ICDB

Interstitial Cystitis Data Base

Specimen ID: __ __ __ - __

Biopsy Date: __ __ / __ __ / __ __
         month   day   year

Reader ID: __ __ __ __

Review Date: __ __ / __ __ / __ __
         month   day   year

Biopsy Form

To be completed ONLY by the Anatomic Pathology Laboratory:

K *If suffix of Specimen ID is 1, then skip questions 1-6.*

1. Mast cell count in detrusor muscle (long toluidine blue stain): _____ mast cells/mm^2 ☐ NA

2. Mast cell count in lamina propria (long toluidine blue stain): _____ mast cells/mm^2 ☐ NA

3. Mast cell count in urothelium (long toluidine blue stain): _____ mast cells/mm^2 ☐ NA

4. Mast cell count in detrusor muscle (tryptase stain): _____ mast cells/mm^2 ☐ NA

5. Mast cell count in lamina propria (tryptase stain): _____ mast cells/mm^2 ☐ NA

6. Mast cell count in urothelium (tryptase stain): _____ mast cells/mm^2 ☐ NA

To be completed by the Pathology Reading Group:

7. How much deep muscle was obtained?
   - ☐$_0$ an unevaluable amount (none or less than 1/HPF)
   - ☐$_1$ an evaluable amount

8. Lamina propria presence   ☐$_1$ yes   ☐$_0$ no

9. <u>Urothelial status</u>
   a. Completely denuded: ☐$_1$ yes   ☐$_0$ no   ☐$_9$ NA
   b. Urothelial discontinuities   ☐$_1$ yes   ☐$_0$ no   ☐$_9$ NA
   c. Urothelial wedge shaped ulcerations   ☐$_1$ yes   ☐$_0$ no   ☐$_9$ NA

10. Granulation tissue lamina propria   ☐$_1$ yes   ☐$_0$ no   ☐$_9$ NA

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11. % of mucosa denuded of urothelium:
- $\square_0$ none
- $\square_1$ 1-25% of mucosa
- $\square_2$ 26-50% of mucosa
- $\square_3$ 51-99% of mucosa
- $\square_4$ all (100%) of mucosa

12. Submucosal hemorrhage:
- $\square_0$ none
- $\square_1$ 1-25% of submucosa
- $\square_2$ 26-50% of submucosa
- $\square_3$ greater than 50% of submucosa

13. Qualitative distribution of submucosal hemorrhage:
- $\square_1$ diffuse only
- $\square_2$ diffuse and aggregated
- $\square_3$ aggregated only
- $\square_9$ NA

14. Submucosal granulation tissue (small vessel proliferation with fibroplasia and inflammation):
- $\square_0$ none
- $\square_1$ 1-25% of submucosa
- $\square_2$ 26-50% of submucosa
- $\square_3$ greater than 50% of submucosa

15. Hyperplastic muscularis mucosa:
- $\square_1$ yes
- $\square_0$ no

16. Eosinophilia

a. In urothelium?	$\square_1$ yes	$\square_0$ no	$\square_9$ NA
b. In lamina propria?	$\square_1$ yes	$\square_0$ no	$\square_9$ NA
c. In muscularis propria?	$\square_1$ yes	$\square_0$ no	$\square_9$ NA

17. Mononuclear endothelitis:
- $\square_1$ yes
- $\square_0$ no

18. Transmural mononuclear vasculitis:
- $\square_1$ yes
- $\square_0$ no

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19. Detrusor myopathy
    a. Vacuolar degeneration $\square_1$ yes $\square_0$ no $\square_9$ NA
    b. Nuclear pyknosis $\square_1$ yes $\square_0$ no $\square_9$ NA
    c. Nuclear karyorrhexsis $\square_1$ yes $\square_0$ no $\square_9$ NA

20. Mucosal edema
    $\square_1$ yes
    $\square_0$ no

21. Urothelial metaplasia
    a. Squamous metaplasia $\square_1$ yes $\square_0$ no $\square_9$ NA
    b. Mucinous metaplasia $\square_1$ yes $\square_0$ no $\square_9$ NA
    c. Nephrogenic metaplasia $\square_1$ yes $\square_0$ no $\square_9$ NA
    d. Glandular metaplasia $\square_1$ yes $\square_0$ no $\square_9$ NA

22. Reactive urothelial change
    $\square_0$ absent
    $\square_1$ present
    $\square_9$ NA

23. Urothelial hyperplasia
    $\square_1$ yes
    $\square_0$ no
    $\square_9$ NA
        K *IF suffix of Specimen ID is 1, then STOP HERE.*

