

Appendix A

Bacterial Culture Strategy

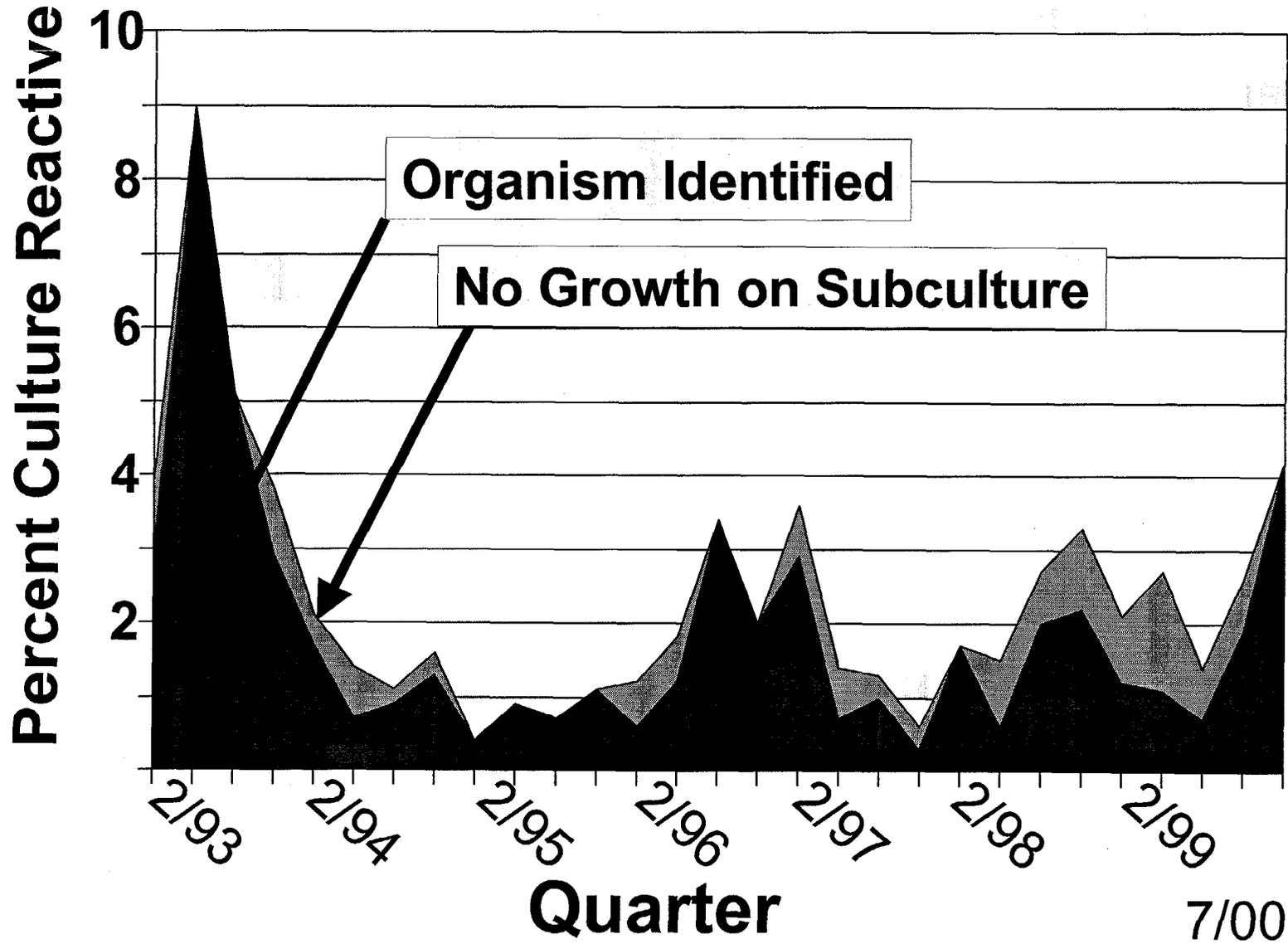
ESP Blood Culture System

