Scientific Research Open Access



Search Keywords, Title, Author, ISBN, ISSN

•							
Home	Journals	Books	Conferences	News	About Us	Jobs	
Home > Journal > Chemistry & Materials Science Medicine & Healthcare > MC					MC Subscription		
Indexing View Papers Aims & Scope Editorial Board Guideline Article Processing Charges					Most popular papers in MC		
MC> Vol.1 No.2, October 2012					About MC News		
OPEN @ACCESSRaltitrexed + irinotecan as second-line chemotherapy in elderlypatients with advanced colorectal cancer					Frequently Asked Questions		
					Recommend to Peers		

PDF (Size: 61KB) PP. 5-10 DOI: 10.4236/mc.2012.12002

Author(s)

Barbara Vandendriessche, Filip Geurs, Ingeborg Hilderson

ABSTRACT

Aims and Background: Irinotecan is a standard option for relapsed/refractory advanced colo- rectal cancer. Combination with raltitrexed and irinotecan at lower than MTD doses should preserve disease stabilisation while decreasing toxicity. Patients and Methods: From January 2004 to April 2009, we analyzed, retrospectively, our data on irinotecan + raltitrexed, fixed doses, as a second-line chemotherapy in elderly pa- tients (>70 years) with advanced colorectal can- cer after failure of oxaliplatin based chemothera- py twenty-three patients were evaluated. Iri- notecan 350 mg + raltitrexed 2.6 mg were given every 3 weeks. Tumo r measurements were ob- tained after every third course of therapy. Toxic- ity was assessed weekly using the National Cancer Institute Common Toxicity Criteria, ver- sion 2. Results: The median number of treatment courses received per patient was 4 (range, 1 - 8). All pa-tients were assessable for toxicity and 21 for response. The most frequently observed severetoxicities were diarrhea (grade 2, 13%) No cases of significant neutropenia occurred. Ob- jective partial responses were observed in 3 pa- tients (13%). An additional 10 patients (43%) had stable disease as their best response. To date, 12 patients have progressed with a median time- to-progression of 4.3 months and a median sur- vival of 8.3 months. Conclusions: A three weekly irinotecan + raltitrexed administration can indu- ce tumor control in elderly patients with advanc- ed colorectalcancer that has progressed during or shortly after oxaliplatin-based chemotherapy. The diarrhea by irinotecan, seems mitigated by coad-ministration of a smaller dose of raltitrexed

KEYWORDS

Colorectal; Elderly; Irinotecan; Second-Line; Unresectable

Cite this paper

Vandendriessche, B., Geurs, F. and Hilderson, I. (2012) Raltitrexed + irinotecan as second-line chemotherapy in elderly patients with advanced colorectal cancer. Modern Chemotherapy, 1, 5-10. doi: 10.4236/mc.2012.12002.

References

- Cunningham, D., Pyrh?nen, S., James, R.D., Punt, C.J.A., Hickish, T.F., Heikkila, R., Johannesenm, T.B., [1] Starkhammar, H., Thopam, C.A., Awad, L., Jacques, C. and Herait, P. (1998) Randomised trial of irinotecan plus supportive care versus supportive care alone after fluor- ouracil failure for patients with metastatic colorectal cancer. Lancet, 352, 1413-1418.
- Rougier, P, Van Cutsem, E., Bajetta, E., Niederle, N., Possinger, K., Labianca, R., Navarro, M., Morant, [2] R., Bleiberg, H., Wils, J., Awad, L., Herait, P. and Jacques, C. (1998) Randomised trial of irinotecan versus fluorouracil by continuous infusion after fluorouracil failure in patients with metastatic colorectal cancer. Lancet, 352, 1407-1412.
- [3] Armand, J.P., Ducreux, M., Mahjoubi, M., Abigerges, D., Bugat, R., Chabot, G., Herait, P., De Forni, M. and Rougier, P. (1995) CPT-11 (irinotecan) in the treatment of colorectal cancer. European Journal of Cancer, 31A, 1283-1287.
- [4] Pitot, H.C., Wender, D.B., O' Connell, M.J., Schroeder, G., Goldberg, R.M., Rubin, J., Mailliard, J.A., Knost, J.A., Ghosh, C., Kirschling, R.J., Levitt, R. and Windschitl, H.E. (1997) Phase II trial ofirinotecan

About Us	;	Jobs				
MC Subscription						
Most popular papers in MC						
About MC News						
Frequently Asked Questions						
Recommend to Peers						
Recommend to Library						
Contact Us						
Downloads:	485					
Visits:	10,9	946				
Sponsors >>						

in patients with metastatic colorectal carcinoma. Journal of Clinical Oncology, 15, 2910-2919.

