

Mouth and dental problems: Experience in Chile

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Mechelen, 25 October 2008





Population: 16.763.470
GPD per capita: 14.400 USD

Debra Chile:

- Provide treatment
 - Education
 - Research

EB in Chile

162 Diagnosed cases in Chile

85 EBS

9 JEB

68 DEB

Dental treatment in Chile

➤ Dental Health Care provided by the national health system:

- ✓ 6 year old
- ✓ 60 years old
- ✓ Cleft lip and palate
- ✓ Pregnant women
- ✓ Emergency dental treatment

Oral Manifestations

QOL

Today

Research

Mouth and dental problems

1. Oral Manifestations
2. Oral Health related Quality of Life
3. Today: Treatment protocol
4. Research

Oral

Manifestations

QOL

Today

Research

1. Oral Manifestations

Oral

Manifestations

EBS

JEB

DEB

QOL

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May present with episodes of oral ulceration 2 – 3 times monthly.
Heal without scarring.

One patients with EBS (K5:A22G)
and with Generalized Hypoplasia,
main feature of JEB.

Oral

Manifestations

EBS

JEB

DEB

QOL

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Limited Mouth Opening

Hypergranulation tissue

Oral

Manifestations Amelogenesis Imperfecta

EBS

JEB

DEB

(Generalized Hypoplasia)

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100% patients with JEB present Amelogenesis Imperfecta, which can differ between hypoplastic, hypomature or hypocalcified type.

Oral

Manifestations

EBS

JEB

DEB

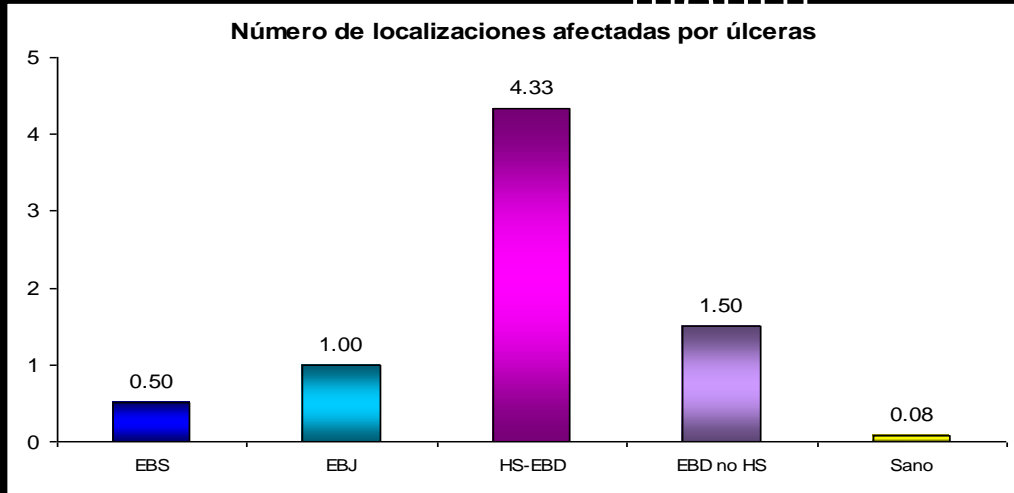
QOL

Today

Research

Bullae:

Number of affected sites inside the mouth



	EBS	EBJ	EBDr-HS	EBD-no-HS
EBJ	0.999			
EBDr-HS	0.0001	0.003		
EBD-no-HS	0.834	0.999	0.0001	
Grupo Control	0.999	0.999	0.0001	0.025

Oral

Manifestations

EBS

JEB

DEB

QOL

Today

Research

Affected sites:

Oral

Manifestations

EBS

JEB

DEB

Microstomia (Limited Mouth Opening)

QOL

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Research

Progressive

0-6 years (n=6) : 24.2mm
7-12 years (n=6): 22.1mm
> 13 years (n=6): 20.2mm

Normal mouth opening
(45 - 55mm)