Aerobic and Anaerobic: 7 + 7 days

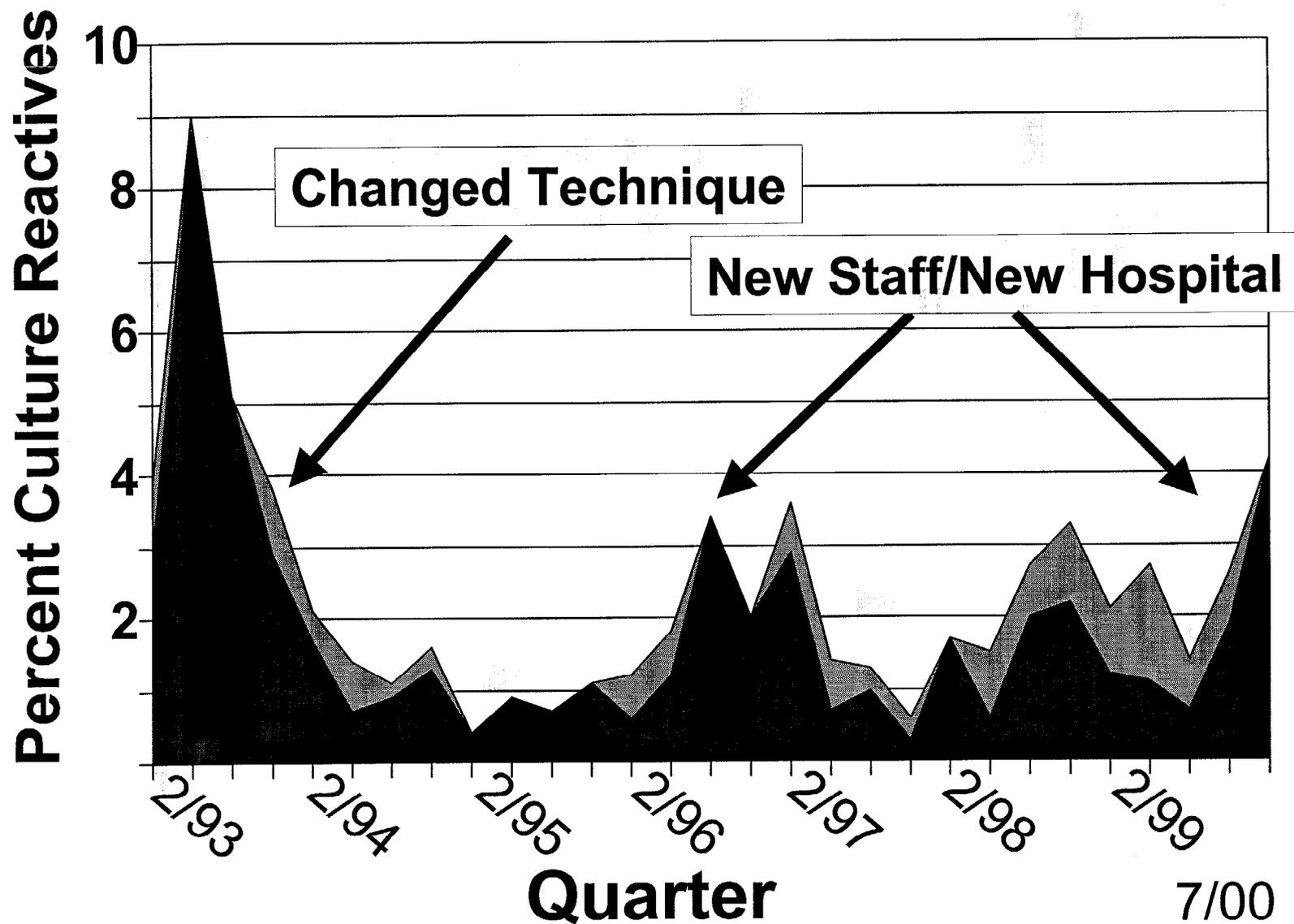
Subculture for Identification/Sensitivity

