

TABLE E-1 Characteristics of the Included Studies							
Authors	Study Design	Year	Surgery	No. of Patients (Reduction/in Situ Arthrodesis)	Mean Age (yr)	Mean Follow-up (yr)	CMS
Bourghli et al. ³⁰	Prospective	2011	Reduction: TLIF and pedicle screws with bone packing or cage. In situ arthrodesis: TLIF and pedicle screws with bone packing or cage	27/3	43	2.5	59
Gong et al. ²⁹	Retrospective	2010	Reduction: TLIF and pedicle screws. In situ arthrodesis: Trans-sacral cage arthrodesis and pedicle screws	21/13	45 (R), 47 (A)	2.5 (R), 2.3 (A)	53
Poussa et al. ²⁸	Retrospective	2006	Reduction: circumferential arthrodesis and pedicle screws. In situ arthrodesis: circumferential spinal arthrodesis without instrumentation	11/11	14.7	14.8	64
DeWald et al. ¹⁹	Retrospective	2005	Reduction: circumferential arthrodesis and pedicle screws. In situ arthrodesis: circumferential arthrodesis and pedicle screws	16/4	33 (R), 35 (A)	6.6	54
Molinari et al. ²¹	Retrospective	1999	Reduction: circumferential arthrodesis (19) or PLF (6) and pedicle screws. In situ arthrodesis: PLF without (11) or with (1) pedicle screws	25/12	13.5	3.1	54
Muschik et al. ³²	Retrospective	1997	Reduction: circumferential arthrodesis and pedicle screws. In situ arthrodesis: ALIF without instrumentation	30/29	14	5.6 (R), 10.4 (A)	62
Poussa et al. ¹⁸	Retrospective	1993	Reduction: circumferential arthrodesis and pedicle screws. In situ arthrodesis: circumferential spinal arthrodesis without instrumentation	11/11	14.9	5	59
Burkus et al. ³¹	Retrospective	1992	Reduction: PLF without instrumentation. In situ arthrodesis: PLF without instrumentation	24/18	14	8.8	59

*CMS = Coleman Methodology Score, TLIF = transforaminal lumbar interbody arthrodesis, R = reduction, A = arthrodesis in situ, PLF = posterolateral arthrodesis, and ALIF = anterior lumbar interbody arthrodesis.

TABLE E-2 Mean Radiographic Measurements in the Included Studies*													
Authors	Procedure	Slippage (% or grade)			Slip Angle (deg)			Lumbar Lordosis (deg)		Sacral Inclination (deg)		Lumbosacral Angle (deg)	
		Pre.	Post.	F/U	Pre.	Post.	F/U	Pre.	F/U	Pre.	F/U	Pre.	F/U
Bourghli et al. ³⁰	R	III-V	0-II	—	—	—	—	54	56	—	—	108	111
	A	I-III	III	—	—	—	—	49	53	—	—	111	112
Gong et al. ²⁹	R	39.1	18.6	21.1	—	—	—	43	49	—	—	80	95
	A	41.9	36.4	37.4	—	—	—	40	47	—	—	84	93
Poussa et al. ²⁸	R	93	55	57	34	14	20	69	58	—	—	—	—
	A	80	76	78	27	20	23	61	77	—	—	—	—
DeWald et al. ¹⁹	R	73	—	—	—	—	—	—	—	—	—	—	—
	A	—	—	—	—	—	—	—	—	—	—	—	—
Molinari et al. ²¹	R	III-IV	II	—	29	10	19	—	—	—	—	—	—
	A	III-IV	—	—	13	—	—	—	—	—	—	—	—
Muschik et al. ³²	R	75	23	36	36	14	—	—	—	25	32	—	—
	A	66	65	59	28	26	—	—	—	31	33	—	—
Poussa et al. ¹⁸	R	89.3	51	52.9	32.9	10.2	21.7	64	67	37.6	48.6	—	—
	A	85.7	77.2	75.5	22.7	17.9	24.4	56	75	33.5	47.7	—	—
Burkus et al. ³¹	R	55.5	—	45.9	—	—	—	—	—	—	—	—	—
	A	53.3	—	58.6	—	—	—	—	—	—	—	—	—

*Pre. = preoperative, post. = immediate postoperative, F/U = final follow-up, R = reduction, and A = arthrodesis in situ.

TABLE E-3 Complications of Surgical Management in the Included Studies*							
Authors	Year	Procedure	Pseudarthrosis	Infection	Neurologic Deficit	Instrumentation Failure	Additional Complications
Bourghli et al. ³⁰	2011	R	—	1	—	—	—
		A	—	—	—	—	—
Gong et al. ²⁹	2010	R	—	1	—	1	2 graft site pain
		A	—	—	3	—	2 dural tears
Poussa et al. ²⁸	2006	R	2	—	1	—	—
		A	—	—	2	—	—
De Wald et al. ¹⁹	2005	R	—	—	7	1	1 pulmonary embolus, 1 pancreatitis, 1 iliac vein thrombosis, 1 transient retrograde ejaculation
		A	—	—	2	—	—
Molinari et al. ²¹	1999	R	2	1	4	4	2 urinary retention, 1 dural tear
		A	5	—	—	—	2 mild superior mesenteric artery syndrome
Muschik et al. ³²	1997	R	2	—	1	—	3 regional lumbar pain
		A	7	1	1	—	6 regional lumbar pain, 1 thrombosis with post-thrombotic syndrome, 1 intraoperatively damaged iliac vein
Poussa et al. ¹⁸	1993	R	1	—	—	2	—
		A	3	—	1	—	—
Burkus et al. ³¹	1992	R	2	2	—	—	—
		A	3	2	—	—	—

*R = reduction, and A = arthrodesis in situ.