## **Seminar Worksheet**

> Describe how you envision the "dental hygienist" in the year 2027?

> List the skills you believe will be needed to compose this future model?

Can you currently list **3 or 4** of <u>your greatest skills</u> as an oral healthcare professional?

Do these skills you list fit the model you envision for the future?

What do you see as our greatest impediment or obstacle in achieving your vision?

Figure 1. Caries Diagnosis and Management System Continuum as proposed by the International Caries Detection and Assessment System (ICDAS) Committee.

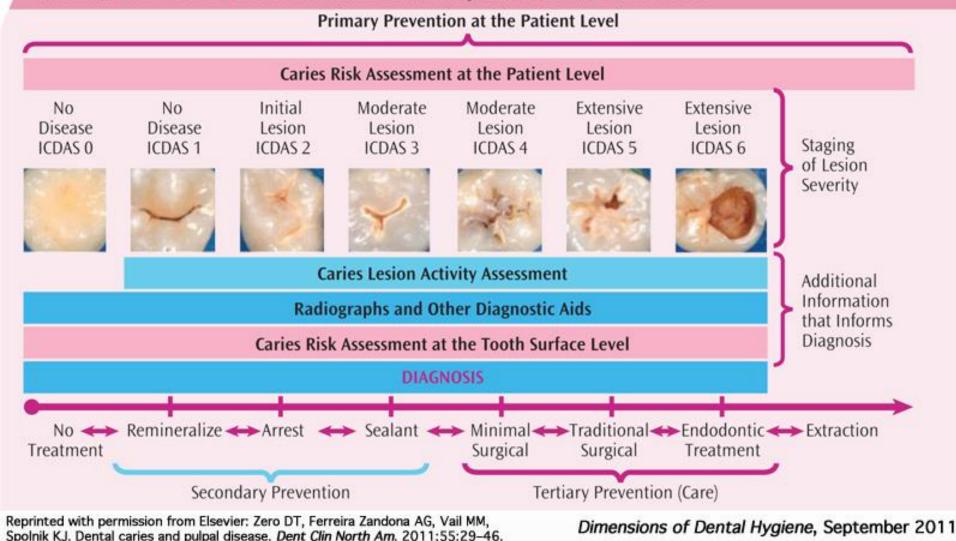


Figure 2. Caries detection methods and their abilities to detect lesions on occlusal or proximal surfaces.

International Caries Detection and Assessment System (ICDAS)		0	1	2	3 and 4	5 and 6
		0	0	0	(8)	
Histology						
Visual Exam		<b>V</b>	√ Occlusal surfaces	√ Occlusal surfaces	√ Occlusal surfaces √ Proximal surfaces	√ Occlusal surfaces √ Proximal surfaces
Bitewing X-rays				√ Proximal surfaces	√ Occlusal surfaces √ Proximal surfaces	√ Occlusal surfaces √ Proximal surfaces
Light-Induced Fluorescence	QLF™ by Inspektor™ Dental Care, FluoreCam™ by Daraza, SOPROLIFE by Acteon Group, Spectra Caries Detection Aid by Air Techniques		√ Occlusal surfaces	√ Occlusal surfaces	√ Occlusal surfaces	√ Occlusal surfaces
Infrared Fluorescence	Midwest Caries I.D.™ by DENTSPLY Professional and DIAGNOdent Caries Detection Aid by KaVo			√ Occlusal surfaces √ Proximal surfaces		
Infrared Fluorescence Combined with Photo- Thermal Radiometry	The Canary System™ by Quantum Dental Technologies			√ Occlusal surfaces √ Proximal surfaces		
Transillumination	Microlux™ Diagnostic System by AdDent Inc			√ Occlusal surfaces √ Proximal surfaces	√ Occlusal surfaces √ Proximal surfaces	√ Occlusal surfaces √ Proximal surfaces
AC Impedance Spectroscopy	CarieScan PRO™ by 3D Diagnostic Imaging			√ Occlusal surfaces √ Proximal surfaces	√ Occlusal surfaces √ Proximal surfaces	√ Occlusal surfaces √ Proximal surfaces

## Addendum: Chart D

## **CALCIUM – PHOSPHATE TECHNOLOGIES**

Technology/ Chemistry	ACP Amorphous Calcium Phosphate ADA licensing	CPP-ACP Casein Phosphopeptide Amorphous Calcium Phosphate (Recaldent®)	CSPS Calcium Sodium Phosphosilicate  (Novamin®)	TCP  Beta Tri-calcium Phosphate  (Functionalized TCP)
Mechanism of Action	Specialized salt compounds No defined structure or crystalline structure Highly reactive	Casein binds to tooth surface until pH is lowered/ acidic challenge frees ions	Silica binds Ca/P until sodium elevates pH to free CA/P ions	Blended beta tricalcium phosphate is insoluble crystalline form
Solubility and Bioavailability	Rapid delivery Highly soluble & Bioavailable Greater Fluor uptake	Becomes soluble only during lowered pH/acidity	Becomes soluble when sodium elevates and buffers pH	Low to moderate rate of solubility
Professional Products	• ENAMEL PRO:  - Prophy paste/formulated to deliver ACP  - NaF Varnish & NaF Gel, - Enamelon Preventive Treatment Gel & Toothpaste - BioCoat™ Sealant  • DAY WHITE™/ NITE WHITE™ & Relief gel /ACP  • ARM & HAMMER® Complete Care /ACP Enamel Care / Canada*	MI PASTE     MI Paste Plus (fluoride)     MI NaF Varnish      Tooth Mousse*     (International brand MI)	•NUPRO NuSolutions Prophy paste w/ Novamin  TOPEX ReNew	VANISH NaF varnish with TCP  - CLINPRO 950 - CLINPRO 5000  PREVIDENT Boost 5,000pppm