Evaluation of Stage in Processing

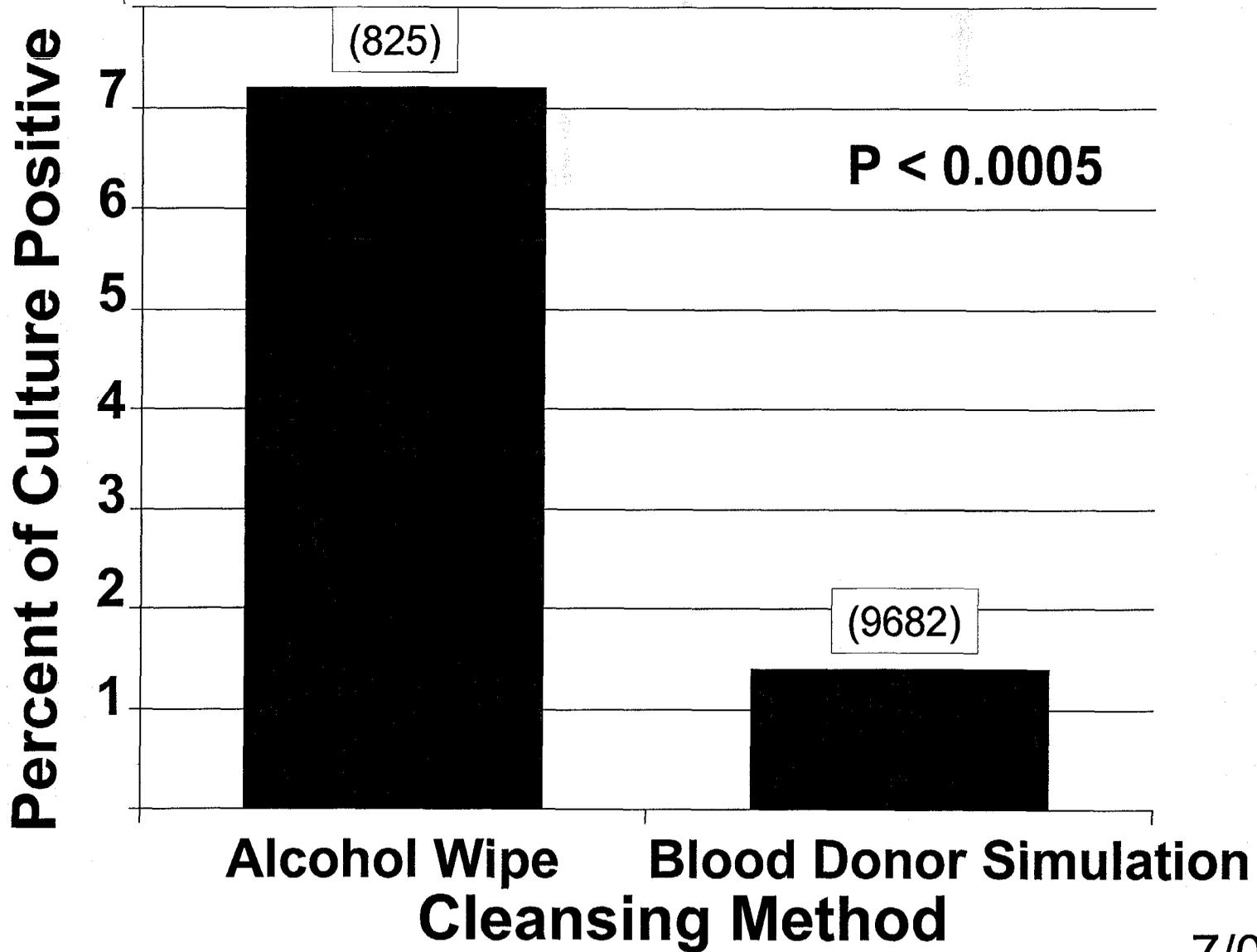
Placental/Cord Blood Bacterial Cultures



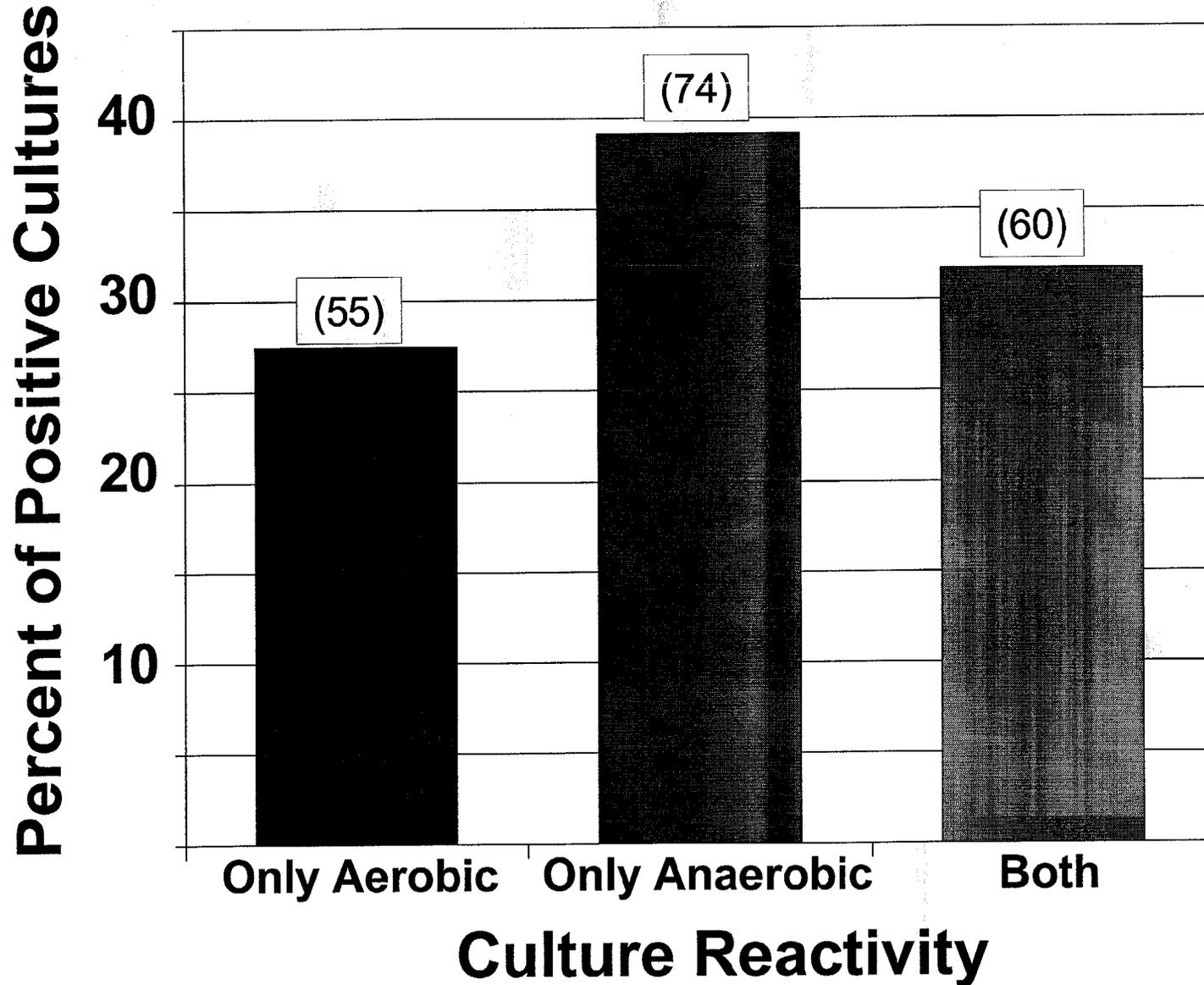
