http://dx.doi.org/10.2106/JBJS.M.01186

Fig. E-1A

Fig. E-1B

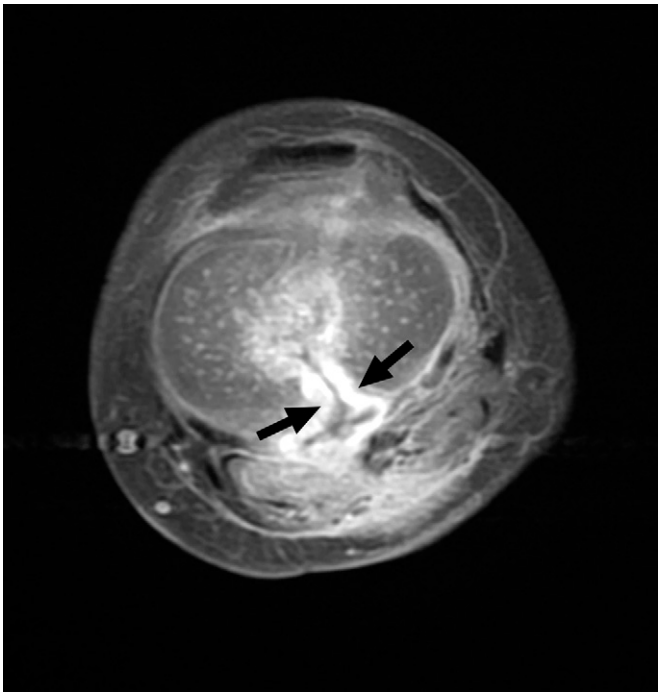

Fig. E-1C

Figs. E-1A through E-1D Images of Case 5, tuberculous osteomyelitis of the proximal tibial epiphysis in a girl with symptom onset at the age of twenty months. **Fig. E-1A** T1-weighted MRI shows a decreased signal intensity in the epiphysis of the proximal aspect of the tibia. **Figs. E-1B and E-1C** Despite surgical curettage and combination chemotherapy of isoniazid, rifampicin, and pyrazinamide for six months, the epiphyseal abscess extended to the metaphysis through the physis (**Fig. E-1B,** arrow), into the joint, and to the extra-articular soft tissues through the epiphyseal draining sinus (**Fig. E-1C,** arrows) at the posterior aspect of the epiphysis.

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Fig. E-1D

Infection was eventually controlled, but physeal damage was evident on follow-up MRI (fat-suppressed T1-weighted image with gadolinium enhancement) at two years after initial surgery.

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TABLE E-1 Previously Reported Cases of Primary Epiphyseal Osteomyelitis*

Authors (Yr)	Pathogens		Mode of Disease Onset
	Category	Organisms†	
Green et al. (1981)[11]	Bacterial	*S. aureus* (2), NI (6)	Subacute
Lindenbaum and Alexander (1984)[17]	Bacterial	Streptococcus (1), *K. kingae* (1)	Subacute
Andrew and Porter (1985)[6]	Bacterial	*S. pneumoniae* (1), NI (2)	Subacute
Rosenbaum and Blumhagen (1985)[1]	Bacterial	*H. influenzae* (2), *S. aureus* (1), *S. pneumoniae* (1), NI (6)	Subacute
Azouz et al. (1993)[7]	Bacterial	*S. aureus* (3), Streptococcus (1), NI (4)	Subacute
Hempfing et al. (2003)[13]	Bacterial	*S. aureus* (1), *S. pneumoniae* (1), *P. aeruginosa* (1)	Subacute
Kramer et al. (1986)[16]	Bacterial	*S. aureus* (1)	Acute
Gibson et al. (1991)[10]	Bacterial	*S. aureus* (1)	Acute
Longjohn et al. (1995)[18]	Bacterial	*S. aureus* (1), NI (1)	Acute
Kao et al. (2003)[14]	Bacterial	*S. aureus* (1), *S. enteritidis* (1)	Acute
Abdelgawad et al. (2007)[5]	Bacterial	Salmonella type B (1)	Acute
Sorensen et al. (1988)[22]	Bacterial	*S. aureus* (1), NI (2)	NR
Nissen et al. (2001)[23]	Fungal	*C. albicans* (1)	NR
Hayek et al. (2003)[12]	Mycobacterial	Nontuberculous mycobacterium (1)	Subacute
Peltola et al. (1984)[26]	Mycobacterial	*M. bovis* (BCG) (1)§	NR
Rasool et al. (1994)[25]	Mycobacterial	Tuberculosis (2)#	NR
Gardner and Azouz (1988)[9]	Mycobacterial (1), NR (1)	Tuberculosis (1)**, NR (1)	NR for tuberculosis case (1), acute (1)
King and Mayo (1969)[15]	NR	NR	Subacute
Ross and Cole (1985)[21]	NR	NR	Subacute
Rasool (2001)[20]	NR	NR	Subacute
Ezra et al. (2002)[8]	NR	NR	Subacute
Mehdinasab et al. (2007)[19]	NR	NR	Subacute

