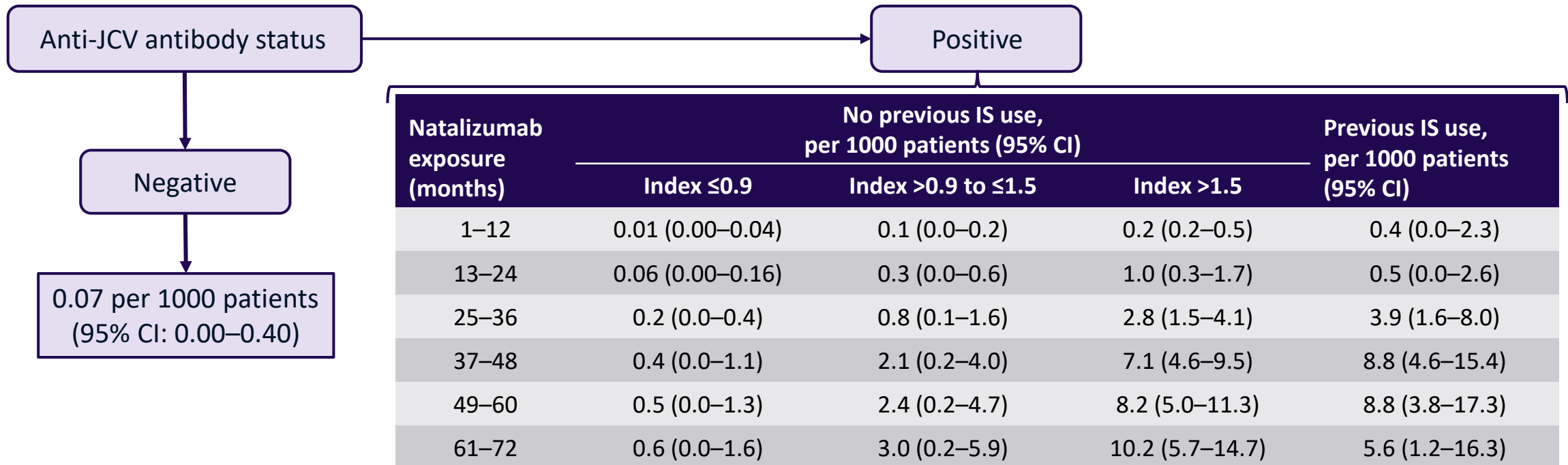


Natalizumab-Associated PML



Conditional probability of developing PML based on known risk factors
(latest published risk estimates)



PML, progressive multifocal leukoencephalopathy; JCV, John Cunningham virus; IS=immunosuppressant.
Ho PR et al. *Lancet Neurol.* 2017;16:925-933.

Strategies for Mitigating Risk of Natalizumab-Associated PML



Risk of PML if natalizumab is continued



Risk of increased/recurrent disease activity if natalizumab is discontinued

Monitoring¹

- Clinical vigilance
- Screening every 3–4 months with an abbreviated MRI protocol
 - (ie, fluid-attenuated inversion recovery, T2-weighted, and diffusion-weighted imaging)

Extended-interval dosing^{2,3}

- Real-world studies and the randomized NOVA study suggest dosing can be extended to every 6 weeks in most patients who are stable on 4-week dosing without clinically meaningful loss of efficacy²
- Analysis of data from the TOUCH program showed clinically and statistically significantly lower PML risk with extended-interval dosing³

Switching^{4,5}

- Associated with greater risk if carry-over PML develops
- Washout periods longer than 4 weeks associated with higher reactivation of disease activity (relapse and/or MRI)
- Bridging options include intermittent methylprednisolone or an oral agent for 6–12 months before switching to another monoclonal antibody

PML, progressive multifocal leukoencephalopathy; TOUCH, Tysabri (natalizumab) Outreach: Unified Commitment to Health.

1. Wattjes MP et al. *Lancet Neurol.* 2021;20:653-6702; 2. Foley JF et al. *Lancet Neurol.* 2022;21:608-619; 3. Ryerson LZ et al. *Neurology.* 2019;93:e1452-e1462;

4. Giovannoni G et al. *Pract Neurol.* 2016;16:389-393; 5. Havla J et al. *Ther Clin Risk Manag.* 2013;9:361-369.