Placental/Cord Blood Bacterial Cultures



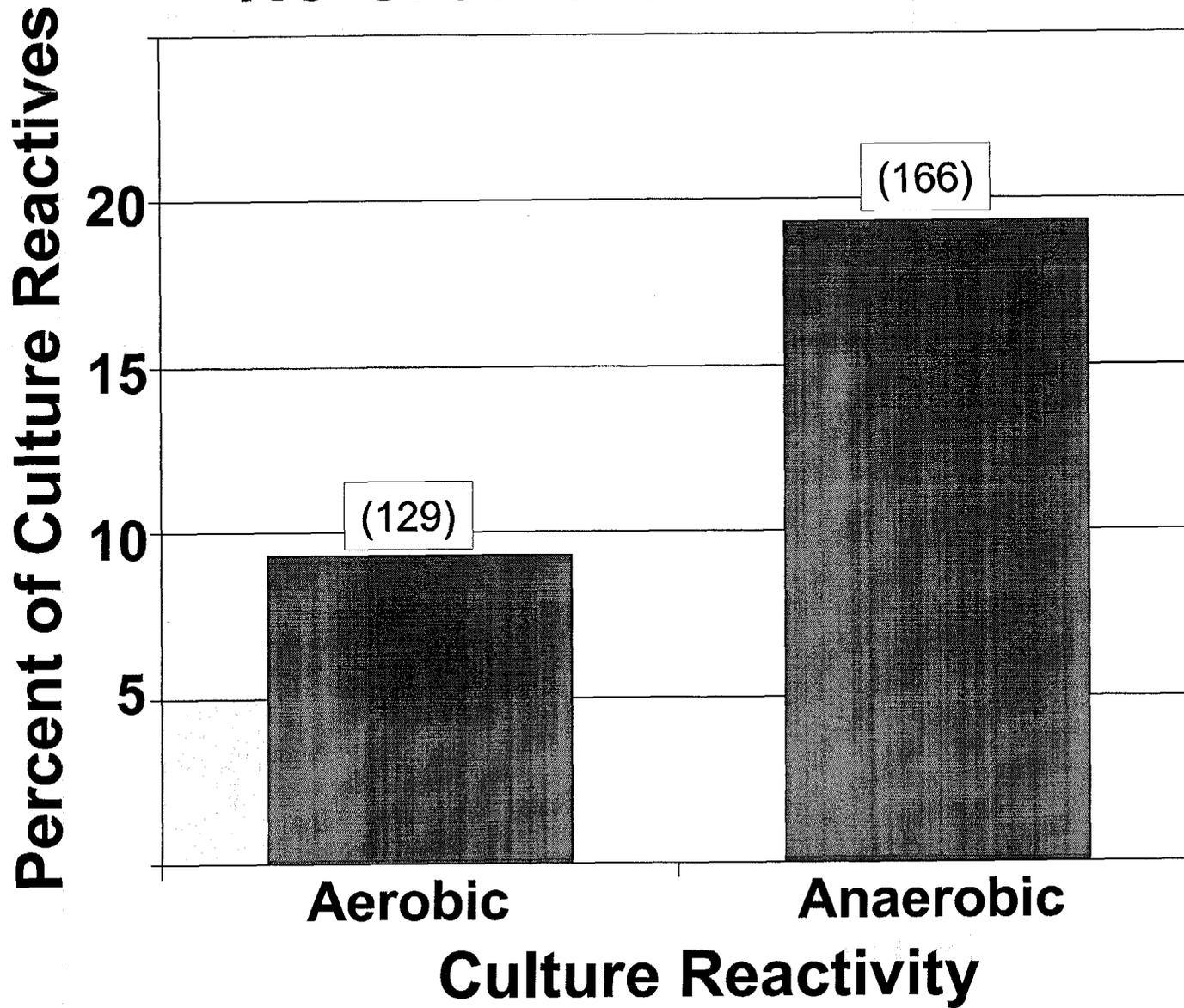
Culture Positivity Rate by Cord Cleansing Technique



