DEFINITION OF CLASSICAL BACTERIAL COUNT BACTER

This subject has been fully never the second of that a dear agreement has not been reached by the continence scientific community. On one hand, the pioneering world of Kass, a Harvard nephrologist, established the time homoved definition of significant bacteriuria as 2117 months from the units (ful per ml (or >108 cfu/L), which was been in the differentiation of pyelonephritis from contaminated unine specimens. This work was done in the 1950s, when the standard showed undiagnosed pyelonephritis as a common described by the state of the s et al.27 later re-evaluated the conventional contents in 187 women, and found that such a strict confidence in magnesis of bacterial cystitis would miss about helf of those who did have clinical features of bacterial costinis. He constitute that the best diagnostic criterion was ≥10 barrens of the matter to who void frequently (such as OAE) The first profine of urine in the bladder may thus be reduced with insufficient time to permit multiplication of bacteria to maximal succession bers-therefore, such patients may be more likely to demonstrate "low count" bacterium Turning and impedigated the importance of "low count backerings" in any governors outpatients and concluded that low count bacteriaria (>10² cfu/ml) was clinically relevant and probably was a manifestation of early bacterial costilis that had not yet become fully established. Aray-Enger et al. 1981 and 1981 to postpone treatment of their costills symptoms for 2 days. and came to the same conclusion.

The Infectious Diseases Society and the European Association of Urology European Association of Urology European Association of Urology European Association of Urology European Association of bacterial continues for the diagnostic cutoff of European Europ

RELEVANCE OF PROPERTY

The diagnostic criteria for bacterial required evidence of pyuria. As a secondamination is excluded, usually be epithelial cells, then "bacterium in the epithel

Stamm³⁰ investigated different methods of measuring pyuria, and concluded that pyuria should be expressed as leukocytes per ml. Measuring pyuria per high more centrifuged urine specimen did not conselate well with more

precise assays such as leukocyte excretion rate or hemocytometer chamber counts. Kunin et al.²⁸ established that the prevalence of pyuria rises with the level of bacteriuria, therefore, patients with low count bacteriuria do not always express pyuria, in keeping with the notion that low count bacteriuria is just an early phase of classical bacterial cystitis. The importance of pyuria was discussed by Think Tank participants, but no clear conclusion was reached as to whether the presence of pyuria is an essential diagnostic criterion for bacterial cystitis.

In general, catheter specimens of urine (CSU) are more likely to give a true representation of the presence of pyuria, compared with Mid Stream Urine (MSU) samples. The need for vigorous labial toilet, as opposed to a simple clean catch technique, was emphasized by participants. Although no direct comparison of labial toilet (washing the labia with sterile saline then opening the labia out laterally before commencing the clean catch MSU) versus simple clean catch technique has been published, anecdotal evidence suggests that the former method will reduce the likelihood of perineal organisms falling into the specimen pot (which may yield a "contamination" result). The argument regarding need for catheter urine specimens in the research context was briefly touched upon but not conclusively agreed upon. Consensus was not reached about the use of CSU versus MSU, because CSU is much more invasive for the patient, less agreeable to Ethics Committees and more time consuming/ costly for the researcher. Therefore insistence upon CSU specimens generally limits recruitment into research studies. A comparison study of MSU by strict labial toilet versus CSU does not appear to have been published (but see Clinical Studies below for further discussion).

CLINICAL STUDIES IN PATIENTS WITH REFRACTORY OAB/DO

As mentioned above, part of the reason for this Think Tank being convened, is that several publications have appeared in the last 4 years regarding the topic. For example, Walsh et al. 18 studied 50 women with refractory idiopathic DO over 2 years who were asked to provide an MSU whenever their OAB symptoms worsened—none of these patients had dysuria or foul smelling urine, just increased frequency/urgency/nocturia with or without urgency incontinence. Overall, 39% of their MSU samples revealed bacteriuria, compared to 6% of a control group of 50 women with no OAB symptoms. As regards only "low count bacteriuria," 17% of the Refractory IDO group versus 2% of the control group showed this finding. Pyuria occurred in 84% of traditional bacterial cystitis versus 23% of the low count bacteriuria specimens.

Because of the argument regarding the need for CSU, rather than MSU, the same authors³¹ went on to study CSUs, taken at urodynamic testing, from patients with newly diagnosed idiopathic DO versus other types of incontinence (n=161), compared with CSU taken from 75 continent women at the time of hysteroscopy or laparoscopy for routine gynecological conditions who had no OAB symptoms. This revealed an odds ratio of 5.2 for any bacteriuria in the incontinent group versus continent controls, which was particularly true for patients with pure DO (odds ratio 6.4) The same authors performed another study of catheter specimens of patients with refractory IDO (partly to measure levels of ATP after stretch by 50 ml of instilled fluid) which revealed bacteriuria >10³ cfu/ml in 27% of these refractory patients.³²

Contemporaneously, another group in London was investigating the problem of refractory DO from the perspective of bladder biopsies. Digesu et al. 10 studied 106 women with refractory IDO by bladder biopsy; histopathological analysis