

**Approval Date:** [May 17, 2019](#)

**Product:** SHINGRIX

**Proper Name:** Zoster Vaccine Recombinant, Adjuvanted

**Manufacturer:** GlaxoSmithKline Biologicals

**Indication:** Indicated for prevention of herpes zoster (shingles) in adults aged 50 years and older.

**Description:**

SHINGRIX (Zoster Vaccine Recombinant, Adjuvanted) is a sterile suspension for intramuscular injection. The vaccine is supplied as a vial of lyophilized recombinant varicella zoster virus surface glycoprotein E (gE) antigen component, which must be reconstituted at the time of use with the accompanying vial of AS01B adjuvant suspension component.

**Approval Date:** May 17, 2019 | September 18, 2018 | October 20, 2017

**BLA:** 125614

**Regulatory Milestone:** No data available

**PDUFA Goal Date:** October 21, 2017

**Package Insert:** [Package Insert - SHINGRIX](#)

**Summary Basis for Regulatory Approval:** [October 20, 2017 Summary Basis for Regulatory Action - SHINGRIX](#)

**European Public Assessment Report:** [January 25, 2018 Assessment report - SHINGRIX](#)

**Advisory Committee:**

A Vaccines and Related Biological Products Committee (VRBPAC) meeting was convened on [September 13, 2017](#). The Committee voted unanimously (11 votes) that the efficacy and safety data supported the licensure of SHINGRIX for prevention of HZ in individuals 50 years of age and older.

**Safety:** No data available

**NCT Numbers:**

- NCT00434577
- NCT02690207
- NCT04210752
- NCT03493776
- NCT03953196
- NCT04176939
- NCT04091451
- NCT03886038
- NCT03771157
- NCT04047979
- NCT04403139
- NCT04169009
- NCT03894969
- NCT03798691
- NCT03993717
- NCT03591770
- NCT04128189
- NCT03702231
- NCT04523246

**EudraCT Numbers:**

- 2019-002529-31
- 2018-002977-24
- 2016-000744-34
- 2019-001815-21
- 2015-003333-95

**Publications:**

- Lal, H., Zahaf, T., & Heineman, T. C. (2013). Safety and immunogenicity of an AS01-adjuvanted varicella zoster virus subunit candidate vaccine (HZ/su): a phase-I, open-label study in Japanese adults. *Human vaccines & immunotherapeutics*, 9(7), 1425–1429. <https://doi.org/10.4161/hv.24269>

- Stadtmauer, E. A., Sullivan, K. M., Marty, F. M., Dadwal, S. S., Papanicolaou, G. A., Shea, T. C., Mossad, S. B., Andreadis, C., Young, J. A., Buadi, F. K., El Idrissi, M., Heineman, T. C., & Berkowitz, E. M. (2014). A phase 1/2 study of an adjuvanted varicella-zoster virus subunit vaccine in autologous hematopoietic cell transplant recipients. *Blood*, 124(19), 2921–2929. <https://doi.org/10.1182/blood-2014-04-573048>
- Berkowitz, E. M., Moyle, G., Stellbrink, H. J., Schürmann, D., Kegg, S., Stoll, M., El Idrissi, M., Oostvogels, L., Heineman, T. C., & Zoster-015 HZ/su Study Group (2015). Safety and immunogenicity of an adjuvanted herpes zoster subunit candidate vaccine in HIV-infected adults: a phase 1/2a randomized, placebo-controlled study. *The Journal of infectious diseases*, 211(8), 1279–1287. <https://doi.org/10.1093/infdis/jiu606>
- Lal, H., Cunningham, A. L., Godeaux, O., Chlibek, R., Díez-Domingo, J., Hwang, S. J., Levin, M. J., McElhaney, J. E., Poder, A., Puig-Barberà, J., Vesikari, T., Watanabe, D., Weckx, L., Zahaf, T., Heineman, T. C., & ZOE-50 Study Group (2015). Efficacy of an adjuvanted herpes zoster subunit vaccine in older adults. *The New England journal of medicine*, 372(22), 2087–2096. <https://doi.org/10.1056/NEJMoa1501184>
- Cunningham, A. L., Lal, H., Kovac, M., Chlibek, R., Hwang, S. J., Díez-Domingo, J., Godeaux, O., Levin, M. J., McElhaney, J. E., Puig-Barberà, J., Vanden Abeele, C., Vesikari, T., Watanabe, D., Zahaf, T., Ahonen, A., Athan, E., Barba-Gomez, J. F., Campora, L., de Looze, F., Downey, H. J., ... ZOE-70 Study Group (2016). Efficacy of the Herpes Zoster Subunit Vaccine in Adults 70 Years of Age or Older. *The New England journal of medicine*, 375(11), 1019–1032. <https://doi.org/10.1056/NEJMoa1603800>
- Vink, P., Shiramoto, M., Ogawa, M., Eda, M., Douha, M., Heineman, T., & Lal, H. (2017). Safety and immunogenicity of a Herpes Zoster subunit vaccine in Japanese population aged  $\geq 50$  years when administered subcutaneously vs. intramuscularly. *Human vaccines & immunotherapeutics*, 13(3), 574–578. <https://doi.org/10.1080/21645515.2016.1232787>
- Godeaux, O., Kovac, M., Shu, D., Gruppig, K., Campora, L., Douha, M., Heineman, T. C., & Lal, H. (2017). Immunogenicity and safety of an adjuvanted herpes zoster subunit candidate vaccine in adults  $\geq 50$  years of age with a prior history of herpes zoster: A