24. LCA stain and lymphocyte infiltrate:
    $\square_0$ concordant   **K** *Please complete Questions 25-29 "on LCA stain."*
    $\square_1$ discordant   **K** *Please complete Questions 25-29 "on histology."*
       (defined as twice as many mononuclear cells on histology as compared to LCA stain)
    $\square_9$ NA (LCA inadequate)   **K** *Please go to Question 30.*

25. Urothelial hematopoietic cells on LCA stain (semiquantitative integration of area involved):
    Use histology only if question #24 is discordant.
    $\square_0$ none
    $\square_1$ 1-10% of urothelium
    $\square_2$ 11-40% of urothelium
    $\square_3$ greater than 40% of urothelium
    $\square_9$ NA

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26. Lamina propria hematopoietic cells on LCA stain (semiquantitative integration of area involved):
    Use histology only if question #24 is discordant.
    - $\square_0$ none
    - $\square_1$ 1-10% of lamina propria
    - $\square_2$ 11-40% of lamina propria
    - $\square_3$ greater than 40% of lamina propria
    - $\square_9$ NA

27. Qualitative distribution of lamina propria infiltrate on LCA stain (semiquantitative integration of area involved):
    Use histology only if question #24 is discordant.
    - $\square_1$ diffuse only
    - $\square_2$ diffuse and aggregated
    - $\square_3$ aggregated only
    - $\square_9$ NA

28. Muscularis propria hematopoietic cells on LCA stain (semiquantitative integration of area involved):
    Use histology only if question #24 is discordant.
    - $\square_0$ none
    - $\square_1$ 1-10% of muscularis propria
    - $\square_2$ 11-40% of muscularis propria
    - $\square_3$ greater than 40% of muscularis propria
    - $\square_9$ NA

29. Qualitative distribution of muscularis propria infiltrate on LCA stain (semiquantitative integration of area involved):
    Use histology only if question #24 is discordant.
    - $\square_1$ diffuse only
    - $\square_2$ diffuse and aggregated
    - $\square_3$ aggregated only
    - $\square_9$ NA

30. Lamina propria collagen quality on trichrome stain (dominant):
    - $\square_1$ dense
    - $\square_2$ loose
    - $\square_9$ NA

31. Fibrosis of detrusor muscle on trichrome stain:
    - $\square_0$ none
    - $\square_1$ 1-10% of muscularis propria space
    - $\square_2$ 11-40% of muscularis propria space
    - $\square_3$ greater than 40% of muscularis propria space
    - $\square_9$ NA

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32. Nerves in lamina propria on S100 stain (small bundles or bipolar serpentine twiglets):
   - $\square_0$ none
   - $\square_1$ 1-10% of lamina propria
   - $\square_2$ 11-40% of lamina propria
   - $\square_3$ greater than 40% of lamina propria
   - $\square_9$ NA

33. Nerves in muscularis propria on S100 stain (small bundles or bipolar serpentine twiglets):
   - $\square_0$ none
   - $\square_1$ 1-10% of muscularis propria space
   - $\square_2$ 11-40% of muscularis propria space
   - $\square_3$ greater than 40% of muscularis propria space
   - $\square_9$ NA

34. S100 positive mononuclear cells in lamina propria:
   - $\square_0$ none
   - $\square_1$ 1-10% of lamina propria
   - $\square_2$ 11-40% of lamina propria
   - $\square_3$ greater than 40% of lamina propria
   - $\square_9$ NA

35. Perineural inflammation on S100 stain (nerve twig w/circumferential cuff of mononuclear cells):
   - $\square_1$ yes
   - $\square_0$ no
   - $\square_9$ NA

36. Vessels in lamina propria on F8 stain:
   - $\square_0$ none
   - $\square_1$ less than 10% of lamina propria
   - $\square_2$ 10-40% of lamina propria
   - $\square_3$ greater than 40% of lamina propria
   - $\square_9$ NA

37. Distribution of vessels in lamina propria on F8 stain:
   - $\square_0$ random
   - $\square_1$ subepithelial clustering
   - $\square_2$ non-subepithelial clustering
   - $\square_9$ NA

38. Vessels in muscularis propria on F8 stain:
   - $\square_0$ none
   - $\square_1$ 1-10% of muscularis propria space
   - $\square_2$ 11-40% of muscularis propria space
   - $\square_3$ greater than 40% of muscularis propria space
   - $\square_9$ NA

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39. Distribution of vessels in muscularis propria on F8 stain:
$\square_0$ random
$\square_1$ perifasicular clustering
$\square_2$ intrafasicular clustering
$\square_9$ NA