Oral

Manifestations

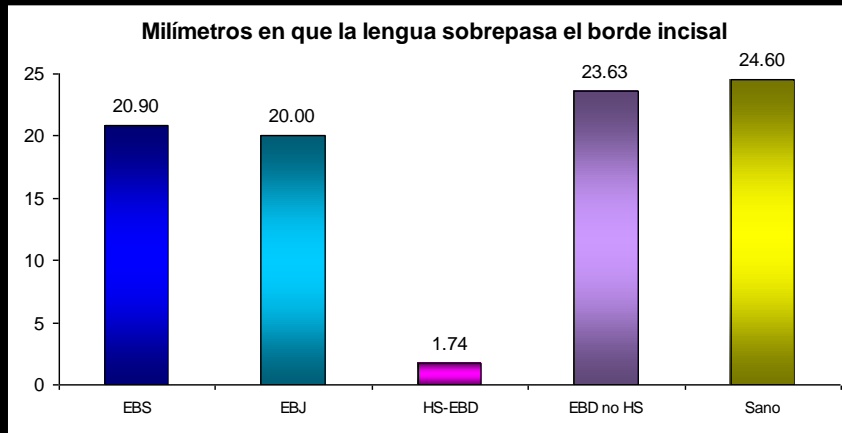
EBS
JEB
DEB

Ankyloglosia

QOL

Today

Research



	EBS	EBJ	EBDr-HS	EBD-no-HS
EBJ	0.999			
EBDr-HS	0.0001	0.011		
EBD-no-HS	0.999	0.999	0.0001	
Grupo Control	0.481	0.999	0.0001	0.999

