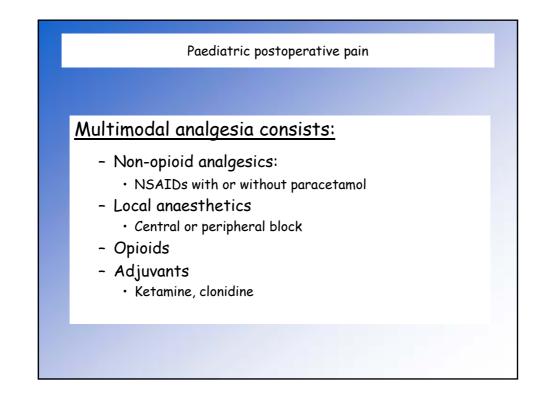
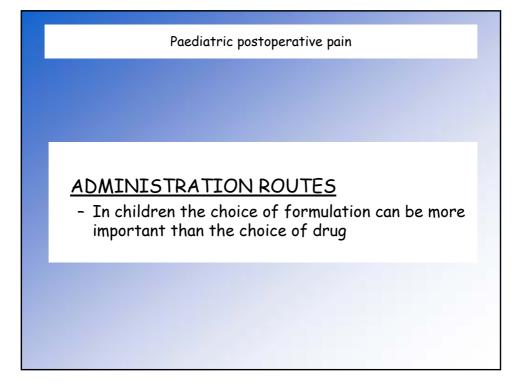


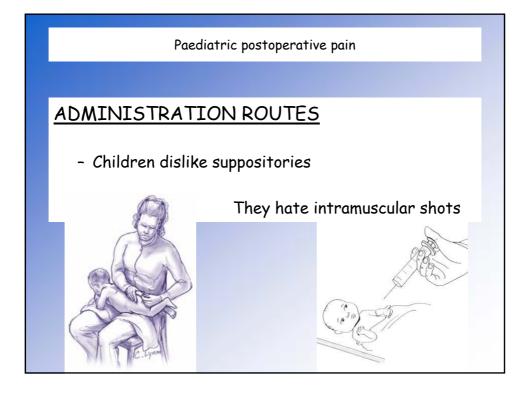


Paediatric postoperative pain

• <u>Multimodal analgesia</u> consists of a combination of analgesic regimens to provide more effective analgesia while reducing the incidence and severity of adverse events.









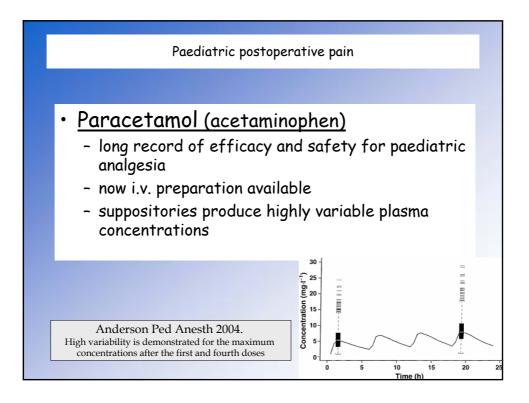
The feasibility of pain treatment at home after adenoidectomy with ketoprofen tablets in small children

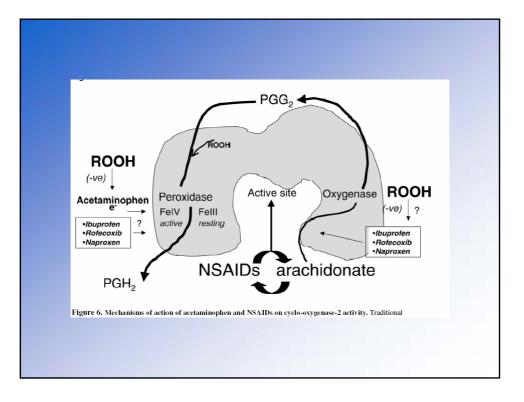
> HANNU KOKKI md*, ELINA NIKANNE md† AND RIITTA AHONEN phd (pharm)‡