Percent of Confirmed Positives



No Growth on Subculture



Number of Organisms

	<u>Aerobic</u>	<u>Anaerobic</u>
1	97	120
2	14	14
3	4	1
4	1	0

Most Common Organisms

Aerobic

Enterococcus (40)

Streptococcus (25)

Pseudomonas (10)

Diphtheroids (7)

Staphylococcus (6)

Lactobacillus (6)

Anaerobic

Enterococcus (28)

Bacteroides (24)

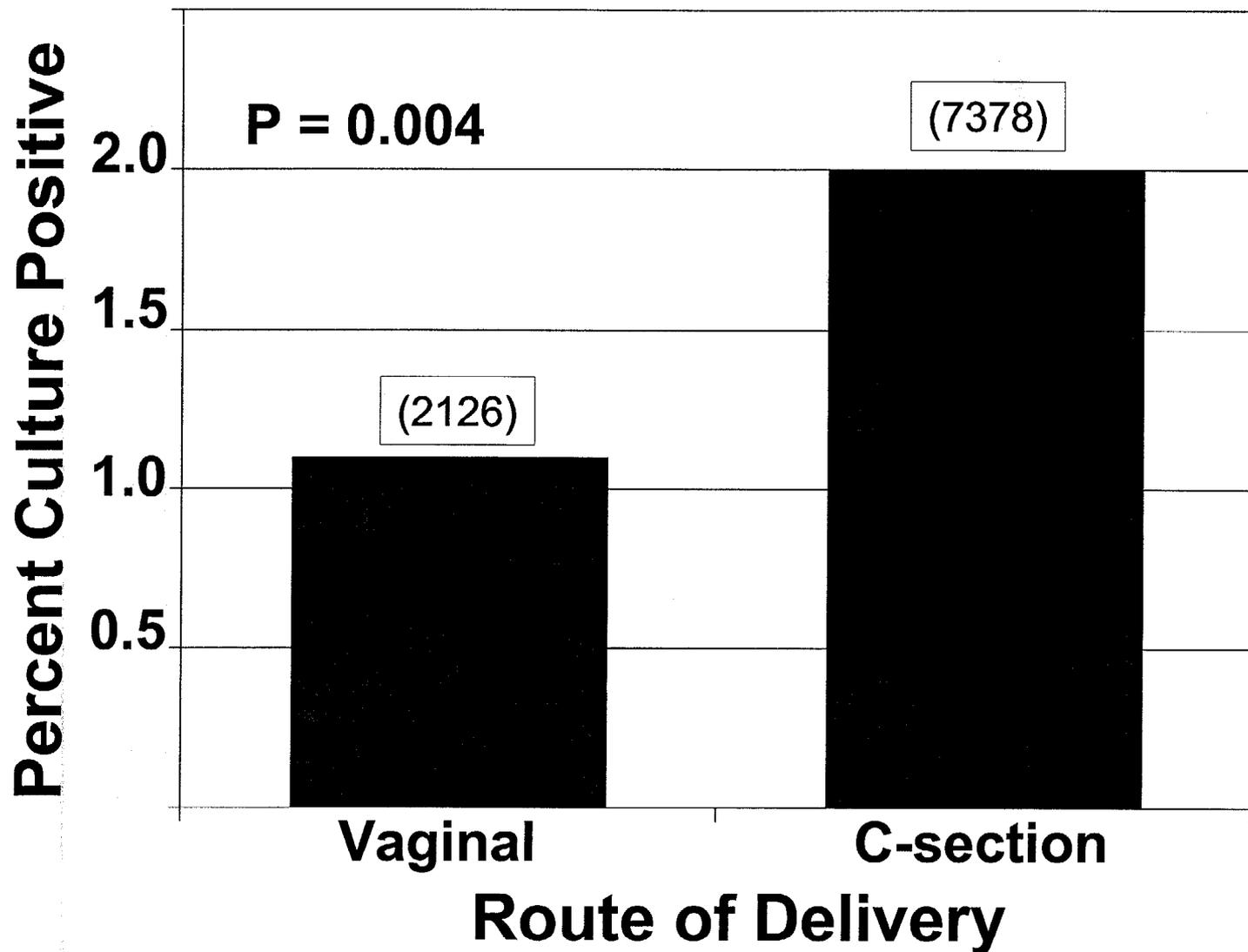
Streptococcus (19)

