

**YOUR
TREATMENT
RESULTS**

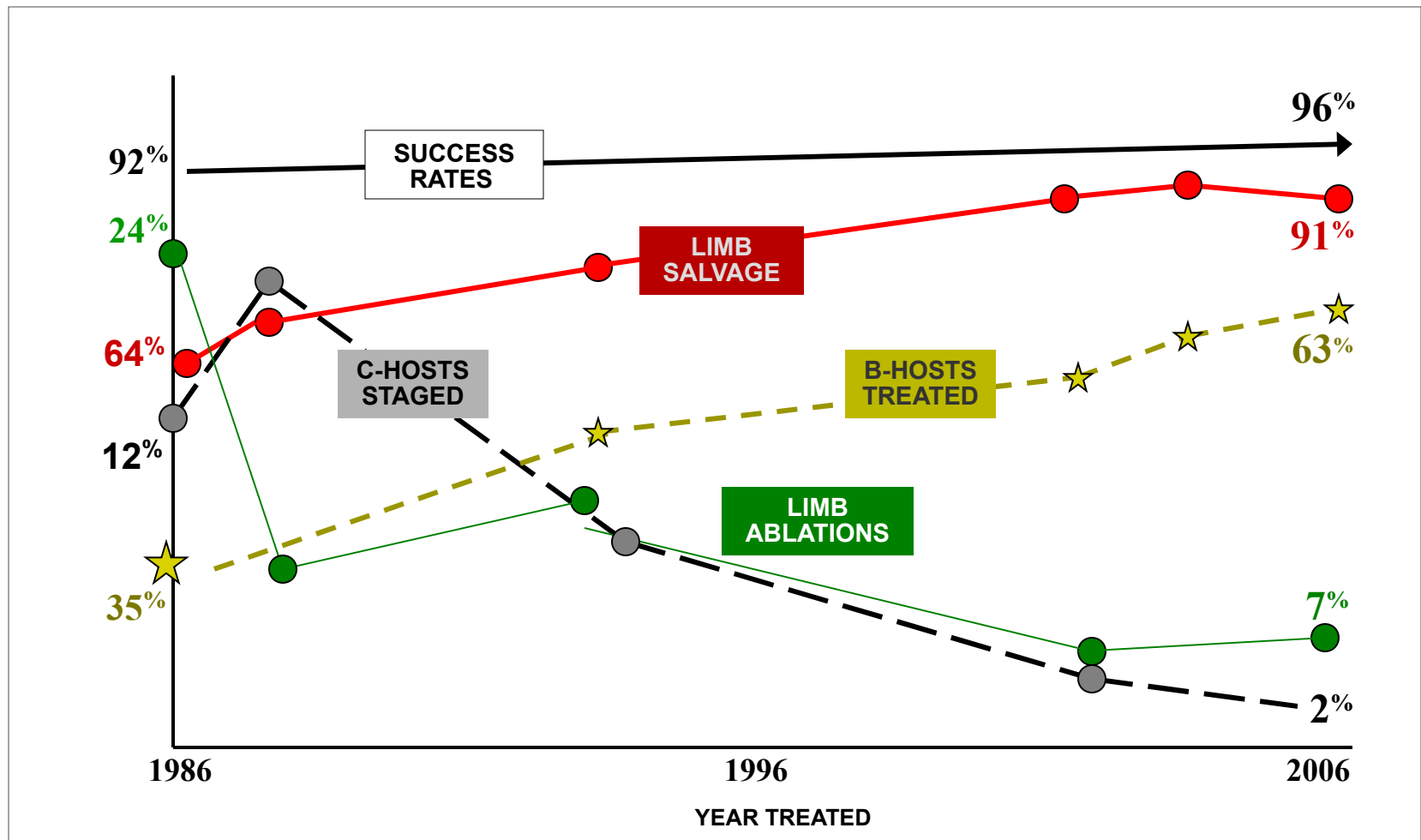
**OUTCOMES
FOR 2301 PATIENTS**

(Tx 1981 – 2009)

**GALVESTON, TX; ATLANTA, GA
SAN DIEGO, CA**

OSTEOMYELITIS:

Treatment Outcomes and Trends (1986 - 2006)



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Experience, advances in technology and new pharmaceuticals have broadened the selection criteria for limb-salvage protocols. Over the last twenty years, our success rates have remained relatively constant despite there being a significant increase in both the percentage of B-hosts operated and the actual number of patients offered limb salvage vs ablation or palliation (C-hosts).

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314 BONE DEFECTS:

Methods of Reconstruction (2003 – 2008)

INTERNAL FIXATION
ALLOGRAFTS
PROSTHETIC JOINTS

32%

METHODS
OF ILIZAROV

25%

CANCELLOUS
BONE GRAFTS

16%

VASCULARIZED
BONE GRAFTS

11%

PERMANENT
ACRYLIC SPACERS

8%

PERI-PROSTHETIC TOTAL JOINT INFECTIONS

(No. 194)

1996-2007		
<u>TOTAL JOINTS</u>	<u>NO</u>	<u>%</u>
Hip	73	38
Knee	109	56
Shoulder	8	4
Elbow	4	2

176 REVISION ARTHROPLASTIES		
(1996-2007)		
<u>PATIENT COHORT</u>	<u>NO</u>	2yr <u>SUCCESS</u>
A-host	55	97%
B-host	121	87%