- phase III, non-randomized, open-label clinical trial. *Human vaccines & immunotherapeutics*, 13(5), 1051–1058. <https://doi.org/10.1080/21645515.2016.1265715>
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  - Lal, H., Poder, A., Campora, L., Geeraerts, B., Oostvogels, L., Vanden Abeele, C., & Heineman, T. C. (2018). Immunogenicity, reactogenicity and safety of 2 doses of an adjuvanted herpes zoster subunit vaccine administered 2, 6 or 12 months apart in older adults: Results of a phase III, randomized, open-label, multicenter study. *Vaccine*, 36(1), 148–154. <https://doi.org/10.1016/j.vaccine.2017.11.019>
  - Grunning, K., Campora, L., Douha, M., Heineman, T. C., Klein, N. P., Lal, H., Peterson, J., Vastiau, I., & Oostvogels, L. (2017). Immunogenicity and Safety of the HZ/su Adjuvanted Herpes Zoster Subunit Vaccine in Adults Previously Vaccinated With a Live Attenuated Herpes Zoster Vaccine. *The Journal of infectious diseases*, 216(11), 1343–1351. <https://doi.org/10.1093/infdis/jix482>
  - Schwarz, T. F., Aggarwal, N., Moeckesch, B., Schenkenberger, I., Claeys, C., Douha, M., Godeaux, O., Grunning, K., Heineman, T. C., Fauqued, M. L., Oostvogels, L., Van den Steen, P., & Lal, H. (2017). Immunogenicity and Safety of an Adjuvanted Herpes Zoster Subunit Vaccine Coadministered With Seasonal Influenza Vaccine in Adults Aged 50 Years or Older. *The Journal of infectious diseases*, 216(11), 1352–1361. <https://doi.org/10.1093/infdis/jix481>
  - Schwarz, T. F., Volpe, S., Catteau, G., Chlibek, R., David, M. P., Richardus, J. H., Lal, H., Oostvogels, L., Pauksens, K., Ravault, S., Rombo, L., Sonder, G., Smetana, J., Heineman, T., & Bastidas, A. (2018). Persistence of immune response to an adjuvanted varicella-zoster virus subunit vaccine for up to year nine in older adults. *Human vaccines & immunotherapeutics*, 14(6), 1370–1377. <https://doi.org/10.1080/21645515.2018.1442162>
  - Cunningham, A. L., Heineman, T. C., Lal, H., Godeaux, O., Chlibek, R., Hwang, S. J., McElhaney, J. E., Vesikari, T., Andrews, C., Choi, W. S., Esen, M., Ikematsu, H., Choma, M. K., Pauksens, K., Ravault, S., Salaun, B., Schwarz, T. F., Smetana, J.,

Abeele, C. V., Van den Steen, P., ... ZOE-50/70 Study Group (2018). Immune Responses to a Recombinant Glycoprotein E Herpes Zoster Vaccine in Adults Aged 50 Years or Older. *The Journal of infectious diseases*, 217(11), 1750–1760.

<https://doi.org/10.1093/infdis/jiy095>

- Vink, P., Delgado Mingorance, I., Maximiano Alonso, C., Rubio-Viqueira, B., Jung, K. H., Rodriguez Moreno, J. F., Grande, E., Marrupe Gonzalez, D., Lowndes, S., Puente, J., Kristeleit, H., Farrugia, D., McNeil, S. A., Campora, L., Di Paolo, E., El Idrissi, M., Godeaux, O., López-Fauqued, M., Salaun, B., Heineman, T. C., ... Zoster-028 Study Group (2019). Immunogenicity and safety of the adjuvanted recombinant zoster vaccine in patients with solid tumors, vaccinated before or during chemotherapy: A randomized trial. *Cancer*, 125(8), 1301–1312. <https://doi.org/10.1002/cncr.31909>