

INPLASY PROTOCOL

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None declared.

GOLDIC therapy holds promise as an Orthobiologic agent: A systematic review of literature

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Review question / Objective: Population: Human or animal
subjects treated with GOLDIC. Intervention: GOLDIC injection.
Comparator: Placebo or another orthobiologic agent like
Platelet Rich Plasma (PRP) or no control arm. Outcome:
Radiological, function, or histological alterations observed
after the intervention. Study design: Any study design.

Eligibility criteria: The search was done using the keywords:
“Gold”, Gold induced cytokines”, “Gold induced”, “GOLDIC”,
“orthopaedic” and “orthopaedic” along with Boolean
operators “AND”, “OR” and “NOT”. PICOS criteria mentioned
above were considered for the selection of studies from the
search results. Difference of opinion between the authors
regarding the inclusion of studies was dealt with in
discussions and a consensus was reached. References of the
included studies were also searched for additional studies to
be included.

INPLASY registration number: This protocol was registered with
the International Platform of Registered Systematic Review and
Meta-Analysis Protocols (INPLASY) on 07 May 2023 and was last
updated on 07 May 2023 (registration number
INPLASY202350027).

Plasma (PRP) or no control arm. Outcome:
Radiological, function, or histological
alterations observed after the intervention.
Study design: Any study design.

Rationale: To collate the available evidence
on GOLDIC and provide a systematic
review of the literature.

INTRODUCTION

Review question / Objective: Population:
Human or animal subjects treated with
GOLDIC. Intervention: GOLDIC injection.
Comparator: Placebo or another
orthobiologic agent like Platelet Rich

Condition being studied: Gold Induced Cytokine.

METHODS

Search strategy: In June 2022, all the authors performed an independent search of electronic databases - PubMed, Embase, Scopus, Cochrane, and the Web of Science.

Participant or population: Human or animal subjects treated with GOLDIC.

Intervention: GOLDIC injection.

Comparator: Placebo or another orthobiologic agent like Platelet Rich Plasma (PRP) or no control arm.

Study designs to be included: Any study design.

Eligibility criteria: The search was done using the keywords: “Gold”, Gold induced cytokines”, “Gold induced”, “GOLDIC”, “orthopaedic” and “orthopaedic” along with Boolean operators “AND”, “OR” and “NOT”. PICOS criteria mentioned above were considered for the selection of studies from the search results. Difference of opinion between the authors regarding the inclusion of studies was dealt with in discussions and a consensus was reached. References of the included studies were also searched for additional studies to be included.

Information sources: In June 2022, all the authors performed an independent search of electronic databases - PubMed, Embase, Scopus, Cochrane, and the Web of Science.

Main outcome(s): Radiological, function, or histological alterations observed after the intervention.

Quality assessment / Risk of bias analysis: Risk of bias and quality assessment of the included studies were independently done by two authors using the SYRCLE’s risk of bias tool for animal studies, MINORS (Methodological Index for Non Randomized

Studies) tool for studies involving human subjects and RoB 2 tool from Cochrane for randomised studies.

Strategy of data synthesis: The search was done using the keywords: “Gold”, Gold induced cytokines”, “Gold induced”, “GOLDIC”, “orthopaedic” and “orthopaedic” along with Boolean operators “AND”, “OR” and “NOT”. PICOS criteria mentioned above were considered for the selection of studies from the search results. Difference of opinion between the authors regarding the inclusion of studies was dealt with in discussions and a consensus was reached. References of the included studies were also searched for additional studies to be included.

Subgroup analysis: Not performed.

Sensitivity analysis: Not performed.

Language restriction: English.

Country(ies) involved: India.

Keywords: GOLDIC; Gold; Orthobiologics; Gelsolin.

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