Oral

Manifestations

EBS

JEB

DEB

Loss of the vestibular
depth

QOL

Today

Research

Oral

Manifestations

EBS

JEB

DEB

QOL

Today

Research

Enamel abnormalities

Oral

Manifestations

EBS

JEB

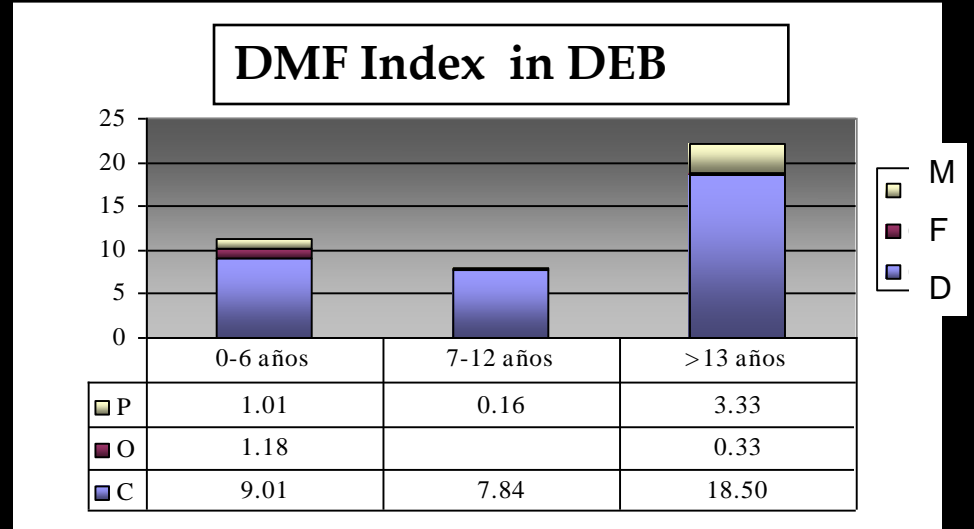
DEB

QOL

Today

Research

Caries: DMF index



Oral Manifestations

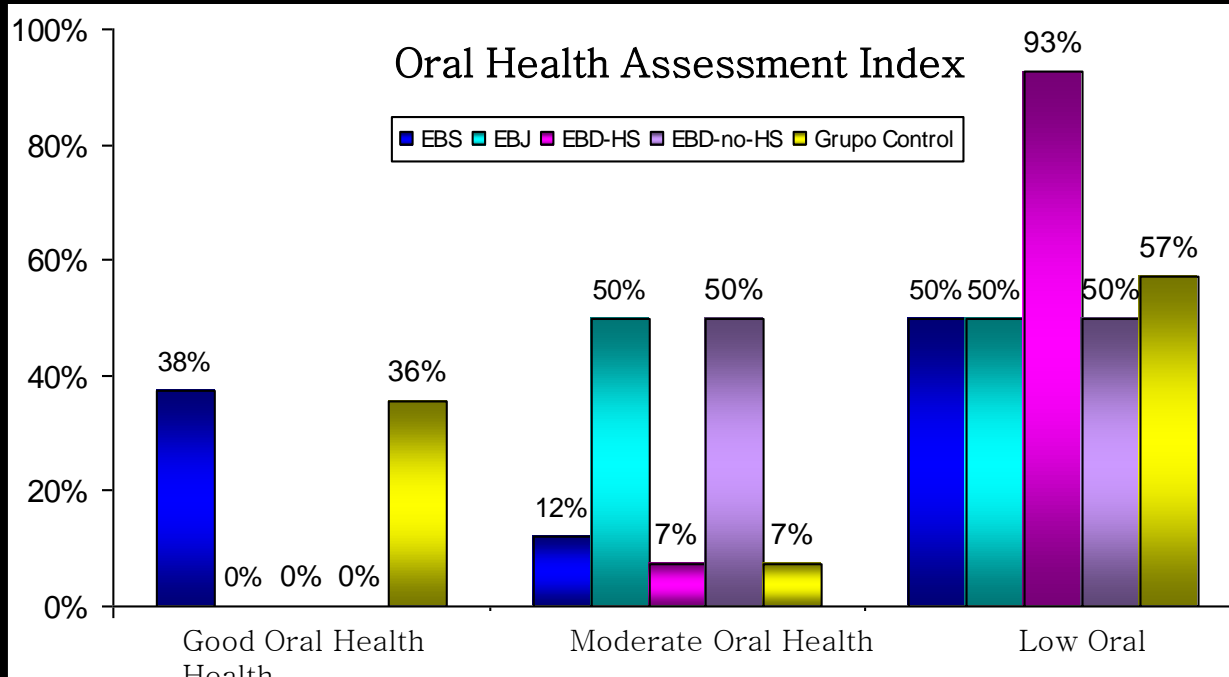
Quality of Life

Today

Research

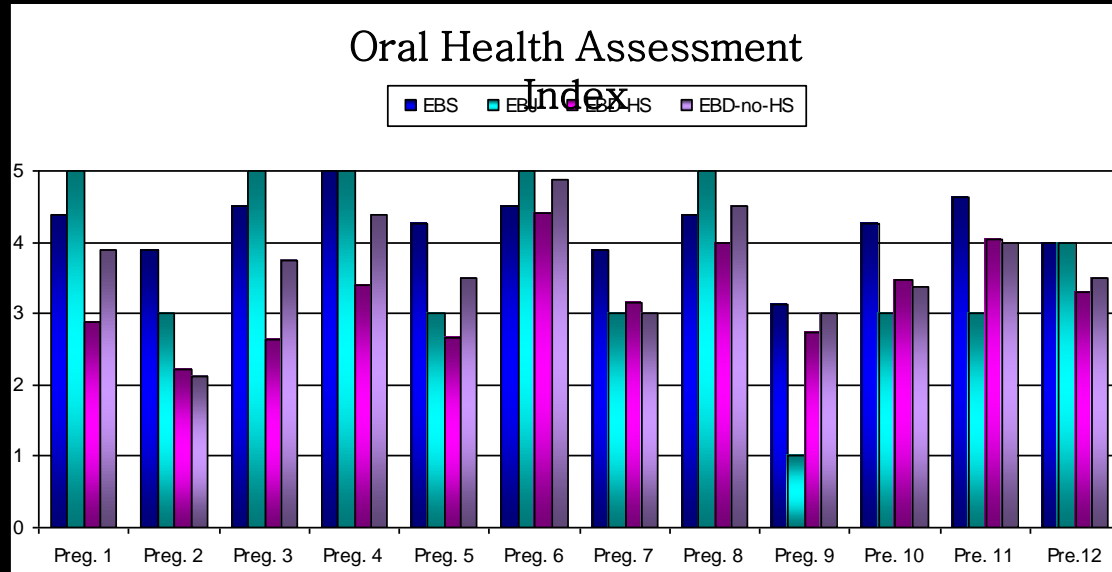
2. Oral Health related Quality of Life

Oral Health Assessment Index



	EBS	EBJ	EBDr-HS	EBD-no-HS
EBJ	0.392			
EBDr-HS	0.003	0.056		
EBD-no-HS	0.091	0.999	0.005	
Grupo Control	0.899	0.192	0.004	0.030

Main oral health problems?



Quality of Life

Today

Research

EBS:

- They were “Sometimes” concerned about problems with teeth and gums.
- “Seldom” they had troubles biting or chewing.

JEB:

- They were “always” concerned about problems with their teeth and gums.
- “Sometimes” they had troubles biting or chewing.

Severe generalized RDEB :

- “Often” they had troubles biting or chewing.
- “Seldom” they were able to swallow comfortably
- “Seldom” they were able to eat without feeling discomfort.

Other DEB subtypes:

- “Often” they had troubles biting or chewing.
- “Sometimes” they were concerned about problems with teeth and gums.

Oral Manifestations

QOL

Today

Research

3. Today:

Dental Treatment Protocol

DebRA Chile

Goal:

Prevention

Dental Treatment Scheme

1. Oral Examination, Education, Treatment Plan.
2. Dental Clinic
 - Emergency.
 - All treatment starting with anterior segment.
3. General Anaesthesia
 - Extractions
 - More complex treatment
4. Dental Clinic
 - Fillings and crowns, according to the treatment provided under GA.
5. Review
 - Review every 3 months.

