The International Caries Classification and Management System is a health outcomes focused system that aims to maintain health and preserve tooth structure. It uses a simple form of the ICDAS Caries Classification model to stage caries severity and assess lesion activity in order to derive an appropriate, preventively based, risk-adjusted, tooth preserving Management Plan.

**ICCMS™ 4D**

**Detect & Assess**
Caries Staging & Activity
(CLASSIFICATION & INTRA-ORAL RISK)

**Determine**
Patient-level Caries Risk
(HISTORY)

**Do**
Appropriate Tooth & Patient Preserving Caries Prevention & Control Interventions (MANAGEMENT)

**Decide**
Personalised Care Plan: Patient & Tooth Levels
(DECISION MAKING)
The International Caries Classification and Management System (ICCMS™) is a health outcomes-focused system that aims to maintain health and preserve tooth structure. It uses a simple form of the ICDAS Caries Classification model to stage caries severity and assess lesion activity in order to derive an appropriate, personalized, preventively based, risk-adjusted, tooth preserving Management Plan.

**1. DETERMINE Patient Level Caries Risk**

- **Patient-level Risk Factors**
  - Head and Neck Radiation
  - Dry mouth
  - Inadequate OH practices
  - Deficient exposure to topical Fluoride
  - High frequency/amount of sugar consumed
  - Symptomatic-driven attendance
  - Socioeconomic Status/Access barriers
  - Mothers high DMF (caries experience)

  Risk factors in red will always classify an individual as high caries risk.

- **Management at the patient level**
  - Management of individual lesions
    - Non-Operative Care - Control
      - Fluoride varnish, gel, toothpaste (+ Oral Hygiene)
      - Sealing (resin-based, GI, infiltrants)
      - Mechanical biofilm removal
    - Tooth-Preserving Operative Care
      - Tooth-preservative restorations
      - Step-wise excavation / Pulp Preserving restorations
      - Sealing / Hall Technique / ART

- **Management of individual active lesions**
  - 2-day toothbrushing (≥1,000 ppm F)
  - Improve oral-health behaviour
  - F mouthrinse

- **Clinical Interventions/Approaches**
  - Motivational engagement: improve oral hygiene & reduce free sugars
  - Professional cleaning
  - Sealing
  - 2-4/year-F varnish/gel/solution
  - Modifying hyposalivation

  Interval recalls: 1-3 m in high-, 3-6 m in moderate-, 6-12 m in low likelihood

**2. DETECT & ASSESS Caries Staging & Activity Status**

- **Caries Staging & Activity (CLASSIFICATION & INTRA-ORAL RISK)**
  - **ICCMS™ Caries Categories**
    - Sound
    - Initial Active
    - Initial Inactive
    - Moderate Active
    - Moderate Inactive
    - Extensive Active
    - Extensive Inactive

  **Note:** Where available combine with radiographs.

- **Intra-Oral Risk Factors**
  - Hypo-salivation/Dry mouth
  - PUFA- Dental Sepsis
  - Caries experience
  - Thick plaque
  - > biofilm retention
  - Exposed root surfaces

  Risk factors in red will always classify an individual as high caries risk.

**2.2 ASSESS Intra-Oral Risk Factors**

- **ICCMS™ Caries Diagnosis**
  - **ICCMS™ Sound**
  - **ICCMS™ Initial Active/Inactive**
  - **ICCMS™ Moderate Active/Inactive**
  - **ICCMS™ Extensive Active/Inactive**

**3. DECIDE on a Personalised Care Plan**

- **Tooth & surface level**
  - **ICCMS™ Caries Likelihood for progression of existing or new caries lesions**
    - Low Likelihood
    - Moderate Likelihood
    - High Likelihood

**4. DO Appropriate Prevention & Preservation Interventions**

- **Management at the patient level**
  - **Management of individual active lesions**