor, and review articles.

4. Authored recommendations and practice guidelines for societies.
 5. Numerous peer reviewed poster presentations.
 6. Numerous national and international invited lectures.
 7. PI and collaborator on grants- including PI on interdisciplinary cancer center grant and NIH STTR grant.
 8. Editorial activities- including peer-review, editorial board, and editor-in-chief.
 9. Representation for accreditation to Wisconsin Society of Pathologists for CME requirements.
 10. Inventions including-
 - Shidham's stain for urate crystal in tissue sections,
 - Method for staining air-dried smears with Papanicolaou and HE stain,
 - 'MCW melanoma cocktail' for evaluation of melanoma micrometastases in sentinel lymph nodes (SLN),
 - Rapid intraoperative immunocytochemical evaluation of sentinel lymph nodes for melanoma micrometastases,
 - Special easy to use fine needle aspiration biopsy needle device with functional valve,
 - AV marker,
 - SCIP approach for evaluation of immunoprofiles of cell block sections especially of serous fluids, and
 - Shidham's device for making cell blocks (JoVE).
 - Pioneered 'Science of CellBlockistry'
- http://www.cytojournal.com/temp/CytoJournal16112-3882578_104705.pdf
http://www.clinicsinsurgery.com/pdfs_folder/cis-v4-id2510.pdf
- Pioneered many 2 color immunohistochemistry:
 - Ki67 & LCA for NETs,
 - BerEP4 with vimentin for SCIP on Serous Effusions)
 - Quantitation of Ki67- 2 color with LCA and digitization.
 - Digitization and open access of peer-reviewed Cytopathology literature
 - Digital Tele-cytopathology for rapid onsite adequacy evaluation
 - Plan for RFID tracking of slides and Paraffin blocks
 - Novel algorithm with whole slide digitization of glass slides with sign-out matching with conventional microscopy with potential to add Artificial intelligence.
11. Various administrative and academic positions, national and international in pathology since 1977.
 12. Introduction of CytoJournal Monographs- for timely topics in cytopathology.
 13. Workshops, symposia, and teleconference.
 14. Invited contributing author- Atlas on Thyroid FNA- Post NCI Thyroid FNA State of the Science Conference
 15. Established protocol for Cell block preparation of cytology specimens with singly scattered loose cells (JoVE. 29) Video article is available FREE in open access on web at- <http://www.jove.com/index/Details.stp?ID=1316>
 16. Designed FNA Phantom lesion (JoVE, 31)- <http://www.jove.com/index/Details.stp?ID=1404>
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Key words: Biopsy, cell block, cell-blocking, CellBlockistry, fluorescent *in situ* hybridization, FISH, chromogenic *in situ* hybridization, CISH, cytocrit, cytology, formalin-fixed paraffin-embedded, amyloidosis, FFPE, fixation, fine needle aspiration, immunohistochemistry, molecular pathology, subtractive coordinate immunoreactivity pattern, SCIP, Tissuecrit.