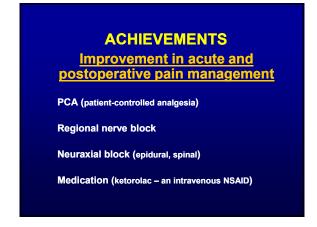
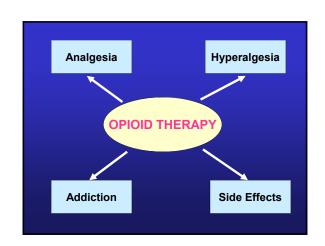


## ACHIEVEMENTS New additions to various categories of pain medications Opioid analgesics NSAIDs; COX-2 inhibitors Ion channel (Ca\*\*, Na\*) blockers Antidepressants (TCA, SSRI, SNRI) Triptan drugs (5-HT1b, 1d receptor agonists) for migraine \* Others (gabapentin, pregabalin) \*

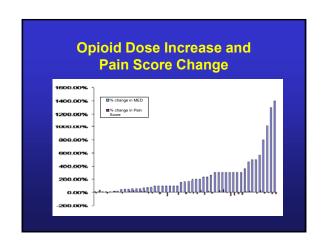


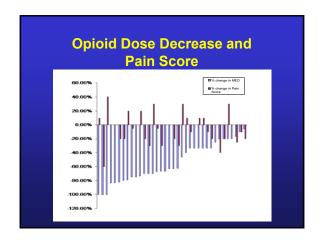




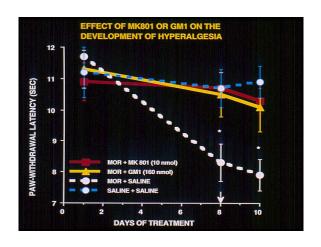
Does opioid dose
adjustment change clinical
pain score?

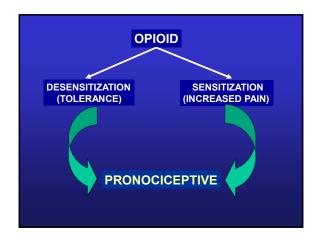
An analysis of a subgroup
of over 100 chronic pain
patients











## NEURAL & MOLECULAR MECHANISMS Dynorphin Descending faciliation Alpha-2 Adrenergic receptor Glutamatergic system