- [5] Rothenberg, M.L., Cox, J.V., De Vore, R.F., Hainsworth, J.D., Pazdur, R., Rivkin, S.E., Macdonald, J.S., Geyer, C.E., Sandbach, J., Wolf, D.L., Mohrland, J.S., Elfring, G.L., Miller, L.L. and Von Hoff, D.D. (1999) A multicenter, phase II trial of weekly irinotecan (CPT-11) inpatients with previously treated colorectal carcinoma. Cancer, 85, 786-795.
- [6] Schoemaker, N.E., Kuppens, I.E.L.M., Moiseyenko, V., Glimelius, B., Kjaer, M., Starkhammer, H., Richel, D.J., Smaaland, R., Bertelsen, K., Poulsen, J.P., Voznyi, E., Norum, J., Fennelly, D., Tveit, K.M., Garin, A., Gruia, G., Mourier, A., Sibaud, D., Lefebvre, P., Beijnen, J.H., Schellens, J.H. and Bokkel-Huinink, W.W. (2004) A ran- domisedphase II multicentre trial of irinotecan (CPT-11) using four different schedules in patients with metastatic colorectalcancer. British Journal of Cancer, 91, 1434-1441
- [7] Fuchs, C.S., Moore, M.R., Harker, G., Villa, L., Rinaldi, D. and Hecht, J.R. (2003) Phase III comparison of two irinotecan dosing regimensin second-line therapy of me- tastatic colorectal cancer. Journal of Clinical Oncology, 21, 807-814.
- [8] Hwang, J.J., Eisenberg, S.G. and Marshall, J.L. (2003) Improving the toxicity of irinotecan/5-FU/leucovorin: A 21-day schedule. Oncology, 17, 37-43.
- [9] Fentiman, I.S., Tirelli, U., Monfardini, S., Schneider, M., Festen, J., Cognetti, F. and Aapro, M.S. (1990) Cancer in the elderly: why so badly treated. Lancet, 28, 1020-1022.
- [10] Monfardini, S. and Yancik, R. (1993) Cancer in the eld- erly: Meeting the challenge of an aging population. Jour- nal of the National Cancer Institute, 85, 532-538.
- [11] Miller, A.B., Hoogstraten, B., Staquet, M. and Winkler, A. (1981) Reporting results of cancer treatment. Cancer, 47, 207-214.
- [12] Rougier, P., Mitry, E., Cunningham, D., Roth, A., Clavero-Fabri, M.C., Magherini, E., Mery-Mignard, D., Awad, L. and Douillard, J.Y. (2003) Is age a prognostic factor of toxicity and efficacy in patients(pts) with metastatic co- lorectal cancer (MCRC) receiving irinotecan in combina- tion with 5FU/folinic acid (FA). American Society of Clinical Oncology, 22, **-**.
- [13] Chau, I., Norman, A.R., Cunningham, D., Waters, J.S., Topham, C., Middleton, G., Hill, M., Ross, P.J., Katopo- dis, R., Stewart, G. and Oates, J.R. (2004) Elderly patients with fluoropyrimidine andthymidylate synthase inhibitor- resistant advanced colorectal cancer derive similar benefit without excessive toxicity when treated with irinotecan monotherapy. British Journal of Cancer, 91, 1453-1458.
- [14] Rothenberg, M.L., Kuhn, J.G., Burris, H.A., Nelson, J., Eckardt, J.R., Tristan-Morales, M., Hilsenbeck, S.G., Weiss, G.R., Smith, L.S. and Rodriguez, G.I. (1993) Phase I and pharmacokinetic trial of weekly CPT-11. Journal of Clinical Oncology, 11, 2194-2204.
- [15] Abigerges, D., Chabot, G.G., Armand, J.P., Herait, P., Gouyette, A. and Gandia, D. (1995) Phase I and pharma- cologic studies of the camptothecin analog irinotecan administered every 3 weeks in cancer patients. Journal of Clinical Oncology, 13, 210-221.
- [16] Benavides, M., Garcia-Alfonso, P., Cobo, M., Munoz- Martin, A., Gil-Calle, S., Carabantes, F., Villar, E., Graupera, J., Balcells, M. and Perez-Manga, G. (2004) Weekly irinotecan (CPT-11) in 5-FU heavily pretreated and poor-performance-status patients with advanced co- lorectal cancer. Medical Oncology, 21, 255-262.
- [17] Karaoglu, A., Yalcin, S., Tekuzman, G., Kars, A., Celik, I., Guler, N., Ozisik, Y., Turker, A., Barista, I. and Gullu, I. (2003) Weekly irinotecan in patients with metastatic colorectal cancer failing 5-fluorouracilbased chemotherapy: efficacy and prognostic factors. Tumori, 89, 141-145.
- [18] Rougier, P. and Mitry, E. (2000) Colorectal cancer che- motherapy: Irinotecan. Seminars in Oncology, 27, 138- 143.
- [19] Grothey, A., Sargent, D., Goldberg, R.M. and Schmoll, H.J. (2004) Survival of patients with advanced colorectal cancer improves with the availability of fluorouracil- leucovorin, irinotecan, and oxaliplatin in the course of treatment. Journal of Clinical Oncology, 22, 1209-1214.
- [20] Rosati, G. and Cordio, S. (2006) Single agent irinotecan as second line weekly chemotherapy in elderly patients with advanced colorectal cancer. Tumori, 92,290-294.
- [21] Tournigand, C., André, T., Achille, E., Lledo, G., Flesh, M., Mery-Mignard, D., et al. (2004) Folfiri followed by FOLFOX6 or the reverse sequence in advanced colorectal cancer: A randomized GERCOR study. Journal of Clini- cal Oncology, 22, 229-237.

