TRAINING UPDATE

Lab Location: Department: GEC, SGMC & WAH Core lab
 Date Distributed:
 7/10/2017

 Due Date:
 8/10/2017

 Implementation:
 n/a

Description:

Attached is a page from the CAP participant summary for a gram stain micrograph. This was part of a recent gram stain CAP survey (D5-A).

Please review the information and then take the MTS quiz

This update should be completed no later than August 10, 2017

Gram Stain



Discussion

D5-04

This was a simulated liver abscess from a 70-year-old female with colon cancer. This slide contained *Fusobacterium nucleatum*, which stained as gram-negative bacilli. *Fusobacterium nucleatum* is a long, thin gram-negative anaerobic bacillus, with parallel sides and characteristic tapered ends. In smears, individual bacilli may appear close together, giving the false appearance of branching. This appearance should not be confused with true branching, in which filaments are attached via the cell wall to the main parent filament. Branching bacteria most commonly encountered in clinical specimens (e.g. *Actinomycetes*) are grampositive or weakly acid-fast; gram-negative staining is not encountered. Leukocytes were present.

	Referees (65)		Part	Participants (1719)	
Stain Reaction	No.	%	No		%
Gram-negative	65	100.0	165	8	96.5
Gram-positive	-	-	6	51	3.5
Morphology *					
Bacilli			124	8	72.6
Branching filaments			44	3	25.8
Cocci			1	8	1.1
Cocci in pairs and chains				5	0.3
Cocci in clusters				4	0.2
Diplococci				1	0.1
Leukocytes					
Polymorphonuclear leukocytes Absent			4	9	2.9
Polymorphonuclear leukocytes Present			166	51	97.1

* Morphology was not graded due to lack of participant consensus- Code 27.