

Management Pathway for Cleft Patients

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Cleft lip and palate

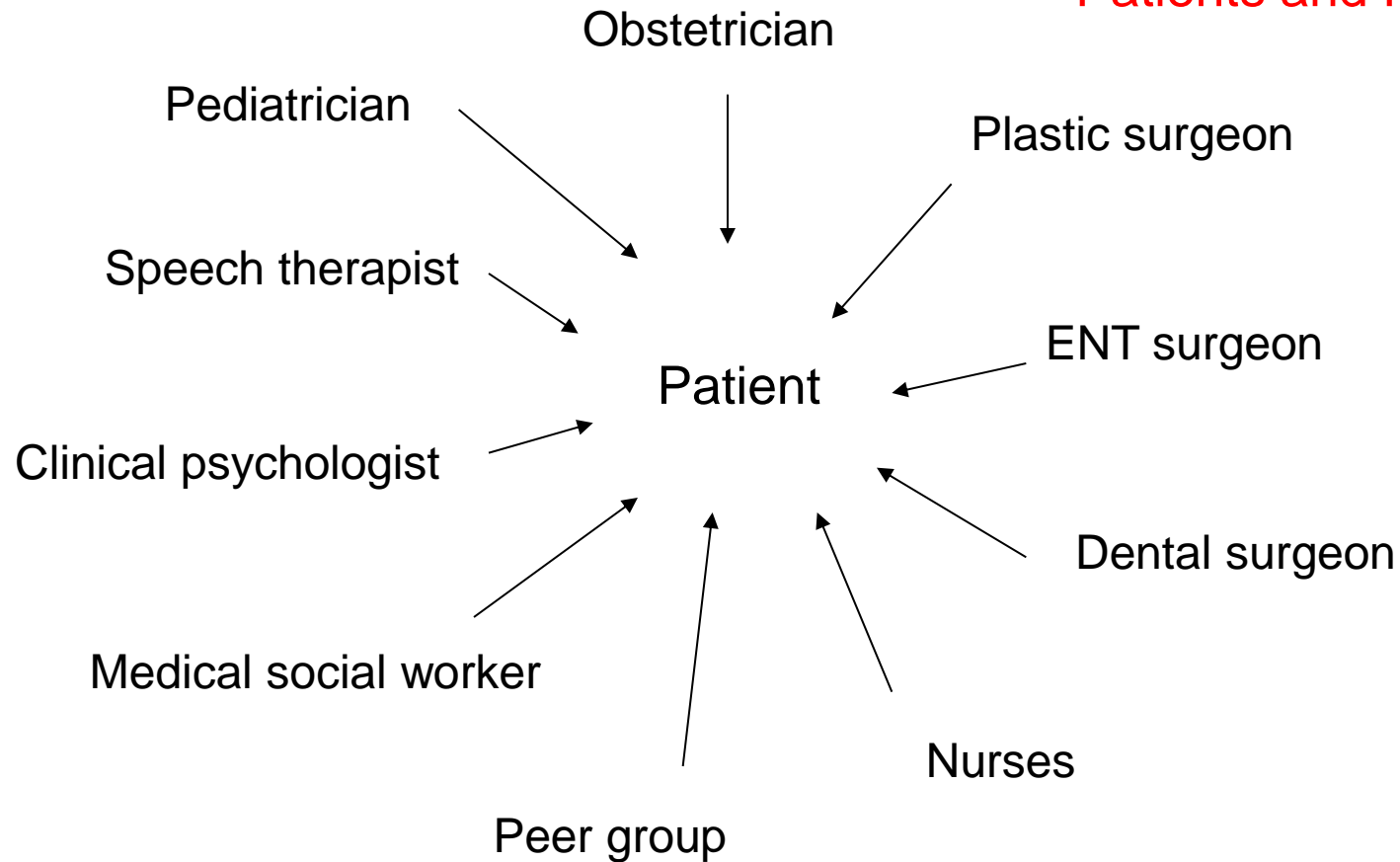
- 1 in 800-1000
- Birth rate 8.6/1000
- Census and Statistics Department
SAR 2014
70 new cases