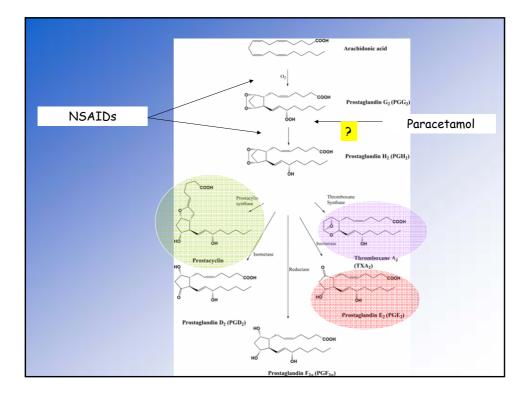
Table 2

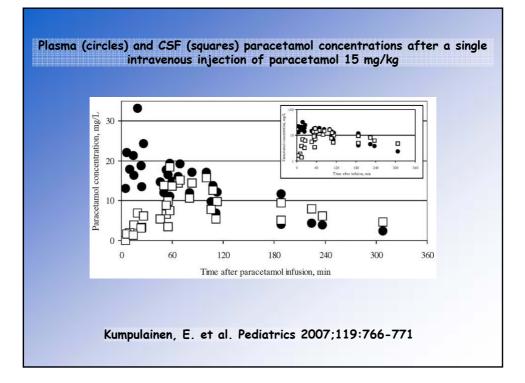
Problems in administering ketoprofen tablets to children reported by the parents: % (number of children) (n = 555)

Did not receive ketoprofen tablets	6 (23)
Difficulty in swallowing the tablet	12 (65)
Tablet bad-tasting	5 (27)
Difficult to swallow the tablet and bad taste	1 (8)
Pain during swallowing	<1 (2)
Reluctance	<1 (2)
No problems	80 (418)





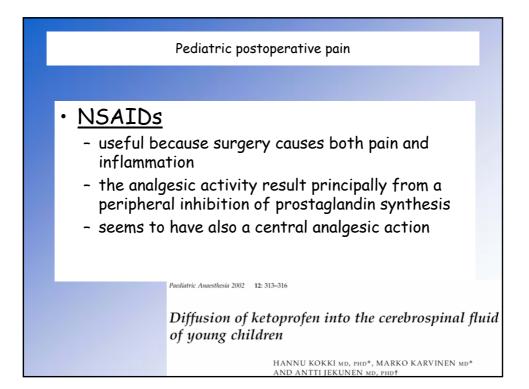


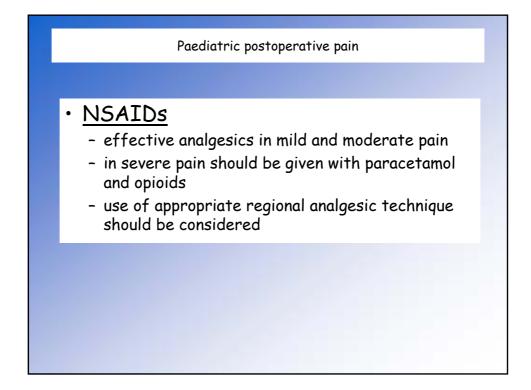


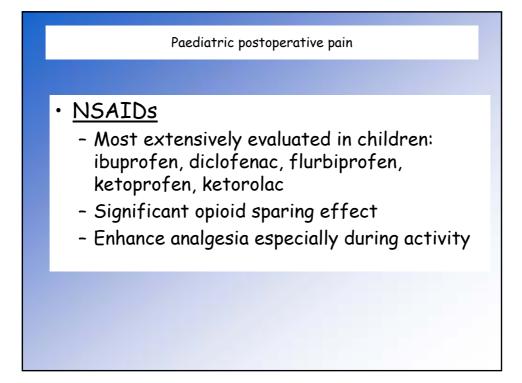


Kokki H et al. I.v. intraoperative ketoprofen in small children during adenoidectomy: a dose-finding study. Br J Anaesth 1998;81:870-4

