**TABLES AND FIGURES**

**Table 1: Search strategy**

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| Population | ("titanium"[MeSH Terms] OR "titanium"[All Fields]) AND ("dental implants"[MeSH Terms] OR ("dental"[All Fields] AND "implants"[All Fields]) OR "dental implants"[All Fields]) |
| Intervention | (surface[All Fields] AND coating[All Fields]) AND ("graphene oxide"[Supplementary Concept] OR "graphene oxide"[All Fields]) |
| Comparison | (conventional[All Fields] AND ("implants"[MeSH Terms] OR "implant"[All Fields])) AND (("chitosan"[MeSH Terms] OR "chitosan"[All Fields]) AND surface[All Fields] AND coating[All Fields]) |
| Outcome | ((("osseointegration"[MeSH Terms] OR "osseointegration"[All Fields]) AND (("biofilms"[MeSH Terms] OR "biofilms"[All Fields] OR "biofilm"[All Fields]) AND ("metabolism"[MeSH Terms] OR "metabolism"[All Fields] OR "formation"[All Fields]))) AND ("alkaline phosphatase"[MeSH Terms] OR ("alkaline"[All Fields] AND "phosphatase"[All Fields]) OR "alkaline phosphatase"[All Fields])) AND ("anti-infective agents"[All Fields] OR "anti-infective agents"[MeSH Terms] OR ("anti-infective"[All Fields] AND "agents"[All Fields]) OR "anti-infective agents"[All Fields] OR "antimicrobial"[All Fields]) |