Problems

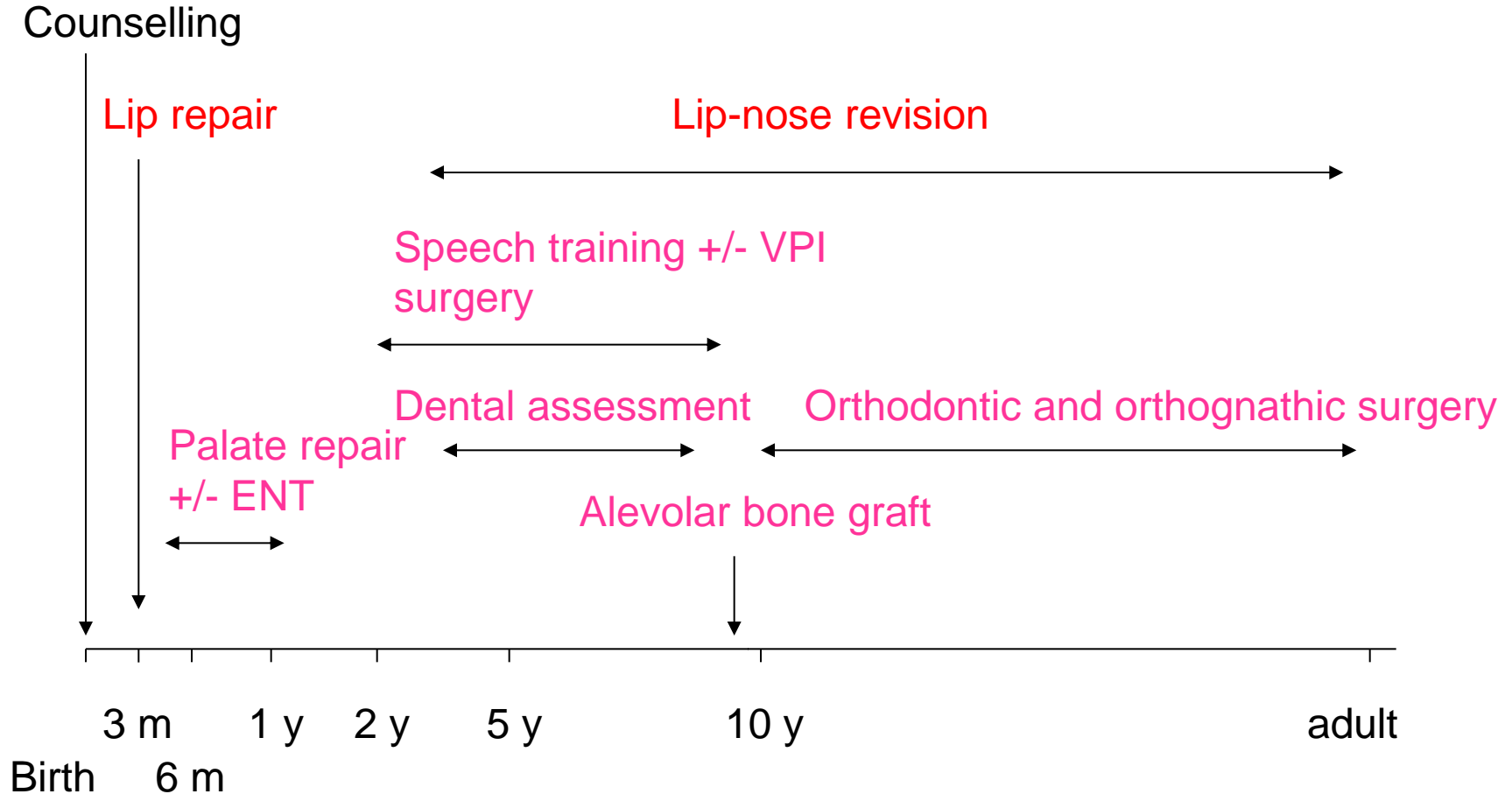
- Physical appearance
- Speech development
- Hearing
- Dental occlusion
- Psychology
- Syndrome

Multidisciplinary team

Patients and Parents



Management Protocol



Cleft Clinic

- 2 sessions per month
- Outpatient clinic S4
- Average 20-25 patients per session
- Plastic surgeon
- Dental surgeon
- Speech therapist
- (ENT surgeon)

1st Consultation

- 2-4 weeks after birth
- Treatment Plan
- Advices on feeding
- Screen for other anomalies
- Counselling

Goal of Cleft palate repair

- Speech
- Dental occlusion
- Hearing
- Facial growth

Pathway

- ❖ Medical history + Workup
- ❖ Body weight >10 lbs
- ❖ Cleft lip 3 months
- ❖ Cleft palate 6-12 months (up to 18 months for complicated medical history or airway problem)

Admission

- Admit 9am (Cleft palate) 1pm (Cleft lip)
- Seen by anaesthetist + preoperative workup
- +/- ENT consultation + Hearing test
- Consent
- One parent can accompany
- No blood test
- Observation 4x day

Day 0 Surgery

- +/- Myringotomy + Grommet insertion
- Elbow splint
- Nasal splint after rhinoplasty
- Infra-orbital nerve block for pain control
- Paracetamol suppositories 10-15mg/kg every 4-6 hours
- Antibiotics for one day
- Hourly observation for 6 hours then 4 hourly
- Feeding with syringe – clear fluid to milk
- +/- Intensive Care Unit

Day 1

- Syringe feeding
- Paracetamol 10-15mg/kg every 4-6 hours as needed (cannot sleep, agitated)
- Inspect wound
- Observation 4x day
- Titrate intravenous fluid

Discharge

- Adequate oral intake
- No bleeding
- Not in pain
- No fever
- Home with paracetamol
- Milk diet for 1-2 weeks for puree diet
- Nasal splint for 3 months

Follow up

- On Day 7 if off stitches
- Next Cleft Clinic
- Progress

Velopharyngeal incompetence

- 20% cleft palate
- Impairment of velar muscle movement
- Short palate
- Hypernasal speech and nasal regurgitation
- Speech therapy training
- Surgery

Speech Training

- 2-2.5 Years old
- Speech assessment for hypernasality (velopharyngeal incompetence) or articulation problem
- Speech training
- Complete before 6 years old

Nasoendoscopic assessment

shum ka yiu

Sex: Age:
D.O.B.:
11/03/2016
09:43:09

■■■/■■□(0/1)
Eh:A3 Cm:1

Comment:



Dental Assessment

- Dental hygiene
- Alveolar bone graft
- Orthodontic treatment
- Orthognathic surgery

Orthodontic and Orthognathic Surgery

- Cleft palate patients will have mal-alignment of teeth and jaw position.
- Orthodontic treatment can alignment the dentition
- Orthodontic treatment usually commences when permanent teeth have erupted
- Orthognathic surgery can correct occlusion of jaw and facial profile.
- Orthognathic surgery can be carried out after facial growth has completed
- Orthognathic surgery requires perioperative orthodontic treatment

*“The work will not have completed until
the child has grown up.....”*