	K	Placebo		
	3 mg/kg	1 mg/kg	0.3 mg/kg	Placebo
Need for				
rescue	53%	62%	65%	82%
analgesia				
Mean of				
fentanyl	0.7	0.9	1.1	1.7
doses				







Nonsteroidal Anti-Inflammatory Drugs for Postoperative Pain

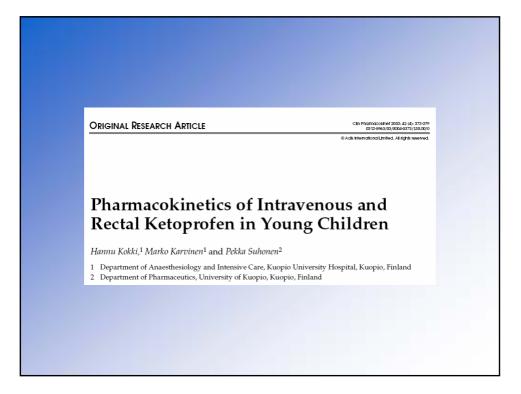
A Focus on Children

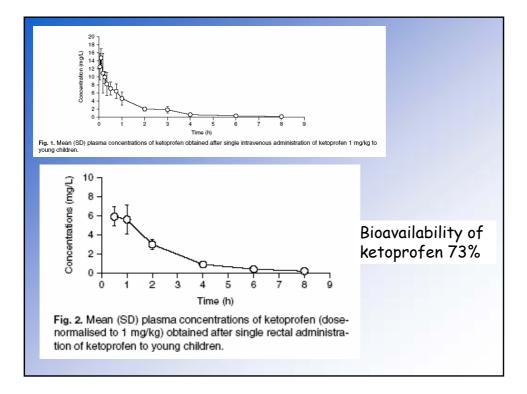
Hannu Kokki

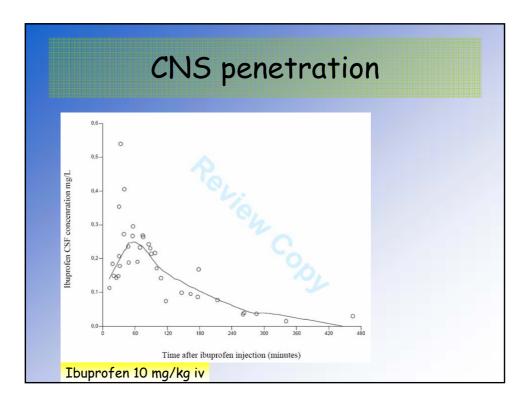
Pediatr Drugs 2003; 5 (2): 103-123

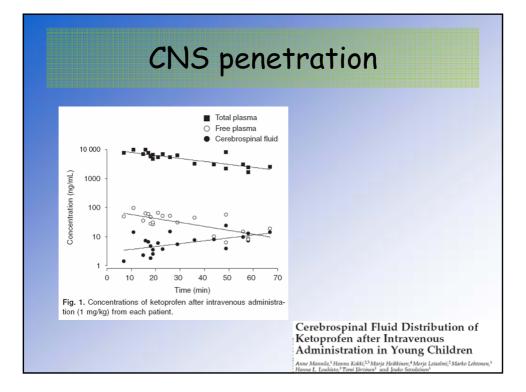
Table I. Suggested dosages of some NSAIDs for postoperative pain mana

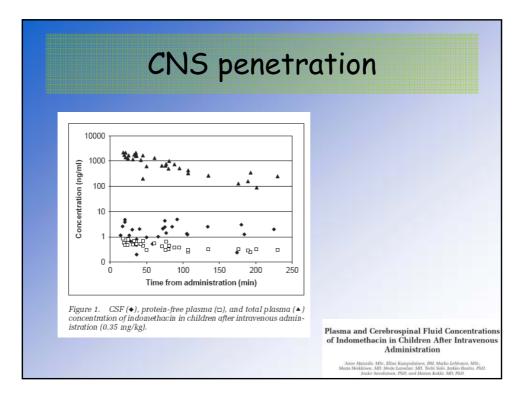
Agent	Single doses (mg/kg)	Frequency (hourly)	Maximal daily dose (mg/kg)		
Diclofenac	1	8–12	3		
Ibuprofen	10	6–8	4		
Flurbiprofen	1	8–12	5		
Ketoprofen	1–2	6–8	5		
Ketorolac	0.3–0.5	6–8	2		
a The same doses may be used intravenously, by mouth, and rectally.					

