

COMPARISON OF INDIRECT TREATMENT FOR FIRST-LINE METASTATIC PANCREATIC CANCER

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There are not head to head clinical trials to compare the main alternatives available to first line **metastatic pancreatic cancer** (mPC).

PURPOSE: To know relative effectiveness of treatments which have demonstrated overall survival increase in mPC

MATERIAL AND METHODS:

- Was performed a search in Pubmed and were selected Phase III trials with overall survival dates in first-line mPC and drugs approved in FDA or EMEA.
- Similarity among trials was assessed according patient-selection criteria, study population and results of control group.
- The effectiveness outcome selected was overall survival.
- Was established a therapeutic equivalence interval: 0.75 to 1.33 using hazard ratio (HR) obtained for sample calculation of erlotinib/gemcitabine study.
- Was determined therapeutic equivalence among treatments according to a previous guideline for positioning of equivalent therapeutic alternative.
- Grades 3 or 4 neutropenia data were used to assess relative safety.
- Bucher's method was used for adjusted therapeutic comparison and the indirect treatment comparison application (ITC), developed by Canadian Agency for Drugs and Technologies in Health (CADTH)

RESULTS:

Three trials were selected: FOLFIRINOX, Nab-paclitaxel/gemcitabine and Erlotinib/gemcitabine treatments compared with gemcitabine alone. They were similar for patient-selection criteria, study population and results of control group. The results are summarized in the table:

STUDIES	OS/ differences of median	HR/p
FOLFIRINOX vs Gemcitabine	11.1 months - 6.8 months 4.3 months	HR= 0.57 (CI95% 0.45 to 0.73) p<0.001
Nab-paclitaxel/ gemcitabina vs Gemcitabina	8.5mons-6.7months 1.8 months	HR= 0.72 (CI95% 0.617 to 0.835) p<0.001
Erlotinib/ gecitabina vs Placebo/ gemcitabina	6.24 monts-5.91 months 0.33 months	HR=0.82 (CI95% 0.69 to 0.99) p=0.038
INDIRECT COMPARISON (IC) Bucher's Method, ITC calculator		
Equivalence interval :(0.75 to 1.33)		
OS	HR (CI 95%)	p
Overall Survival FOLFIRINOX vs Nab-paclitaxel/gemcitabine	HR=0.79 (CI95% 0.6 to 1.05)	p>0.05
Overall Survival Nab-paclitaxel/gemcitabine vs Erlotinib/gemcitabine	HR=0.88 (CI95% 0.74 to 1.04)	p>0.05
Overall Survival Folfinrox vs Erlotinib/gemcitabina	HR=0.70 (CI95% 0.69 to 0.49)	p=0.04
Adverse event	Risk difference (IC 95%)	p
Neutropenia G3/4 FOLFIRINOX vs Nab-paclitaxel/gemcitabine	RAR=13.5% (CI95% 1.7 to 25.3)	p<0.05
Neutropenia G3/4 Nab-paclitaxel/gemcitabine vs Erlotinib/gemcitabine	RAR= -3 % (CI95% -11.5 to 5.5)	p>0.05
Neutropenia G3/4 Folfinrox vs Erlotinib/gemcitabina	RAR=10.7% (CI95% -0.7 to 22.1)	p>0.05

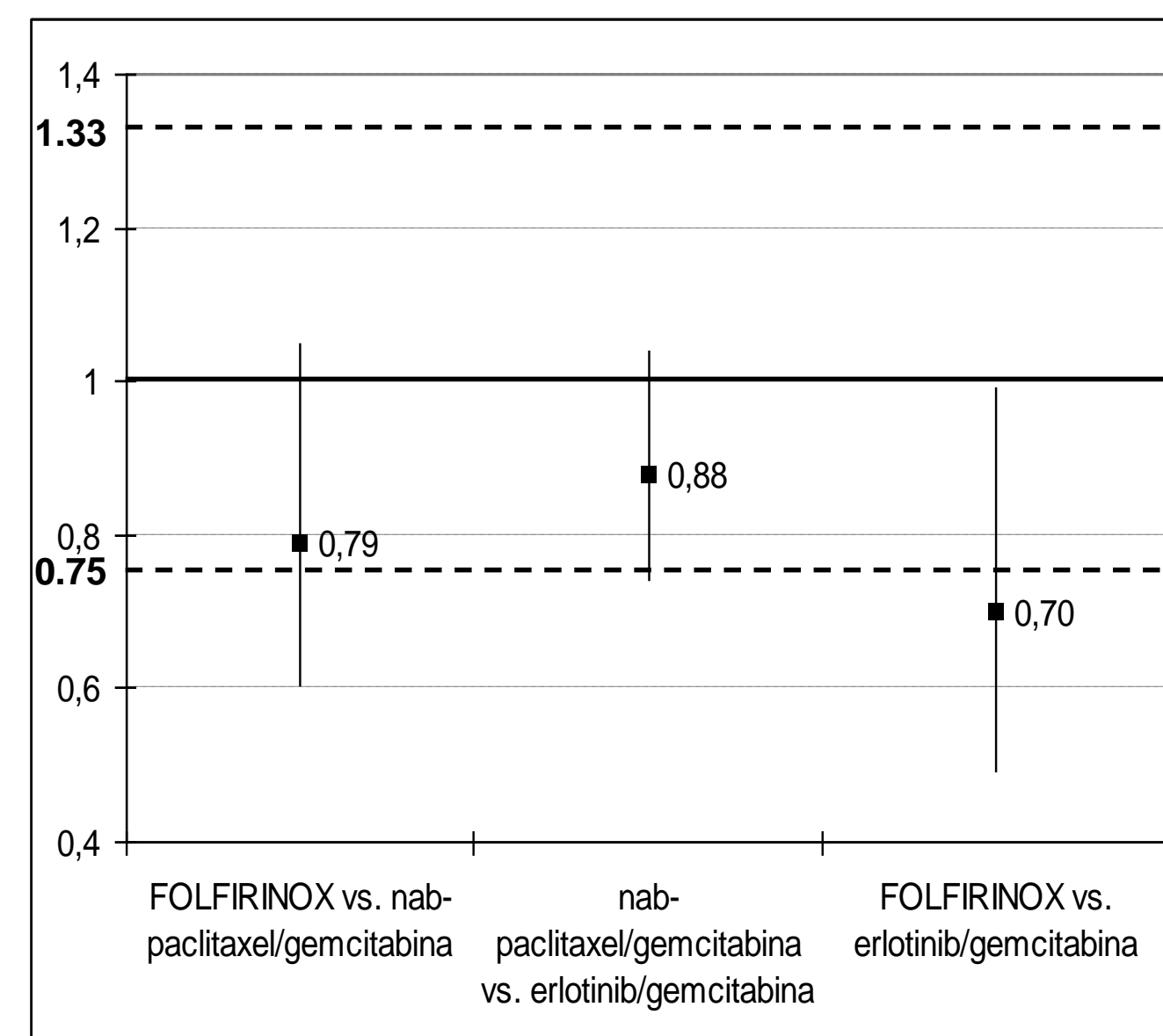


Figure1: Graphical representation IC results.

CONCLUSIONS:

- FOLFIRINOX showed more efficacy than Erlotinib/gemcitabine.
- Erlotinib/gemcitabine and Nab-paclitaxel/gemcitabine are not therapeutic equivalent to FOLFIRINOX
- FOLFIRINOX showed more grade 3/4 neutropenia than Nab-paclitaxel/gemcitabine.