

Table 1. The Bacterial Flora of Eleven Wounds During the First Week of Healing

Patient No.	Time-Lag Interval to Surgery	Antibiotic Hours Prior to Surgery	Wounding Agent	1st Hospital Day		3d Hospital Day		4th Hospital Day		5th Hospital Day		6th Hospital Day		7th Hospital Day		8th Hospital Day		
				Anaerobes	Aerobes*	Anaerobes	Aerobes	Anaerobes	Aerobes	Anaerobes	Aerobes	Anaerobes	Aerobes	Anaerobes	Aerobes	Anaerobes	Aerobes	Anaerobes
1	4 hrs.	300,000 units penicillin 2.5 hrs.	small arms	none isolated	Strep. beta Corynebact. sp. Staph. H+S+M-C- Staph. H+S+M+C+	none isolated	Strep. beta Strep. alpha Bacillus sp.			<i>Cl. novyi</i>	<i>Pt. aeruginosa</i> Paracolon sp. Strep. alpha Bacillus sp.			not examined				
2	9 hrs.	300,000 units penicillin 7.5 hrs.	shell fragments	<i>Cl. novyi</i>	Strep. H- Bacillus sp.	none isolated	Strep. beta			none isolated	<i>Corynebact. sp.</i> Strep. beta Staph. H+S+M+C+		none isolated	Strep. beta <i>E. coli</i>				
3	6 hrs.	300,000 units penicillin 3 hrs.	small fragment	<i>Cl. perfringens</i> <i>Cl. bifermentans</i> <i>Cl. paraputrificum</i>	Strep. beta Strep. H- <i>Serratia lutea</i>	<i>Cl. novyi</i> <i>Cl. perfringens</i> <i>Cl. sporogenes</i>	Strep. beta Strep. H- Bacillus sp. <i>E. coli</i> Strep. alpha			<i>Cl. sporogenes</i> <i>Cl. bifermentans</i>	Strep. H- Strep. alpha Bacillus sp.	<i>Cl. perfringens</i>	Strep. H- Strep. alpha		<i>Cl. novyi</i> <i>Cl. sporogenes</i>	Strep. H-		
4	2 hrs.	600,000 units penicillin 2.5 hrs.	small fragment	Devitalized Muscle: <i>Cl. bifermentans</i> <i>Cl. novyi</i> <i>Cl. multiformans</i> <i>Cl. sporogenes</i> <i>Cl. paratuberculosis</i> Muscle After <i>Cl. tetani</i> <i>Cl. imitatorum</i> <i>Cl. sporogenes</i>	Strep. H- Dérubridement: Strep. H- Bacillus sp. Staph.	<i>Cl. sporogenes</i> <i>Cl. bifermentans</i>	none isolated			<i>Cl. sporogenes</i> <i>Cl. bifermentans</i> <i>Cl. multiformans</i> <i>Cl. tetani</i> <i>Cl. ornithi</i>	Bacillus sp.			<i>Cl. novyi</i>	Staph. H+S+M+C- Strep. H- Bacillus sp.	not examined		
5	10 hrs.	no record	mortar fragments	Devitalized Muscle After <i>Cl. perfringens</i> none isolated	Strep. H- Bacillus sp. Dérubridement: Strep. beta Strep. H- Staph. H+S+M+C- Bacillus sp.	none isolated	Strep. beta Strep. H- Bacillus sp. Staph. H+S+M+C-					none isolated	Bacillus sp.			none isolated	Staph. H+S+M+C-	
6	6 hrs.	300,000 units penicillin 4 hrs.	shell fragments	Devitalized Muscle: <i>Cl. tetani</i> <i>Cl. sporogenes</i> <i>Cl. novyi</i> <i>Cl. paraputrificum</i> <i>Cl. imitatorum</i> Muscle After <i>Cl. butyricum</i>	Strep. H- Strep. alpha Corynebact. sp. Dérubridement: Strep. beta Staph. H+ Bacillus sp.	none isolated	Bacillus sp.					none isolated	Bacillus sp.			none isolated	Strep. H- <i>Pt. aeruginosa</i>	
7	6.5 hrs.	300,000 units penicillin 3.5 hrs.	shell fragments	<i>Cl. perfringens</i> <i>Cl. ordalii</i> <i>Cl. butyricum</i> <i>Cl. bifermentans</i>	Strep. H- Bacillus sp.	<i>Cl. ordalii</i>	<i>A. aerogenes</i>				<i>Cl. perfringens</i> <i>Cl. bifermentans</i> <i>Cl. aerobutyrum</i> <i>Cl. butyricum</i>	<i>E. coli</i>			none isolated	Strep. beta H+ Bacillus sp. <i>Serratia marcescens</i>		
8	6 hrs.	300,000 units penicillin 5 hrs.	land mine	Devitalized Muscle: <i>Cl. paraputrificum</i> none isolated	Staph. H+S+M-C- Bacillus sp. Corynebact. sp. Dérubridement: Strep. beta Staph. H- Staph. H-S+M+C-	none isolated	Strep. beta Strep. H- Staph. H-S+M+C-			none isolated	Strep. beta Staph. H+S-M-C- Bacillus sp. Strep. H		none isolated	Strep. beta Staph. H+S+M+C-				
9	6 hrs.	300,000 units penicillin 5.5 hrs.	hand grenade	<i>Cl. ornithi</i> <i>Cl. butyricum</i>	Bacillus sp. Strep. H-			none isolated				none isolated	Bacillus sp.			none isolated	Staph. H+S+M-C- Bacillus sp. Staph. H+S+M+C+ Staph. H-S+M+C+	
10	4 hrs.	no record	shell fragments	Devitalized Muscle: Bacillus sp. Staph. H+S+M+C+ Muscle After none isolated	Dérubridement: Staph. H+S+M+C+ Dérubridement: none isolated			none isolated	Bacillus sp. Strep. H-			none isolated	Staph. H+S+M+C-			9th Hospital Day		
																none isolated	Anaerobes	
																	Staph. H+S+M+C- Bacillus sp. Strep. H-	Aerobes
11	3 hrs.	300,000 units penicillin 2.5 hrs.	mortar fragments	Devitalized Muscle: <i>Cl. sporogenes</i> <i>Cl. imitatorum</i> Muscle After none isolated	Staph. Bacillus sp. Strep. H- Dérubridement: Staph. H+S+M-C-	none isolated	Strep. alpha Strep. beta Bacillus sp. Corynebact. sp.			none isolated	none isolated		none isolated	Bacillus sp.				

H+, hemolytic
H-, nonhemolytic
S+, salt-resistant
S-, salt-nonresistant
M+, mannite-fermenting
M-, mannite-nonfermenting
C+, coag.-positive
C-, coag.-negative