1. Oral
Examination

Early Referral !

Education

Treatment plan

2. Dental Clinic

3. General

Anaesthesia

4. Dental Clinic

Education

5. Review

1. Oral
Examination

Education

Treatment plan

2. Dental Clinic

3. General
Anaesthesia

4. Dental Clinic

5. Review

Education - Prevention

- Tooth brush:
 - Small head.
 - Short and soft bristle.
 - Handle easy to grab.

More preventive measures:

- High dose fluoride tooth paste.
- Fluoride mouth wash.
- Chlorhexidine mouth wash.

1. Oral
Examination
Education
Treatment plan

Exercises:

Mouth opening and tongue movement.

2. Dental Clinic

3. General
Anaesthesia

4. Dental Clinic

5. Review

- 1. Oral
 - Examination
 - Education
 - Treatment plan**

Some aspects dentists, patients and parents need to be aware of:

2. Dental Clinic

Start working on the anterior segment, to give time to increase mouth opening.

3. General

- Anaesthesia

4. Dental Clinic

Explain to the patient and carer that during the dental treatment some ulcers can appear.

5. Review

Suction tip should be leaned against tooth surface. If the suction tip touched the mucosa it can produce an ulcer.

1. Oral
Examination
Education
Treatment plan

Prevention: Sealants and Fluoride

2. Dental Clinic

3. General
Anaesthesia

4. Dental Clinic

5. Review

1. Oral
Examination
Education
Treatment plan

2. Dental Clinic

3. General
Anaesthesia

4. Dental Clinic

5. Review

Endodontics

Rehabilitation

Fillings

Surgery

- 1. Oral Examination
- Education
- Treatment plan

Crowns

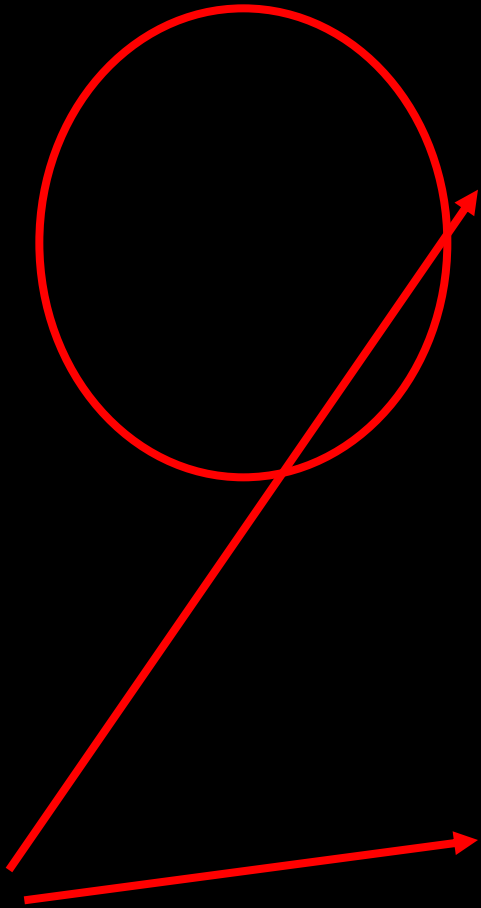
2. Dental Clinic

- 3. General Anaesthesia

4. Dental Clinic

5. Review

Periodontal treatment



Pulpotomies y multiple extractions

1. Oral
Examination
Education
Treatment plan

2. Dental Clinic

3. General
Anaesthesia

4. Dental Clinic

5. Review

Oral Rehabilitation

1. Oral
Examination
Education
Treatment plan

2. Dental Clinic

3. General
Anaesthesia

4. Dental Clinic

5. Review

1. Oral
Examination
Education
Treatment plan

2. Dental Clinic

3. General
Anaesthesia

4. Dental Clinic

5. Review

Review every 3
months

4. Research - Dentistry

Scientific literature today

Research

- Only 2 case series published
(1991 [NEBR], 2003 [C. Serrano])
- Most literature available:
case reports
- Actual interest:
3 reports about Implants (2000, 2007, 2008)

Future

- Therapeutic Approaches for Increasing Mouth opening in severe generalized RDEB.

Oral Manifestations

QOL

Today

Research

Therapeutic Approaches for Increasing Mouth opening in severe generalized RDEB

Randomized controlled trial in clinical phase.

Results expected for September 2009.

