

# Report COPIKTRA® Duvelisib

Product & Mechanism of action	Authorized indications Licensing status	Essential therapeutic features	NHS impact
<p><b>Substance:</b> duvelisib</p> <p><b>Brand Name:</b> Copiktra®</p> <p><b>Originator/licen see:</b> Verastem Europe GmbH</p> <p><b>Classification:</b> NCE</p> <p><b>ATC code:</b> L01EM04</p> <p><b>Orphan Status:</b> Eu: No Us: Yes</p> <p><b>Mechanism of action:</b> duvelisib is a PI3K inhibitor with dual activity against the PI3K-δ and PI3K-γ isoforms, involved in the proliferation and survival of malignant B-cell lines and primary CLL tumour cells. [1][2]</p>	<p><b>Authorized Indication:</b> <b>EMA:</b> indicated for treatment of adult pts with RR CLL after at least two prior therapies. [1]</p> <p><b>FDA:</b> duvelisib is indicated for the treatment of adult pts with RR CLL or SLL after at least two prior therapies. [2]</p> <p><b>Route of administration:</b> OS</p> <p><b>Licensing status:</b> <b>EU CHMP P.O. date:</b> 25/03/2021 <b>FDA M.A. date:</b> 24/09/2018</p> <p><b>EU Speed Approval Pathway:</b> No</p> <p><b>FDA Speed Approval Pathway:</b> Yes</p> <p><b>ABBREVIATIONS:</b> <b>AE:</b> adverse event <b>CHMP:</b> committee for medicinal products for human use <b>CIT:</b> chemoimmunotherapy <b>CLL:</b> chronic lymphocytic leukaemia <b>IRC:</b> independent review committee <b>M.A.:</b> marketing authorization <b>OS:</b> oral administration <b>PFS:</b> progression-free survival <b>PI3K:</b> phosphatidylinositol 3-kinase <b>P.O.:</b> positive opinion <b>pts:</b> patients <b>RR:</b> relapsed or refractory <b>SLL:</b> small lymphocytic lymphoma <b>URTI:</b> upper respiratory tract infection</p>	<p><b>Summary of clinical EFFICACY:</b> Efficacy in RR CLL/SLL is based on the results of DUO (NCT02004522), a phase 3, randomized, open-label trial comparing duvelisib monotherapy with ofatumumab monotherapy in adult pts with RR CLL (n=312) or SLL (n=7) after at least one prior therapy. Pts were randomized 1:1 to oral duvelisib 25 mg twice daily (n=160) or ofatumumab IV (n=159). The primary endpoint was PFS as determined by IRC. Pts in the duvelisib arm had a median PFS of 13.3 months (95% CI: 12.1, 16.8) whereas pts in the ofatumumab arm had a median PFS of 9.9 months (95% CI: 9.2, 11.3), with a HR of 0.52 (95% CI: 0.39, 0.70; p&lt;0.0001). [3][4]</p> <p><b>Summary of clinical SAFETY:</b> Nearly all pts in both arms experienced an AE. The most common AEs were diarrhoea (51% vs 12% in the ofatumumab group), neutropenia (33% vs 21%), pyrexia (29% vs 10%), nausea (23% vs 11%), anemia (23% vs 10%) and cough (21% vs 14%). AEs ≥grade 3 occurred in 87% of duvelisib arm pts and 48% of ofatumumab arm pts. In the duvelisib arm, the most common severe events were neutropenia (30%), diarrhoea (15%), pneumonia (14%) and anemia (13%). Infectious AEs were more frequently reported in the duvelisib arm (69% vs 43%) with pneumonia (18%) and URTI (16%) representing the most common events. Pneumonia was the most frequently reported serious AE in both treatment arms (duvelisib 15% vs ofatumumab 3%). 55 pts (35%) discontinued duvelisib because of AEs. There were 19 fatal AEs (12%) on the duvelisib arm, four of which were assessed by investigators as related to study drug. On the ofatumumab arm, seven pts (5%) had fatal AEs, although none were attributed to ofatumumab treatment. [3]</p> <p><b>Ongoing studies:</b></p> <ul style="list-style-type: none"> <li><b>For the same indication:</b> Yes</li> <li><b>For other indications:</b> Yes</li> </ul> <p><b>Discontinued studies (for the same indication):</b> Yes</p> <p>-----</p> <p><b>References:</b></p> <ol style="list-style-type: none"> <li><a href="https://www.ema.europa.eu/en/medicines/human/summaries-opinion/copiktra">https://www.ema.europa.eu/en/medicines/human/summaries-opinion/copiktra</a></li> <li><a href="https://www.accessdata.fda.gov/drugsatfda_docs/label/2018/211155s000lbl.pdf">https://www.accessdata.fda.gov/drugsatfda_docs/label/2018/211155s000lbl.pdf</a></li> <li>Flinn IW, Hillmen P, et al.: The phase 3 DUO trial: duvelisib vs ofatumumab in relapsed and refractory CLL/SLL. Blood. 