Binitha Kunnel, Usha Vasa, Edward Poole. UroCor Inc., Oklahoma City, OK. Background: Stratification of patients (pts) with regard to age, serum prostate-specific

antigen (psa), digital rectal examination (DRE), and previous bx findings is necessary before rates for repeat prostate biopsies (pbxs) are determined. The purpose of this

work was to analyze the results of rebxs of the prostate following a negative 1st pbx.

and May 1997. Cases were selected if their 1st pbx was negative [no prostate cancer (PCa), no acini suspicious for cancer (Susp) and no high grade prostatic intraepithelial neoplasia (PIN)]. Five psa values > 100 ng/ml were not included in the psa calculations. Results: Of 37619 negative 1st pbxs, 2237 cases had a 2nd bx and 228 had a 3rd bx.

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N/A: not available, A: all pts, B: all pts with psa  $\leq 10$ , C: pts < 65 yr, and psa  $\leq 10$ , D: pts  $\geq$ 65 yr. and psa  $\leq$  10, E: pts < 65 yr. and any psa, and F: pts  $\geq$  65 yr. and any psa. Patients selected to undergo a 2nd pbx had mean f/u psa that was significantly higher than their mean pre-1st bx psa (p < 0.001). The percentage of pts with abnormal DRE that had 2<sup>nd</sup> bxs (59%)was not significantly different from that of pts with abnormal DRE (61%) that had  $3^{rd}$  bxs (p = 0.7). Of the  $3^{rd}$  bxs (mean psa = 11.6), 31 had PCa (13 of 73 susp or PIN and 18 of 155 neg 2<sup>nd</sup> bxs), 6: susp, 13: PIN, and 178 were neg. Conclusions: Although the overall positive yield of 2nd (19.3%) and 3rd (13.6%) pbxs remains relatively high for patients with 1st neg bx, the yield varied from 7 to 27% with pt stratification. In addition, pts undergoing rebxs are being selected out of a

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1st bx 2sd bx A B C D

Dre

nl

abl

N/A

All

mean

age 65.7

67.4

66.8

66.8

much larger population.

352

514

1371

2237

Pre bx psa

10.4

10.4

10.9

10.4

8.7

9.5

9.4

9.3

Design: A retrospective study was conducted on rebxs performed between April 1995

Positive rate (%)

23 21 13 27 16 27

13 19

11 22

20 10 21

14 21

Diagnoses

261

360

62 1012

99 1633

Pca Susp PIN Neg

60 12

117 19

255 42

432 73

THE YIELD OF REPEAT PROSTATE BIOPSIES. Roberto Orozco.