# Assessing potential impact of Aducanumab on lifetime risks of Alzheimer's Dementia

#### Introduction

The drug Aducanumab was recently approved by the Federal Drug Administration (FDA) for use in people with mild cognitive impairment (MCI) who also have a significant buildup of Amyloid plaque in the brain. The drug is designed to reduce Amyloid plague buildup, which hopefully slows the progression from MCI to early-stage Alzheimer's disease (AD) dementia.

Here we assess the potential impact of Aducanumab using a multistate model for AD dementia. The states in the model are

- 1. Normal
- 2. Amyloidosis (A)
- 3. Neurodegeneration (N)
- 4. A + N
- 5. A + N + MCI
- 6. N + MCI
- 7. AD dementia.

We assume a set of potential drug effects on the probability of transitioning from state 5 (A + N + MCI) to state 7 (AD dementia), with potential relative risks (RRs) of 0.95, 0.9, and 0.75. We calculate lifetime and ten-year risks of developing AD dementia for each of these RRs, to be compared with an RR of 1 (no drug effect). We also calculate lifetime and ten-year risks under the assumption that Aducanumab takes effect without delay or with a 2-year delay.

#### Lifetime risks: females

Below are tables for female lifetime risks of AD dementia for ages  $\in$  (60, 65, ..., 95) for each potential RR in descending order (1, 0.95, 0.90, 0.75). There are two tables for each RR (except RR = 1) and sex: the first has a two-year delay until the intervention takes effect. The second has no delay.

Table 1: Lifetime risks of AD dementia if Aducanumab has no treatment effect

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	20.14~%	30.97~%	30.27~%	41.87~%	95.63~%	78.08 %
65	18.73~%	29.29~%	27.58~%	40.8~%	93.57 %	71.41~%
70	16.63~%	26.86~%	24.45~%	38.9~%	90.06~%	63.02~%
75	13.82~%	23.52~%	20.8~%	35.85~%	84.71 %	53.17~%
80	10.42~%	19.09 %	16.54~%	31.19~%	76.19~%	41.99~%
85	7.07~%	13.77 %	11.87~%	24.69 %	63.81 %	30.33~%
90	4.14~%	8.39 %	7.31~%	16.87 %	46.68 %	19.1 %
95	2.07 %	4.27 %	3.82 %	9.91 %	29.89 %	10.76 %

Table 2: Lifetime risks of AD dementia if Aducanumab has an RR of 0.95 with 2-year delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	19.74 %	30.43 %	29.89 %	41.3 %	95.47 %	78.08 %
65	18.34~%	28.74~%	27.19~%	40.2~%	93.33~%	71.41~%
70	16.25~%	26.31~%	24.04~%	38.25~%	89.72 %	63.02~%
75	13.47~%	22.97~%	20.38~%	35.17~%	84.25 %	53.17~%
80	10.12~%	18.57~%	16.14~%	30.48~%	75.64~%	41.99~%
85	6.83~%	13.33~%	11.52~%	24.03~%	63.26 %	30.33~%
90	3.99~%	8.08~%	7.05~%	16.38~%	46.3 %	19.1~%
95	1.98 %	4.09~%	3.67~%	9.62~%	29.73 %	10.76~%

Table 3: Lifetime risks of AD dementia if Aducanumab has an RR of 0.95 with no delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	19.74 %	30.43 %	29.89 %	41.3 %	95.34 %	78.08 %
65	18.34~%	28.74~%	27.19~%	40.2~%	93.14~%	71.41~%
70	16.25~%	26.31~%	24.04~%	38.25~%	89.43 %	63.02~%
75	13.47~%	22.97~%	20.38~%	35.16~%	83.81 %	53.17~%
80	10.12~%	18.57~%	16.14~%	30.46~%	74.99 %	41.99~%
85	6.83~%	13.33~%	11.52~%	23.98~%	62.36 %	30.33~%
90	3.99 %	8.08~%	7.05~%	16.29~%	45.25 %	19.1~%
95	1.98 %	4.09~%	3.67~%	9.5~%	28.75 %	10.76~%