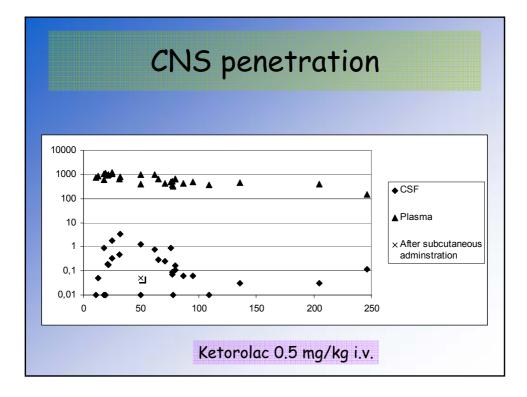


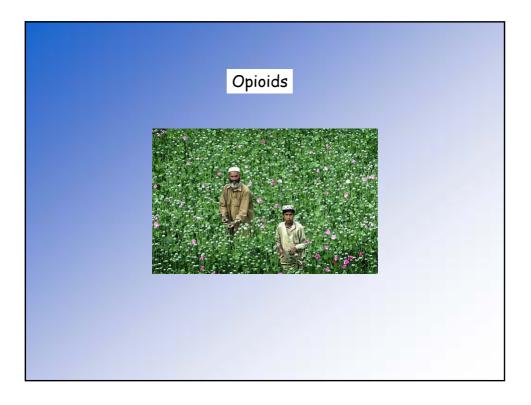


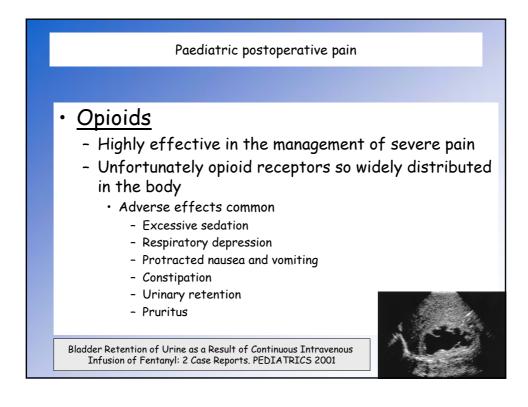


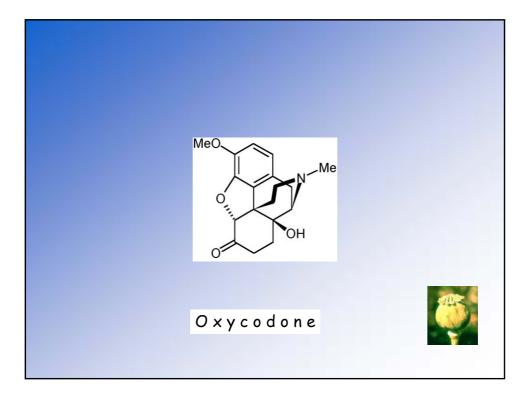


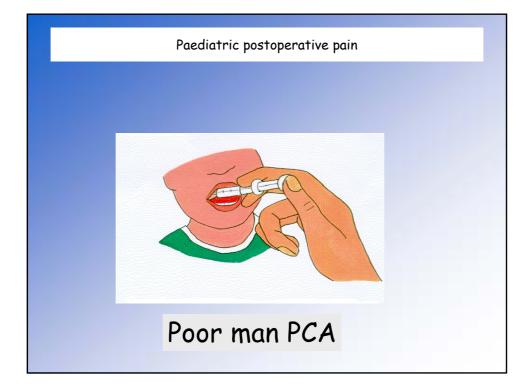




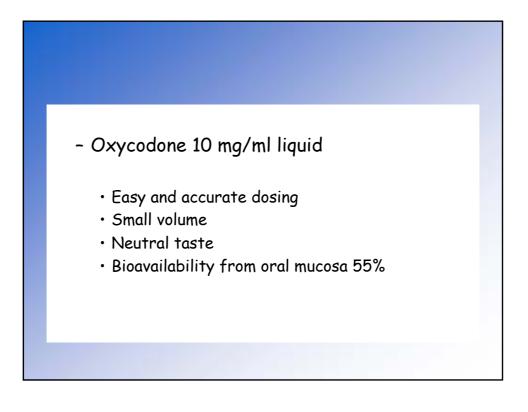


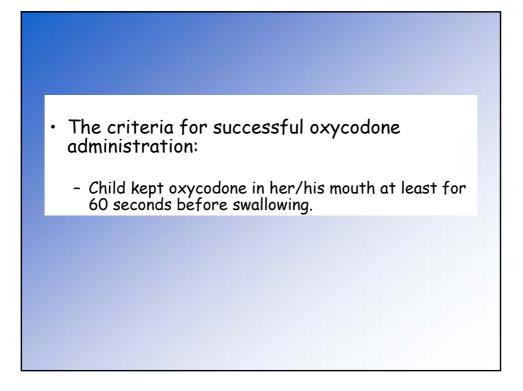


