

# **INTRODUCTION AND PURPOSE**

One criterion for long-term success of implant-supported prostheses is the establishment of a proper occlusal scheme. It is imperative for clinicians to be well-versed in these different concepts when rehabilitating with implant prostheses. The importance of occlusion can be neglected due to a limited understanding and lack of available data from the literature. The **aim** of this research is to provide literature based occlusal scheme guidelines for the treatment of edentulous patients with dental implants.

## METHODS

An electronic search was performed in several databases including PubMed/ Medline, EMBASE, Cochrane Library, and Scopus. The key words were "implant occlusion", "implant occlusal scheme", "implant overload", and "implant complications". A total of 35 articles qualified for the inclusion criteria of the current research.

> Possible Peri-Implant Bone Loss

Possible Failure of Osseointegration

Alteration in Esthetic

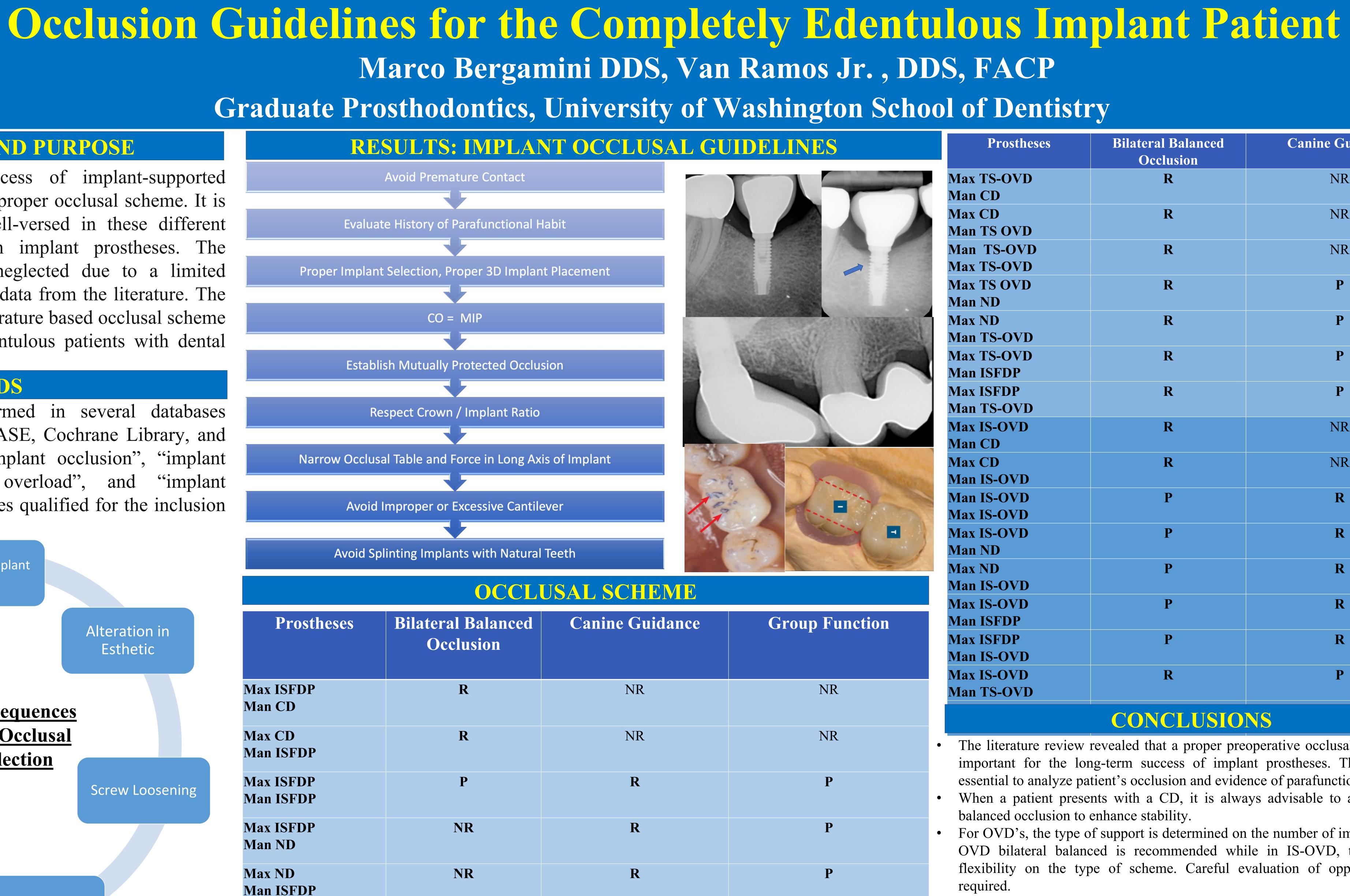
**Possible Consequences** of Improper Occlusal **Scheme Selection** 

Implant Fracture

Screw Loosening

Prosthesis Fracture

Screw Fracture



Legend: Max (Maxilla), Man (Mandible), CD (Complete Denture), TS-OVD (Tissue Supported Overdenture), IS-OVD (Implant Supported Overdenture) ISFDP (Implant Supported Fixed Partial Denture), R (Recommended), NR (Non-Recommended), P (Possible)

nce	<b>Group Function</b>
	NR
	NR
	Ρ
	Ρ
	Ρ

CONCLUSIONS The literature review revealed that a proper preoperative occlusal evaluation is important for the long-term success of implant prostheses. Therefore, it is essential to analyze patient's occlusion and evidence of parafunctional habits.

- required.



al Balanced	Canine Guidance	<b>Group Function</b>
R	NR	NR
R	NR	NR
R	NR	NR
R	P	NR
R	P	Р
R	Р	P
R	Р	Р
R	NR	NR
R	NR	NR
Р	R	Р
Р	R	Р
Р	R	Р
Р	R	P
Р	R	P
R	P	P
		P

• When a patient presents with a CD, it is always advisable to adopt bilateral

• For OVD's, the type of support is determined on the number of implants. In TS-OVD bilateral balanced is recommended while in IS-OVD, there is more flexibility on the type of scheme. Careful evaluation of opposing arch is

For ISFDP, clinical judgment is necessary when analyzing the opposing arch. Recent research suggest that group function may have 3 times more mechanical

