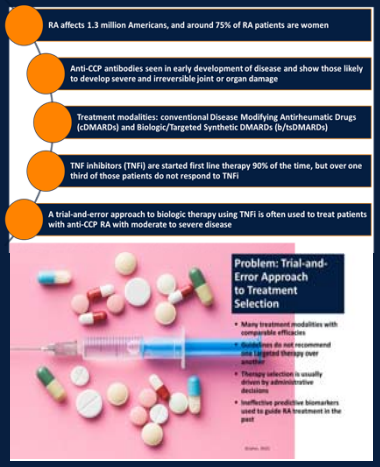
THE UNIVERSITY OF TEXAS AT EL PASO
DOCTOR OF NURSING PRACTICE
SCHOOL OF NURSING

Screening for TNF response prior to initiation of biologic therapy for precise targeted therapy

Miguel A. Rodriguez, MSN, APRN, AGACNP-BC

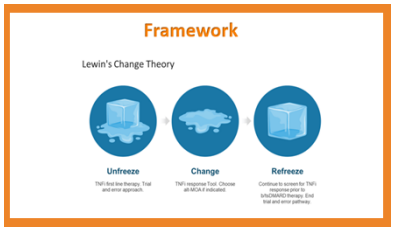
INTRODUCTION

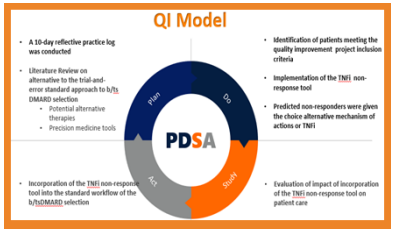


PURPOSE

- Ending the trial-and error approach to prescribe b/tsSMARDs in Rheumatoid Arthritis(RA) patients who are anti-CCP positive.
- Identify true non-responders to TNFi therapy best suited for an alternative mechanism of action (MOA).
- Get patients on the right medication for their specific disease biology sooner to improve outcomes and quality of life.
- Improve clinical decision-making process of b/tsDMARD section to lower healthcare costs, slow disease progression, lower mortality rate, decrease pain, improve function and quality of life by helping patient avoid ineffective drugs.

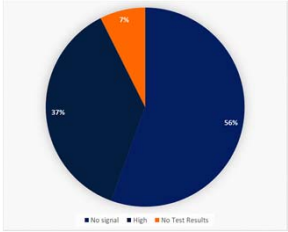
IMPLEMENTATION





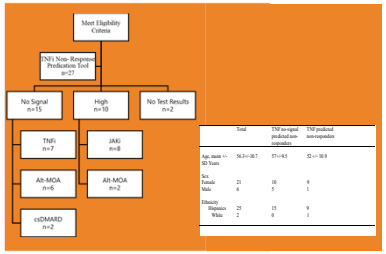
RESULTS

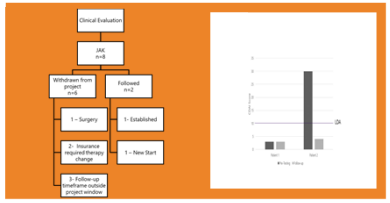
- 27 patients meeting criteria screened
- 15 no signal predicted response
- 10 non-responder predicted response
- 2 no test results



15 No signal predictors
- 7 went on to TNFi
- 6 on alt-MOA
- 2 cont cDMARDs

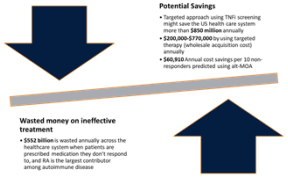
10 Predicted non-responders
- 8 changed to JAKi
- 2 changed to alt-MOA





DISCUSSION

- Predicted therapy guides treatment, reducing adverse effects and avoid treatments with drugs without positive outcomes
- The screening tool allowed for a targeted approach controlling disease in a matter of weeks compared to what could have taken months to figure an out inadequate response before changing therapies.
- The average period to assess TNFi failure can take 9-12 months



LIMITATIONS/ REFERENCES

- Project timeline. Normally, follow ups are two to three months to assess response to therapy. Full response can take up to 6 months
- JAKi therapy has rapid onset but contraindicated in some conditions
- Patients not keeping follow up appointments. Sufficient data could not be collected, and patients were excluded
- Insurance formularies
- Population sample size

DNP Project & References:

A Practice Improvement Project; Evidence Based and Research Supported