Peptostrep. (12)

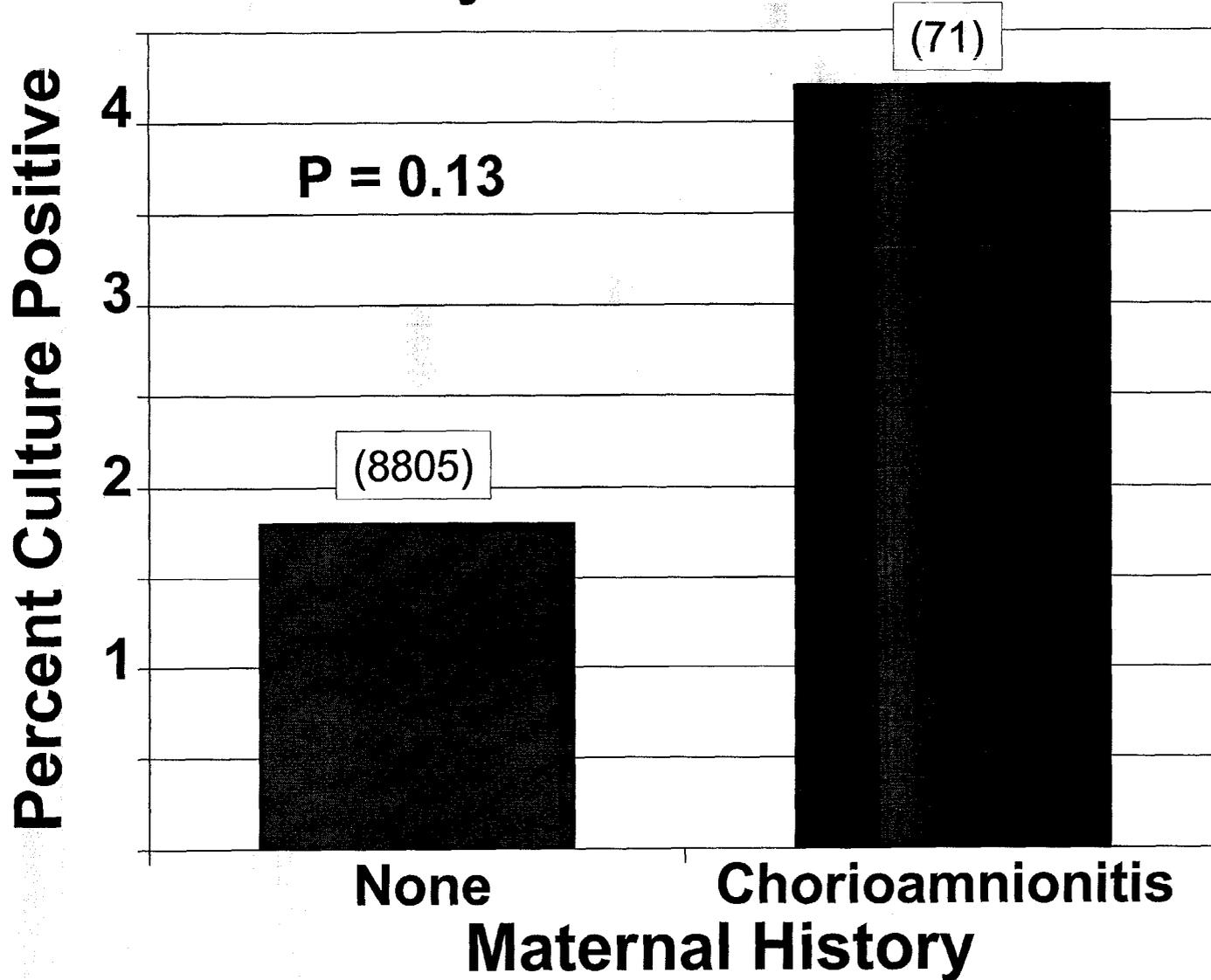
Propionib. (12)

