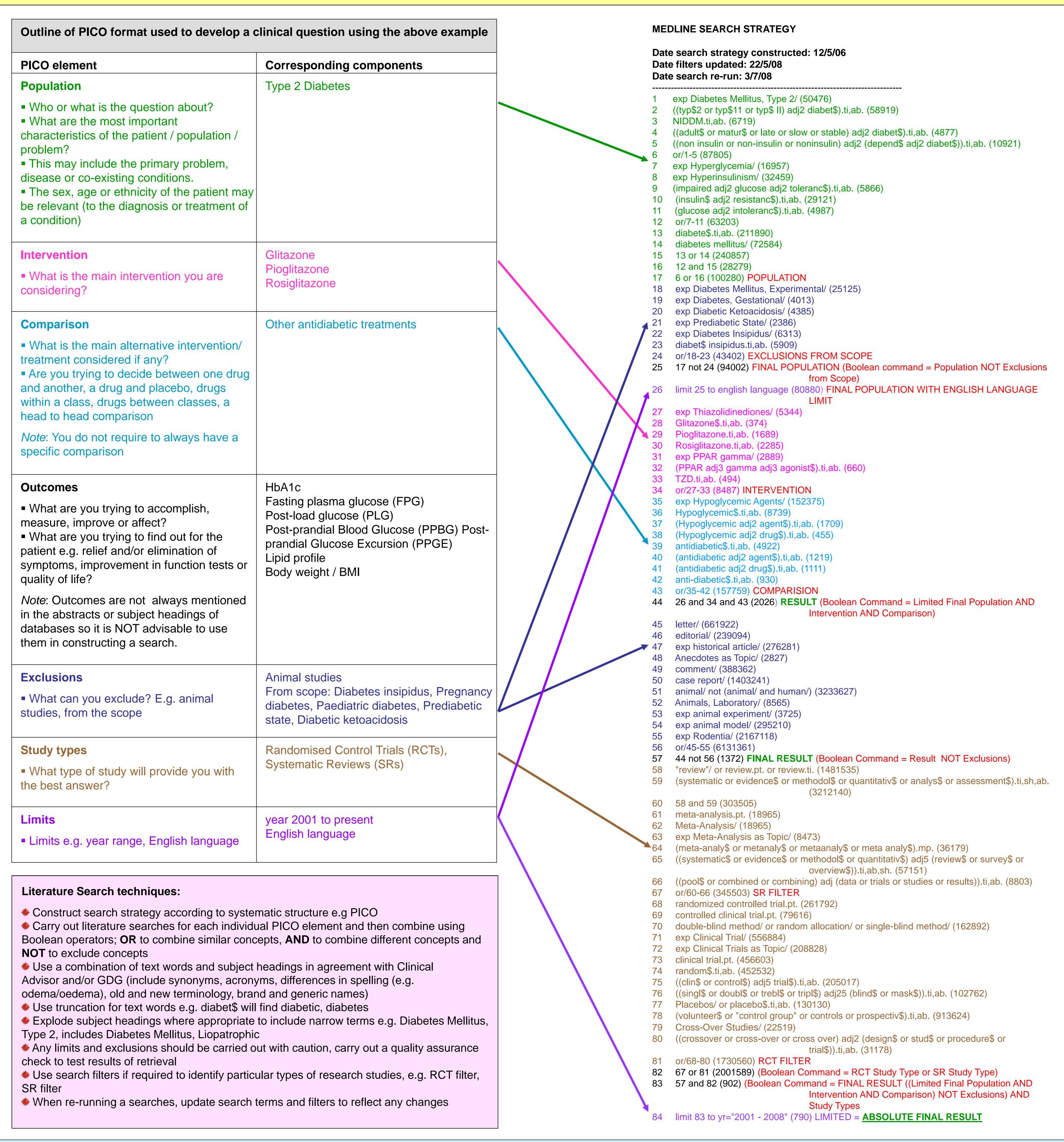
From Clinical Question to Search Strategy: The role of the Information Scientist

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Aim: To show how a clinical question about interventions formulated using the PICO (Population, Intervention, Comparison, Outcome)^{1,2} framework is turned into a systematic search by the Information Scientist in guideline development³

Clinical Question: example taken from the Type 2 Diabetes. National clinical guideline for management in primary and secondary care (update)

Are the glitazones (pioglitazone and rosiglitazone) effective in the control of blood glucose in people with type 2 diabetes either alone or in combination compared to other antidiabetic treatment regimens?



Conclusion

A well constructed clinical question will assist in formulating a rigorous and systematic literature search. To retrieve relevant results and achieve a balance between sensitivity and precision requires specialist Information Scientist skills. The Information Scientist will ensure: a) that all relevant search terms are included in the search strategy (in agreement with the Clinical Advisor and/or GDG) and are updated when required; b) that search terms are in a form that will be retrievable by databases; c) that particular concepts are combined, excluded or limited appropriately.

Quality Assurance: In addition the Information Scientist checks retrospectively that key papers for the clinical question have been retrieved in the literature search.

¹ Sackett, David L. Evidence-Based Medicine: How to Practice and Teach EBM. 2nd edition New York: Churchill Livingstone, 2000

² National Institute for Health and Clinical Excellence. Guidelines Manual. Chapter 5: Developing clinical questions. London:NICE. 2007. Available from: www.nice.org.uk/guidelinesmanual

³ Boynton J. Pledge D. Richards A. Clinical guideline development in England and Wales: the role of the information specialist Poster presented at the 5th Guidelines International Network (G-I-N) Conference, 1–3 October 2008, Helsinki, Finland.