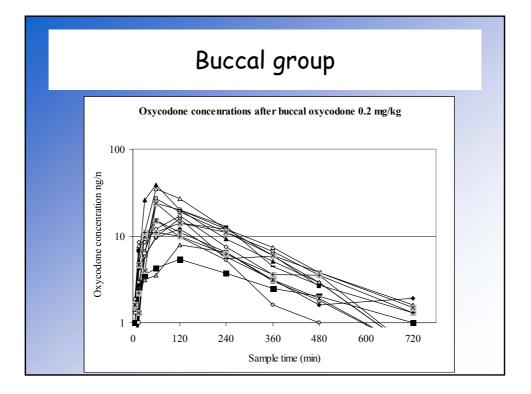


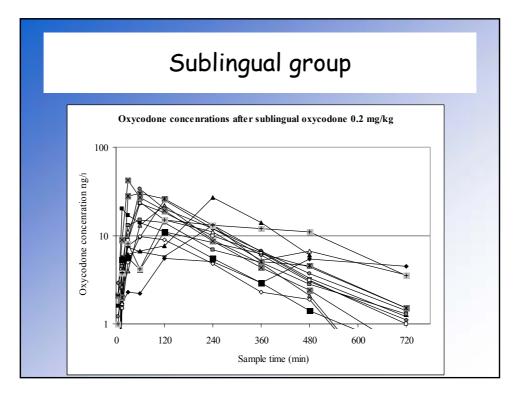


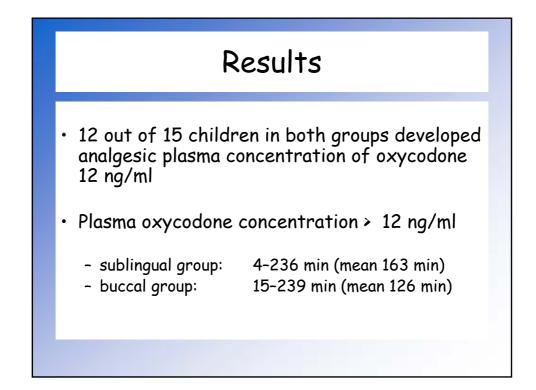


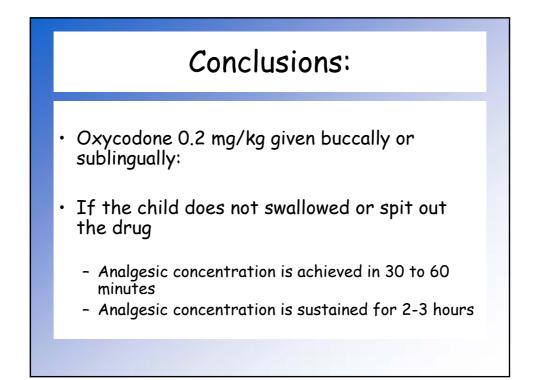






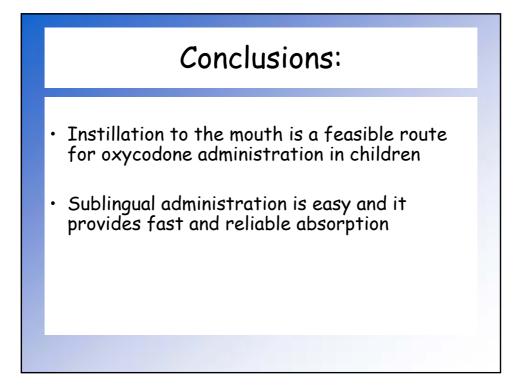


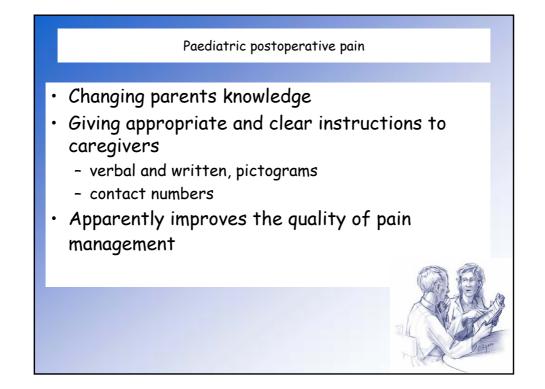