< 3 co-morbidities	94	93%
≥3 co-morbidities	<u>27</u>	66%
	121	

PERI-PROSTHETIC TOTAL JOINT INFECTIONS

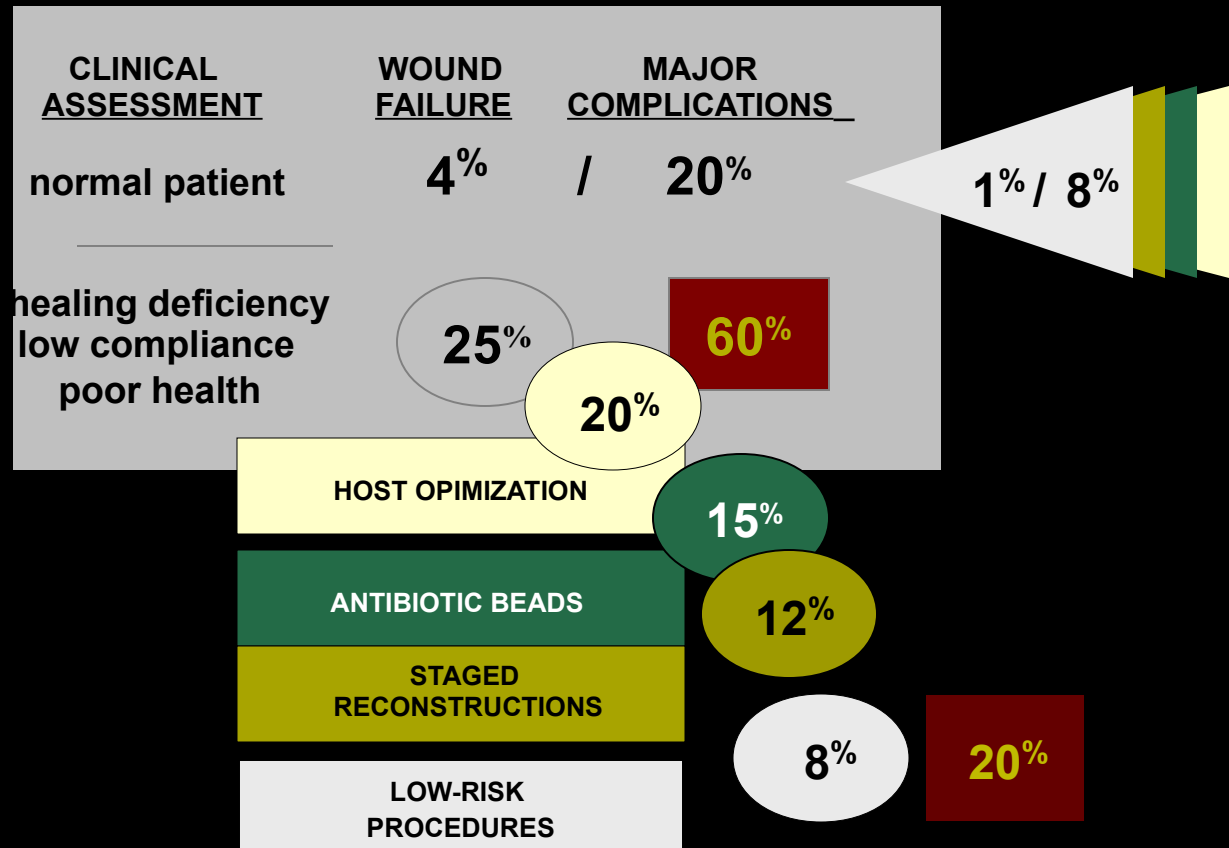
(No. 194)

Of the 194 late-occurring, peri-prosthetic infections treated at our center, there were 176 revision arthroplasties, 8 primary fusions, 4 primary amputations and 3 patients treated palliatively. Of the 18 overall treatment failures, 50% occurred in patients (B-hosts) with 3 or more co-morbidities affecting wound healing. The overall success rate was 90%, for the 176 revision protocols.

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PROTOCOLS AFFECTING PATIENT OUTCOMES

(1981 – 2006)



ALTERING PATIENT OUTCOMES

(1981 – 2006 PROTOCOLS)

Methods and surgical principles used over the last 25 years to improve outcomes in all patients treated for infection. Although the results have improved for normal patients, the increase in success rates and the decrease in complications in patients with wound-healing disturbances is statistically significant.

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2207 TREATMENT CANDIDATES: 1981-2007

(success at ≥ 2 years)

<u>Stage</u>	<u>SUCCESS RATE</u>	<u>Stage</u>	<u>SUCCESS RATE</u>
IA (51)	100%	IB (71)	94% (4)
IIA (88)	100%	IIB (194)	89% (21)
IIIA (209)	97% (6)	IIIB (139)	95% (7)
IVA (595)	99% (6)	IVB (860)	90% (89)
(943)		(1264)	
	99%		90%

2207 TREATMENT CANDIDATES

(success at ≥ 2 years)

The treatment success rates for A-hosts (normal) is now 99%. Using the methods shown above, the 2-year failure rate for B-hosts (compromised) has decreased with time / experience from 25% to 10% and the complication rate from 60% to 20% despite a B-host cohort of 57%.

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