- [22] Louvet, C., André, T., Gamelin, E., Hebbar, M., Mabro, M., Bennamoun, M., Rassam, H. and De Gramont. (2010) Phase II study of biweekly pemetrexed plus irinotecan as second-line therapy for metastatic colorectal cancer. American Journal of Clinical Oncology, *, *.
- [23] Mabro, M., Artru, P., André, T., Flesch, M., Maindrault- Goebel, F., Landi, B., Lledo, G., Plantade, A., Louvet, C. and De Gramont, A. (2006) A phase II study of FOLFIRI-3 (double infusion of irinotecan combined with LV5FU) after FOLFOX in advanced colorectal cancer patients. British Journal of Cancer, 94, 1287-1292.
- [24] Sorbye, H., Berglund, A., MagneTveits, K., Ogreid, D., Hoff Wandere, E., et al. (2007) Secondary treatment and predictive factors for second-line chemotherapy after first-line oxaliplatin-based therapy in metastatic colorec- tal cancer. Acta Oncologica, 46, 982-988.
- [25] Mabro, M., Artru, P., Andre, T., Flesch, M., Maindrault- Goebel, F., Landi, B., Lledo, G., Plantade, A., Louvet, C. and Gramont, A. (2006) A phase II study of FOLFIRI-3 (double infusion of irinotecan combined with LV5FU) after FOLFOX in advanced colorectal cancer patients. British Journal of Cancer, 94, 1287-1292.
- [26] Recchia, F., Nuzzo, A., Lalli, A., Di Lullo, L., De Filippis, S., Saggio, G., Di Blasio, A. and Rea, S. (2003) Multi- center phase II study of CPT-11 fractionated over two days with bimonthly leucovorin and 5fluorouracil in pa- tients with metastatic colorectal cancer. Anti-Cancer Re- search, 23, 2903-2908.

Home | About SCIRP | Sitemap | Contact Us Copyright © 2006-2013 Scientific Research Publishing Inc. All rights reserved.