#### HINDOVACION Service Processing of Indiana Service State States Service Stat

#### PERCUTANEOUS VERTEBROPLASTY (PV) IN THE OSTEPOROTIC PATIENTS: OPTIMAL INDICATIONS AND PATIENT SELECTION TO IMPROVE CLINICAL OUTCOME PERSONAL EXPERIENCE IN 1542 PATIENTS OVER 7 YEARS EXPERIENCE

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All authors have nothing to disclose

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# PURPOSE

Patients selection, optimal indications and postprocedural management to achieve the best clinical outcome

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# Patients Pre-Procedural Evaluation

Since 2002, 2251 osteoporotic pts (1811 female, mean age 65,4±10,7 yrs), suffering from back-pain for vertebral collapses, underwent clinical interview in our Institute.

- ✓ All patients had 1 or more vertebral fracture at MRI
- ✓ Clinical palpation of fractured vertebrae evocated pain in 1860 (82,6%)
- ✓ 842 (45,3%) had pain duration <1 month
- ✓ Only 661 /2251 (29,4%) had previous medical treatment for osteoporosis by a qualified rheumatologist!

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## Patients Population

After optimal medical treatment was applied, (*from 1.5 to 3 months*), 709/2251 (*31,5%*) reported back-pain regression and scheduled PV was not performed

- ✓ 1542 pts (1302 female, mean age 73,5±9,8 yrs), not improved by medical therapy and with collapsed vertebrae at MRI (1204 with bone marrow edema), underwent to PV
- Optimal medical therapy for osteoporosis was continued in all pts by rheumatologist after PV
- ✓ Early follow-up evaluated VAS and Oswestry Disability Index at 3 months

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# Early Results (3 months follow-up)

PV was completed in all 1542 patients without major complications

1494/1542 patients (96,9%) reported backpain relief

✓ VAS from 8,2±1,8 to 1,1±1,6 (p<.0005 Wilcoxon signed test)

✓ ODI from 68,7±7,6% to 18,5±8,2% (p<.0005 t-test)

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### Long-term Results (Follow-up 72-18 months, mean 31,2±13,3)

Long-term follow-up prospectively evaluated (15 days, 1, 3, 6, 12, 18 and every 6 months) VAS, analgesic drug assumption, external brace support and new vertebral fracture occurrence in:

1017 pts (857 female, mean age 72±10,3 yrs)

All pts underwent optimal medical therapy for osteoporosis by experienced rheumatologists

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124/1017 (	12,2%) reported a r during fo	new paint Ilow-up	ful verteb	ral fracture
	New Fracture	N°	%	
	No	893	87.8	
	Yes	124	12.2	
	Distant vertebrae	42	33.9	
	Contiguous vertebrae	82	66.1	
_	Below vertebra	34	41.4	
	Above vertebra	29	35.4	
	Below and Above vertebrae	19	23.2	

Among 1017 patients, 606 ollow-up equal or longer than 18 r the patients PVP vs	women (age over nonths), with the s reported by Lin	65, 1 or more p same demogr dsay and cov	revalent fr aphic ch vorkers	actures at PV a paracteristic
Type of Pain Treatment	1 or more fracture at baseline	New Fracture During 18 months	%	γ <sup>2</sup> p-
Pts PVP Personal Series Postmenopausal Women only	606	76	12,5	values
Placebo Lindsay et al. Arch Intern Med 2004: 164:2024-2030.	353	67	18,9	0.0069
20µG Teriparatide Lindsay et al. Arch Intern Med 2004; 164:2024-2030.	373	42	11,2	0.5499
40µG Teriparatide Lindsay et al. Arch Intern Med	345	36	10,4	0.3326