Lactobacillus (12)

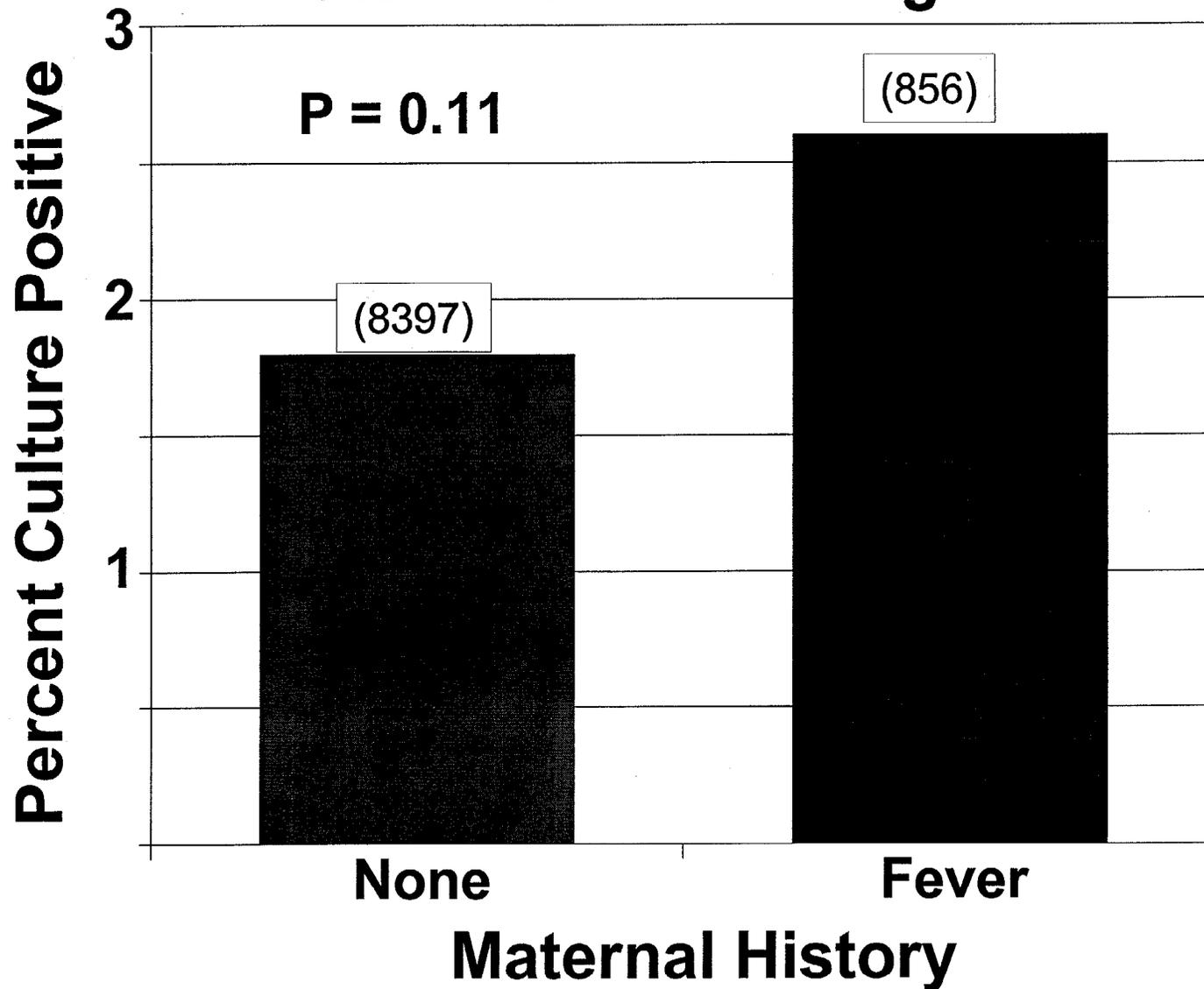
Culture Positivity Rate by Route of Delivery



