



University of Cyprus
Medical School



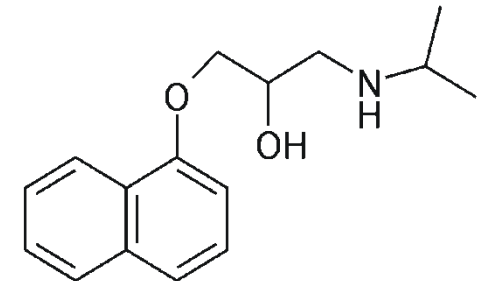
Treatment of Hemangiomas in Infancy with Propranolol in selected cases

Introduction



June 2008: propranolol can inhibit the growth of severe hemangiomas in infancy

After this observational study, numerous departments used this method for treatment of pediatric hemangiomas.



Methods

- Patients with rapidly growing hemangiomas, multiple hemangiomas or resistance to treatment of giant hemangiomas of the face and extremities were included in the study.
- The treatment consisted of p.o. medication with 2-2.5mg propranolol / kg for 3-6 months

Patient 1 (presented at the age of 7 weeks)

Initial findings



Patient 1

Treatment with steroids p.o. (2mg/kg body weight) for 4 weeks, then stopped for one week

Before treatment



After treatment



Patient 1

Treatment with propranolol (Inderal®) for 1 ½ weeks



Patient 1

Treatment with propranolol (Inderal®) for 7 weeks



Patient 2 (presented at the age of 4 weeks)



S. L. 31. 01. 09

Aufn. Dat: 10. 03. 09

Multiple hemangiomas with 1-2 new hemangiomas appearing every day
Liver not involved

Treatment with propranolol 2mg/kg/d

Hospitalisation for 24h, initiation of treatment with monitoring of:

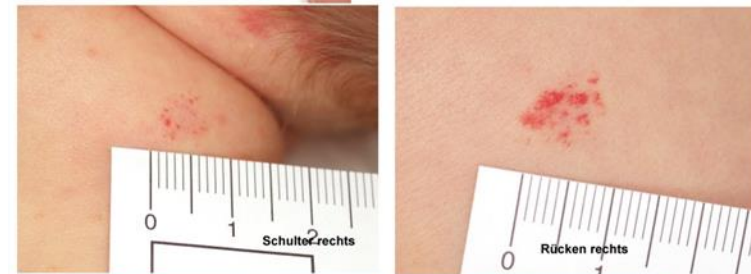
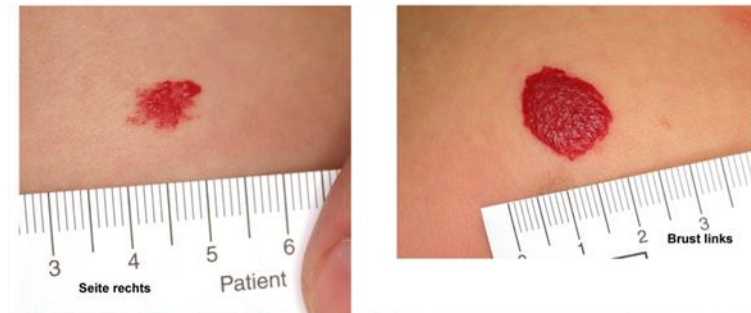
- Blood glucose level
- heart rate
- blood pressure

Patient 2

Multiple hemangiomas before therapy



S. L. 31. 01. 09
Aufn. Dat: 10. 03. 09



S. L. 31. 01. 09

Aufn. Dat: 10. 03. 09



Patient 2

Multiple hemangiomas after therapy



S. L. 31. 01. 2009

Aufn. Dat: 08. 05. 09



Results

	1	2	3	4	5
Sex	F	F	M	F	F
Birth date	23.08.08	19.09.07	31.01.09	23.07.08	10.12.08
Location	right upper limb	face	multiple hemangiomas	face (parotic gland)	mutiple hemangiomas
Age at initiation (mo)	4	11	1	9	4
Dosage (mg/kg/day)	2.5	2	2	2	2
Visual assessment	In volume and color	In volume and color	yes	yes	yes
Age at discontinuation (mo)	8	17	7	-	-
Hemangioma status at discontinuation	No regrowth	No regrowth	No regrowth	-	-
Age at last follow up (mo)	11	18	7	-	-
Hemangioma status at last follow up	Regression in color, no regrowth	Regression in color, no regrowth	Regression in color, no regrowth	-	-

Algorithm