*Numerals in parentheses = number of cases. NI = not identified, and NR = no record. †*S. aureus* = *Staphylococcus aureus, K. kingae* = *Kingella kingae, S. pneumoniae* = *Streptococcus pneumoniae, H. influenzae* = *Haemophilus influenzae, P. aeruginosa* = *Pseudomonas aeruginosa, S. enteritidis* = *Salmonella enteritidis, C. albicans* = *Candida albicans, M. bovis* = *Mycobacterium bovis*, and BCG = bacille Calmette-Guérin. ‡DF = distal aspect of the femur, PT = proximal aspect of the tibia, PF = proximal aspect of the femur, DT = distal aspect of the tibia, PH = proximal aspect of the humerus, GT = greater trochanter, DR = distal aspect of the radius, and DH = distal aspect of the humerus. §Four cases of epiphyseal osteomyelitis were reported, but only one case was confirmed as BCG osteomyelitis of the epiphysis. #Diagnosis was made by histologic examination. **Description of diagnostic methods was not available.

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TABLE E-1 (*continued*)

Patient Data					
No.	Age Range *(yr)*	Sex (M:F)	Site†	Treatment	Complications
8	2-4	4:4	DF (5), PT (2), PF (1)	Surgery and antibiotics	None
2	2.6-4.2	1:1	DF (2)	Surgery and antibiotics	None
3	3.5-9	0:3	DF (2), DT (1)	Antibiotics	None
9 (10 cases)	1.8-9	8:1	DF (7), PT (2), PH (1)	Antibiotics	NR
8	1.8-10	4:4	DF (5), GT (2), PF (1)	Surgery and antibiotics	NR
3	2-7	1:2	DF (2), PF (1)	Surgery and antibiotics	Physeal involvement without growth disturbance (2)
1	11	1:0	DF (1)	Surgery and antibiotics	NR
1	6	1:0	DF (1)	Antibiotics	None
2	2-4.2	1:1	DF (1), PT (1)	Surgery and antibiotics	NR
2	2.3	1:1	DF (2)	Surgery and antibiotics	None
1	1.4	1:0	DF (1)	Surgery and antibiotics	Physeal involvement without growth disturbance
3	1.7-4	3:0	PT (2), DF (1)	Surgery and antibiotics (2), antibiotics (1)	Physeal involvement without growth disturbance (1)
1	0.6	NR	DF (1)	Surgery and antifungal agent	None
1	10	0:1	DF (1)	Rifampicin and clarithromycin	None
1	1.5	NR	PF (1)	Medication	Coxa magna and hip subluxation
2	3-8	1:1	DF (1), DR (1)	Antituberculosis medications	None (1), NR (1)
2	13	0:1 (tuberculosis), NR (1)	DF (2)	NR	NR
2	NR	NR	DF (1), DT (1)	Surgery and antibiotics	None
5	NR	NR	NR	Antibiotics with or without surgery	None
2	NR	NR	DF (1), PF (1)	NR	None
16	1-7.5	10:6	DF (8), GT (3), PH (2), DT (1), PF (1), DH (1)	Antibiotics	Physeal damage without growth disturbance (8)
2	4-14	1:1	GT (2)	Antibiotics	None