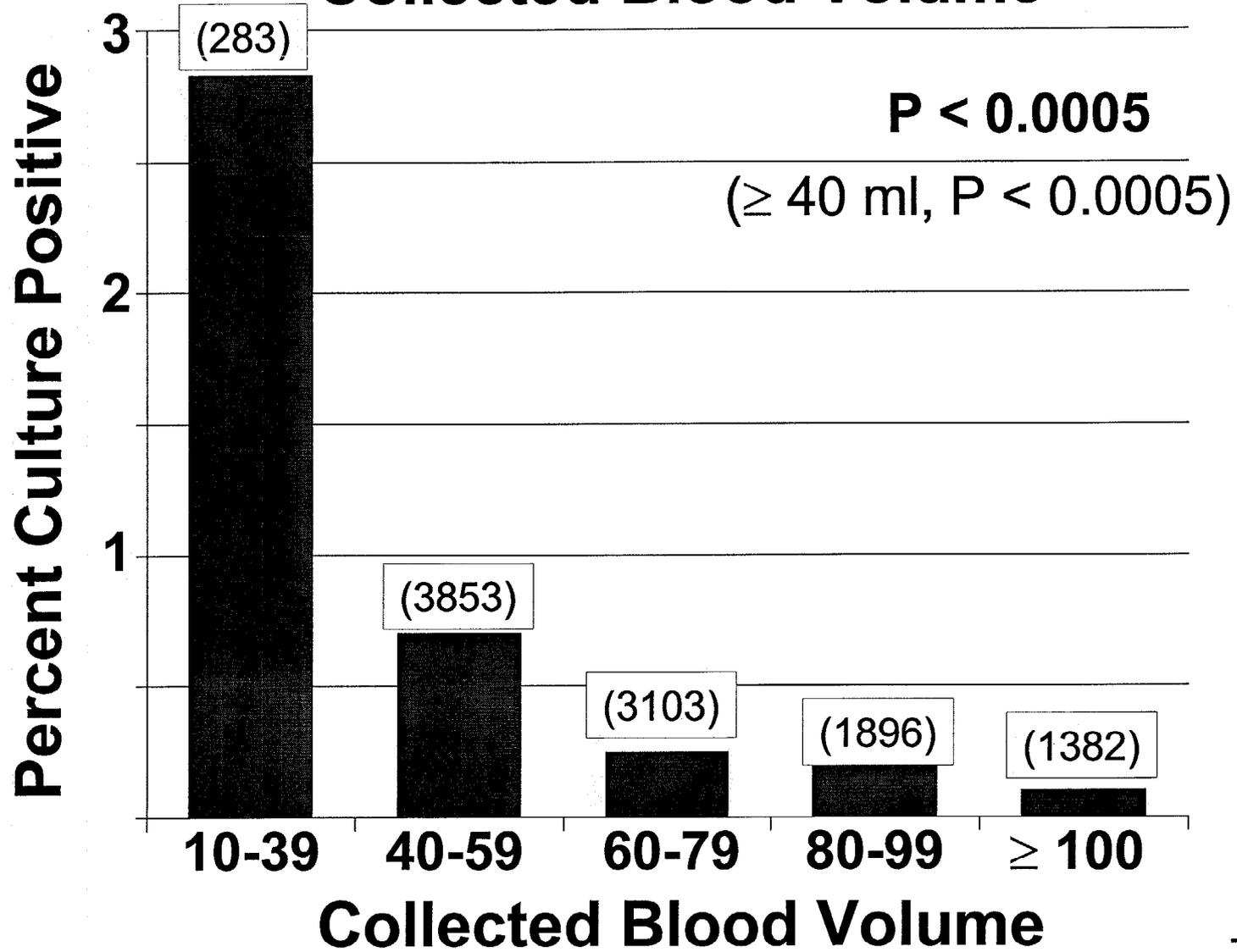
Culture Positivity Rate by History of Chorioamnionitis



Culture Positivity Rate by Maternal Fever During Labor



Culture Positivity Rate by Collected Blood Volume



**Culture Positivity Rate
in 643 PCBs Cultured on Whole
Blood and Pre-DMSO**

Time of Specimen	No. Positive (%)
Pre-Proc.WB Only	2 (0.3)
Pre-DMSO Only	10* (1.6)
Both Times	5 (0.8)

* 5 = Proprionib. acnes

**Culture Positivity Rate
in 1882 PCBs Cultured on Whole
Blood and Post-DMSO**

Time of Specimen	No. Positive (%)
Pre-Proc.WB Only	11 (0.6)
Post-DMSO Only.	12 (0.6)
Both Times	13 (0.7)

**Culture Positivity Rate
in 356 PCB Cultured on Whole
Blood and Post-Proc. Plasma**

Time of Specimen	No. Positive (%)
Pre-Proc.WB Only	3 (0.8)
Plasma Only	1 (0.3)
Both Times	3 (0.8)

Culture Positivity

Pre-freeze and Post-thaw

Pre-freeze Culture	No. Tested	No. Positive Post-thaw
Negative	582	8
Positive	4	2
No Growth*	5	0

* on subculture

Conclusions

- Cord Cleansing Technique Important
- Aerobic and Anaerobic Culture Needed
- Unconfirmed “Culture Positives”:
Sensitivity of Assay vs.
Contamination of Culture Bottle?
- No Growth on Subculture Probably
False Positive Reactivity