Indonesia BIG Challenges

Population 250 million, 46% living with less than US$ 2/day

Dentists 1: 12,257
Dental nurse 1: 14,600

6 years old:
Decay 7 teeth/Child
Prevalence 90%
Dental Immunization concept

Parents / school
- Risk Assess
- Irene Donut

Health provider
- Remin Th/ CPP ACP
- Surface protection

Dental Immunization concept
Dental Immunization
Best Practice of Global Charter for Public's Health

Dr Irene Adyatmaka & Dr Adang Bachtiar
Behaviour and Health Literacy

- To Ministry of Education, School's Masters, parents and teachers
- Purpose: empower community to able taking preventive measures, change of behaviour
- Checklist to monitor Knowledge, attitude, practice
Behavior and Health Literacy

- Tooth brushing using Triplaque ID Gel to indicate the maturity of the plaque

- **Pink**: new plaque, **purple**: 48 hours plaque, **light blue**: cariogenic plaque

- Purpose: to increase skill, educate, feedback, patient empowerment
Primary Prevention

- Caries Risk Assessment using Irene Donut software
Hello...KID'S NAME (Parent's Name: MOM'S NAME)

Advice

1. Limit the frequency of drinking soft drink and sweetened drink.
   - Yes, I am willing to change

2. Do not give milk during the eight bed time.
   - Yes, I am willing to change

Menu

Responsibility

Current Condition

After Repair

www.irenedonut.com
Empathy

Self Efficacy
Secondary Prevention

- Teeth are the strongest part of human body, which can withstand high explosion and are not damaged by such incidents.
- But in the mouth, teeth can become so weak because of acid produced by bacteria.
- Earliest visible sign that teeth are demineralizing is white spot.

DVI documents courtesy Indonesia Police Headquarters
Secondary Prevention

- Screening white spot is therefore important
- Goal: modify saliva pH, bring back Calcium Phosphate (Remineralization), stop the progress of the caries disease
- Remineralization therapy using Tooth Mousse containing Recaldent CPP ACP (pH 8.4)
Tertiary Prevention

• Surface Protection erupting molars using high-releasing GIC Fuji 7

• Reason: can be done in the field without electricity and without light curing units

• Cost per tooth USD 0.4 (40 cents)
Tertiary Prevention

- ART GIC fillings
- 3 minutes/ tooth
- Prevent loss of self confidence in children
Regulations

- Student's performance report
- Purpose: regulate
Health Impact Assessment

• Improvement of health life style:
  A. Reduction of drinking soft drink 47% to 3%
  B. Reduction of candies consumption 21% to 2%
  C. Reduction of bottle-milk usage 18% to 1%

• 50% Children with decays > 7 teeth were underweight
International Coordination

- International support has been remarkably pushed the program forward
- Act as back bone
Social Mobilization

- Primary stake holder: district-provincial-national health office, district-provincial-national education office
- Critical stake holder: school principals, parents
Voluntary Community Engagement

• Characteristics?
• Self Reliance
• They have their own way
Monitoring Evaluation

- **Family level**: checklist
- **School level**: KAP compilation report
- **Health district level**: Dental health reports
- **District education office**: number of healthy school (more than 200 schools with more than 20,000 children)
Monitoring evaluation

**Percentage Decay in Permanent Teeth**

- **Sesetan**: 14 early, 8 end
- **Pedungan**: 29.3 early, 5 end
- **Saraswati 5**: 4.1 early, 2 end
- **Cipta Dharma**: 2 early, 1 end

**Percentage Caries Free Children**

- **Before**: 12, 14, 12.2, 15.9, 19, 28
- **After**: 47.5, 47.8

**Legend**
- Blue: before
- Green: after
Risks & Innovation

- Bottle-milk graduation
Health Workers and Wider Workforce

- Dental nurses
- Teachers
- Headmasters
- Parents
Curriculum

Dental Immunization

URGENCY TO BUILD EMPOWERMENT IN COMMUNITY

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• Health workforce: Curriculum for dental nurses; for public health dentists

• Wider workforce: training modules for teachers; for parents

• Dental Immunization book in English, purpose: to be applied at international level
Governance

Public Health Legislation
MoUs between Ministry of Health and Ministry of Education local-governments
• Self-financing: Autopoiesis "Self perpetuating system"

• Average USD 0.5 - USD 1.00 per child per month

• Purpose: community ownership
Future Dreams
Universal Health Coverage

- Dental immunization as UHC schemes in Indonesia (BPJS Scheme)
  - For Dentists
  - For Dental nurses
- Part of the high priority of Health sector national policy:
  - Family Health Approach
- Part of the Ministry of Village’s programs
  - Healthy Village Posts
CALL FOR ACTIONS

1. The Dental Immunization is a new concept for
   • Integrating oral to whole body disease approach
   • People’s health of self perpetuating system
2. Need
   • International supports and collaborations
   • Implementing the concept within multi centre approach in several countries
3. Those who interested to implement, please contact us after the session to get the book.
Dental Immunization is a Global Charter for Public's health.