2018; 132(23): 2446-2455</li> <li><a href="https://www.accessdata.fda.gov/drugsatfda_docs/nda/2018/211155Orig1Orig2s000MultidisciplineR.pdf">https://www.accessdata.fda.gov/drugsatfda_docs/nda/2018/211155Orig1Orig2s000MultidisciplineR.pdf</a></li> <li><a href="https://www.osservatoriomalattierare.it/i-tumori-rari/leucemia-linfatica-cronica">https://www.osservatoriomalattierare.it/i-tumori-rari/leucemia-linfatica-cronica</a></li> <li><a href="https://www.annalsofoncology.org/article/S0923-7534(20)42469-X/pdf">https://www.annalsofoncology.org/article/S0923-7534(20)42469-X/pdf</a></li> <li><a href="https://www.ema.europa.eu/en/documents/public-statement/public-statement-arzerra-withdrawal-marketing-authorisation-european-union_en.pdf">https://www.ema.europa.eu/en/documents/public-statement/public-statement-arzerra-withdrawal-marketing-authorisation-european-union_en.pdf</a></li> <li><a href="https://adisinsight.springer.com/drugs/800035173">https://adisinsight.springer.com/drugs/800035173</a></li> <li><a href="https://clinicaltrials.gov/ct2/results?cond=&amp;term=&amp;type=&amp;rslt=&amp;recrs=b&amp;recrs=a&amp;recrs=f&amp;recrs=d&amp;recrs=e&amp;age_v=&amp;gndr=&amp;intr=D&amp;uvelisib&amp;titles=&amp;outc=&amp;spons=&amp;lead=&amp;id=&amp;cntry=&amp;state=&amp;city=&amp;dist=&amp;locn=&amp;phase=1&amp;phase=2&amp;rsub=&amp;strd_s=&amp;strd_e=&amp;prcd_s=&amp;prcd_e=&amp;sfpd_s=&amp;sfpd_e=&amp;rfdp_s=&amp;rfdp_e=&amp;lupd_s=&amp;lupd_e=&amp;sort=">https://clinicaltrials.gov/ct2/results?cond=&amp;term=&amp;type=&amp;rslt=&amp;recrs=b&amp;recrs=a&amp;recrs=f&amp;recrs=d&amp;recrs=e&amp;age_v=&amp;gndr=&amp;intr=D&amp;uvelisib&amp;titles=&amp;outc=&amp;spons=&amp;lead=&amp;id=&amp;cntry=&amp;state=&amp;city=&amp;dist=&amp;locn=&amp;phase=1&amp;phase=2&amp;rsub=&amp;strd_s=&amp;strd_e=&amp;prcd_s=&amp;prcd_e=&amp;sfpd_s=&amp;sfpd_e=&amp;rfdp_s=&amp;rfdp_e=&amp;lupd_s=&amp;lupd_e=&amp;sort=</a></li> <li><a href="https://clinicaltrials.gov/ct2/results?cond=Chronic+Lymphocytic+Leukemia&amp;term=&amp;cntry=&amp;state=&amp;city=&amp;dist=&amp;recrs=a&amp;recrs=b&amp;recrs=d&amp;recrs=e&amp;recrs=f&amp;phase=2">https://clinicaltrials.gov/ct2/results?cond=Chronic+Lymphocytic+Leukemia&amp;term=&amp;cntry=&amp;state=&amp;city=&amp;dist=&amp;recrs=a&amp;recrs=b&amp;recrs=d&amp;recrs=e&amp;recrs=f&amp;phase=2</a></li> </ol>	<p><b>Cost of Therapy:</b> not available.</p> <p><b>Epidemiology:</b> CLL is the most common leukaemia in the Western world, with an annual incidence of 2-6/100'000. The incidence increases to 12.8/100'000/year at the age of 65, the median age of diagnosis. [5]</p> <p>-----</p> <p><b>POSSIBLE PLACE IN THERAPY</b> The treatment regimens recommended for RR CLL are: -venetoclax+rituximab for 24 months -ibrutinib or acalabrutinib as continuous therapy -idelalisib+rituximab -CIT. [6] In 2019 the M.A. for Arzerra® (ofatumumab) has been withdrawn in the EU at the request of the M.A. holder (commercial reasons). [7]</p> <p><b>OTHER INDICATIONS IN DEVELOPMENT:</b> Non-Hodgkin's lymphoma, hematological malignancies, peripheral T-cell lymphoma. [8][9]</p> <p><b>SAME INDICATION IN EARLIER LINE(S) OF TREATMENT:</b> No</p> <p><b>OTHER DRUGS IN DEVELOPMENT for the SAME INDICATION</b> Ublituximab, zanubrutinib, dinaciclib, orelabrutinib, umbralisib, pirtobrutinib. [8][10]</p> <p>*Service reorganization: No *Possible off label use: Yes</p>