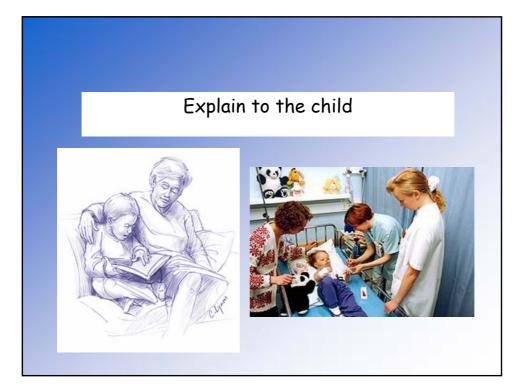


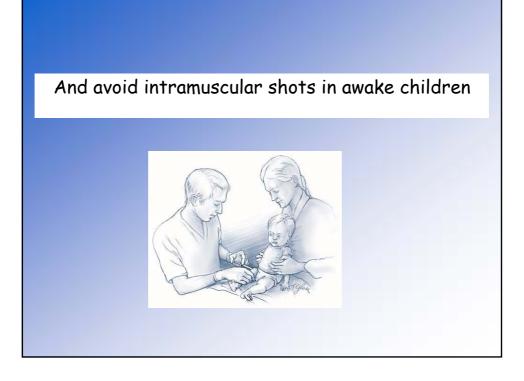
Conclusions:

- If the child swallows
 - The rate of absorption is slower
 - But the extent of absorption is not decreased
- If the child spits out the drug
 - A repeated dose of 0.1 mg/kg may be given







