

# fP

- We expect the fP approach to be the best, by design
- It shows the upper bounds on effectiveness for this task
- **Can we design a model that can predict which keywords require PICO annotations?**

	Recall	Precision	F3	F1	F0.5	WSS
B	<b>0.7553<sup>P</sup></b>	0.0137 <sup>Pf</sup>	0.0901 <sup>Pf</sup>	0.0255 <sup>Pf</sup>	0.0168 <sup>Pf</sup>	0.0120 <sup>Pf</sup>
P	0.6509 <sup>bcf</sup>	0.0215 <sup>bc</sup>	0.1128 <sup>bc</sup>	0.0375 <sup>bc</sup>	0.0258 <sup>bc</sup>	0.0206 <sup>bc</sup>
cP	0.7002 <sup>Pf</sup>	0.0139 <sup>Pf</sup>	0.0886 <sup>Pf</sup>	0.0257 <sup>Pf</sup>	0.0170 <sup>Pf</sup>	0.0124 <sup>Pf</sup>
fP	<b>0.7553<sup>pc</sup></b>	<b>0.0223<sup>bc</sup></b>	<b>0.1263<sup>bc</sup></b>	<b>0.0400<sup>bc</sup></b>	<b>0.0271<sup>bc</sup></b>	<b>0.0214<sup>bc</sup></b>



1. tomography/
2. tomography, optical coherence/
3. ophthalmoscopy/
4. (optical\$ adj2 coherence\$).tw.
5. OCT.tw.
6. or/1-5
7. exp macular edema/
8. (macula\$ adj3 oedema).tw.
9. (macula\$ adj3 edema).tw.
10. maculopath\$.tw.
11. (CME or CSME or CMO or CSMO).tw.
12. (DMO or DME).tw.
13. or/7-12
14. exp diabetes mellitus/
15. diabetic retinopathy/
16. diabetes complications/
17. diabet\$.tw.
18. retinopath\$.tw.
19. or/14-18
20. 6 and 13 and 19

**P**  
**I**  
**C**  
**O**

# Task 4: Screening Prioritisation

- Trained a learning to rank models using clinical features (PICO) and limited number of QPPs
  - IDFSum, IDFStd, IDFMax, IDFAvg, P-Count, I-Count, O-Count
- Systematic review queries then transformed manually into Elasticsearch queries
- Train 5 LTR models using these features and evaluate the performance of each
  - MART, AdaRank, Coordinate Ascent, LambdaMART, Random Forests
- Compare the difference between queries with PICO features and non-PICO features