# The ABC's of Vaginal Health...



### 182 Aerobic Vaginitis (AV)Group B Streptococcus (GBS)

- Staphylococcus aureus
- Escherichia coli
- Enterococcus faecalis



#### 759 Bacterial Vaginosis (BV) with Lactobacillus Profiling by PCR

- Fannyhessea vaginae (Atopobium vaginae) •
- Bacterial Vaginosis Associated Bacteria 1
- Bacterial Vaginosis Associated Bacteria 2
- Bacterial Vaginosis Associated Bacteria 3
- Bacteroides fragilis
- Bifidobacterium breve
- Gardnerella vaginalis

- Megasphaera type 1
- Megasphaera type 2
- Mobiluncus curtisii
- Mobiluncus mulieris
- Prevotella bivia
- Sneathia sanguinegens
- Streptococcus anginosus

Considered Medically Necessary by the CDC and Aetna for the Management of Vaginitis and the Diagnosis of Bacterial Vaginosis in Symptomatic Women<sup>1, 2</sup>



#### 560 Candida Vaginitis (CV)

- Candida albicans
- Candida glabrata
- Candida krusei
- Candida parapsilosis
- Candida tropicalis

**Fluconazole** Resistance Testing Available

#### Diagnostic Advantages...

- One vial, multiple pathogens
- DNA amplification via PCR technology
- Microbial drug resistance profiling
- High precision robotic accuracy
- High diagnostic sensitivity & specificity
- Specimen viability up to 5 days after collection
- Test additions available up to 30 days after collection
- No refrigeration required before or after collection
- Blood and excess mucus will not affect results.



#### References:

- $\textbf{Diagnosis of Vaginitis} \ 2022, \ October \ 31. \ "Diagnosis of Vaginitis". \ https://www.aetna.com/cpb/medical/data/600\_699/0643.html$
- Workowski KA, Bachmann LH, Chan PA, et al. 2021, July 23. "Sexually Transmitted Infections Treatment Guidelines, 2021".



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## **AV IS NOT BV**

#### A Comparison of Bacterial Vaginosis and Aerobic Vaginitis

Clinical Characteristics	Bacterial Vaginosis	Aerobic Vaginitis (1)
Lactobacilli	Displaced	Displaced
Pathogen	Gardnerella vaginalis, Atopobium vaginae, Megasphaera species, BVAB2	Escherichia coli, Group B Streptococcus, Staphylococcus aureus, Enterococcus faecalis
Vaginal epithelial inflammation	None	Present
Elevation of pro-inflammatory cytokines (IL-1 $\beta$ , IL-6, IL-8)	Moderate elevation	High elevation
Immune reaction (cytotoxic leukocyte)	Non-reactive	Reactive
pH [Normal = 3.8 – 4.2]	T= 4.2-4.5 BV ≥ 4.5	> 4.5; usually >6
Shed vaginal epithelial cells	Clue cells	Parabasal cells
Vaginal discharge characteristic	White, homogenous	Yellowish
10% KOH Whiff Test (fishy amine odor)	Positive	Negative
Treatment	Metronidazole <sup>b</sup> Clindamycin <sup>b</sup>	Kanamycin ovule. (1) 2% clindamycin topical. (2) Fluoroquinolones are reported to have clinical success. (1) GBS is uniformly sensitive to penicillin, ampicillin, amoxicillin, amoxicillin/ clavulanic acid. (3)  E. faecalis is traditionally treated with ampicillin. (4)

Fluoroquinolones, such as ciprofloxacin, ofloxacin, and levofloxacin, are contraindicated in pregnant women. Levofloxacin has improved efficacy against Streptococci compared to ciprofloxacin. T= Transitional.

#### References:

- 1. Larsson PG. 1992. Treatment of bacterial vaginosis. Int J STD AIDS 3: 239-247.
- 2. Sobel JD, Reichman O, Misra D, Yoo W. 2011. Prognosis and Treatment of Desquamative Inflammatory Vaginitis. Obstet Gynecol 117: 850-855.
- 3. Tempera, G, Bonfiglio G, Comparata E, Corsello S, Cianci A. 2004. Microbiological/clinical characteristics and validation of topical therapy with kanamycin in aerobic vaginitis: a pilot study. Int J Antimicrob Agents 24: 85-88.
- 4. Tempera G, Furneri PM. 2010. Management of Aerobic Vaginitis. Gynecol Obstet Invest 70: 244-249.