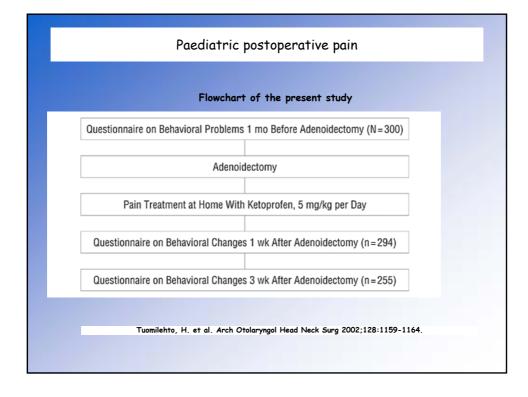


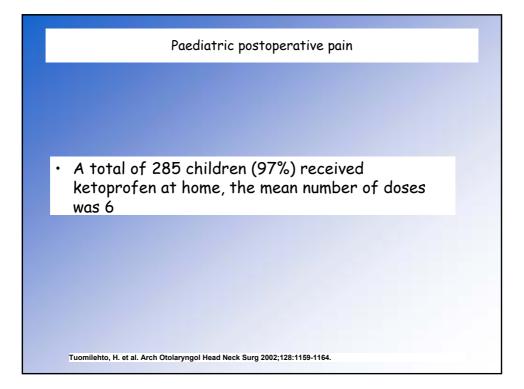
Postoperative Behavioral Changes in Children After Adenoidectomy

Protocol

- At discharge, parents were instructed about the postoperative care and pain management.
- A proactive pain treatment: 5 mg/kg/day of ketoprofen.
- To be given on a regular basis for at least 72 hours.
- Hospital contact telephone numbers
- All verbal information was reinforced with written instructions.

Tuomilehto, H. et al. Arch Otolaryngol Head Neck Surg 2002;128:1159-1164.





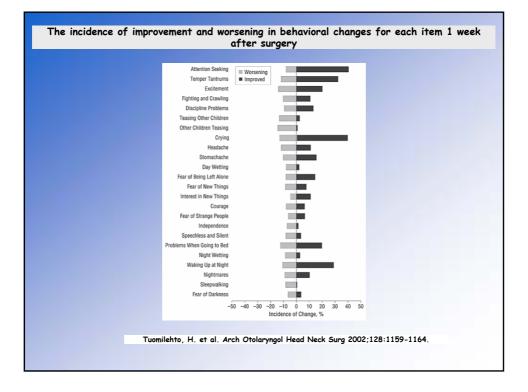
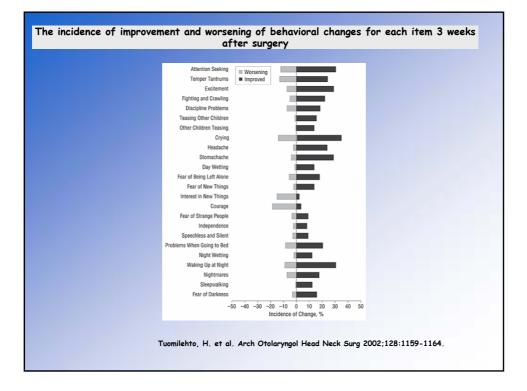


Table 4. Magnitude of Behavioral Changes in 294 Patier	nts 1 Week After Surgery

Domain	No. (%) of Cases				
	Large Improvement	Moderate Improvement	No Change	Moderate Worsening	Large Worsening
Emotional distress	4 (1)	36 (13)	183 (64)	48 (17)	13 (5)
Physical symptoms	27 (10)	47 (18)	124 (47)	39 (15)	26 (10)
Day function disturbances	2 (1)	27 (9)	241 (85)	10 (4)	3 (1)
Sleep disturbances	4 (1)	23 (8)	223 (79)	23 (8)	11 (4)

Table 4. Magnitude of Behavioral Changes in 294 Patients 1 Week After Surgery



Domain	No. (%) of Cases				
	Large Improvement	Moderate Improvement	No Change	Moderate Worsening	Large Worsening
Emotional distress	3 (1)	30 (12)	184 (73)	25 (10)	9 (4)
Physical symptoms	31 (13)	45 (20)	122 (53)	26 (11)	7 (3)
Day function disturbances	2 (1)	21 (8)	214 (85)	14 (5)	1 (1)
Sleep disturbances	1 (1)	21 (8)	195 (77)	32 (13)	3 (1)

Table 5. Magnitude of Behavioral Changes in 255 Patients 3 Weeks After Surgery