Table 4: Lifetime risks of AD dementia if Aducanumab has an RR of 0.9 with 2-year delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	19.31 %	29.85 %	29.49 %	40.69 %	95.28 %	78.08 %
65	17.91~%	28.15~%	26.76~%	39.54~%	93.06~%	71.41~%
70	15.84~%	25.71~%	23.61~%	37.56~%	89.35~%	63.02~%
75	13.1~%	22.38~%	19.94~%	34.43~%	83.75 %	53.17~%
80	9.8~%	18.02~%	15.72~%	29.73 %	75.04~%	41.99~%
85	6.59~%	12.87~%	11.16~%	23.34~%	62.67 %	30.33~%
90	3.83~%	7.76~%	6.79 %	15.86~%	45.9 %	19.1~%
95	1.89 %	3.91~%	3.51~%	9.34~%	29.56~%	10.76~%

Table 5: Lifetime risks of AD dementia if Aducanumab has an RR of 0.9 with no delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	19.31 %	29.85 %	29.49 %	40.68 %	95.01 %	78.08 %
65	17.91~%	28.15~%	26.76~%	39.54~%	92.65 %	71.41~%
70	15.84~%	25.71~%	23.61~%	37.55~%	88.72 %	63.02~%
75	13.1~%	22.38~%	19.94~%	34.41~%	82.82~%	53.17~%
80	9.8~%	18.02~%	15.72~%	29.69~%	73.69 %	41.99~%
85	6.59~%	12.87~%	11.16~%	23.24~%	60.82~%	30.33~%
90	3.83~%	7.76~%	6.79 %	15.68~%	43.75 %	19.1~%
95	1.89 %	3.91~%	3.51~%	9.09~%	27.57 %	10.76 %

Table 6: Lifetime risks of AD dementia if Aducanumab has an RR of 0.75 with 2-year delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	17.84 %	27.81 %	28.08 %	38.47 %	94.53 %	78.08 %
65	16.48~%	26.1~%	25.31~%	37.22~%	92~%	71.41~%
70	14.48~%	23.66~%	22.12~%	35.1~%	87.89 %	63.02~%
75	11.87~%	20.38~%	18.46~%	31.87~%	81.88 %	53.17~%
80	8.78~%	16.2~%	14.32~%	27.18~%	72.93 %	41.99~%
85	5.82~%	11.38~%	9.98~%	21.06~%	60.69 %	30.33~%
90	3.33~%	6.74~%	5.96~%	14.22~%	44.63 %	19.1~%
95	1.62~%	3.34~%	3.02~%	8.45~%	29.04~%	10.76~%

Table 7: Lifetime risks of AD dementia if Aducanumab has an RR of 0.75 with no delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	17.84 %	27.81 %	28.08 %	38.47 %	93.65 %	78.08 %
65	16.48~%	26.1~%	25.31~%	37.21~%	90.7~%	71.41~%
70	14.48~%	23.66~%	22.12~%	35.08~%	85.96~%	63.02~%
75	11.87~%	20.38~%	18.46~%	31.81~%	79.07~%	53.17~%
80	8.78~%	16.2~%	14.32~%	27.04~%	68.96~%	41.99~%
85	5.82~%	11.38~%	9.98~%	20.78~%	55.51 %	30.33~%
90	3.33~%	6.74~%	5.96~%	13.73 %	38.83~%	19.1~%
95	1.62~%	3.34~%	3.02~%	7.81~%	23.87 %	10.76 %

## Ten-year risks: females

Below are tables of female ten-year risks of AD dementia for each RR in descending order.

Table 8: Ten-year risks of AD dementia if Aducanumab has an RR of  $1\,$ 

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.2 %	1.26 %	3.6 %	7.07 %	93.47 %	57.22 %
65	0.47~%	2.5~%	4.32~%	10.71~%	91.72~%	55.35~%
70	1.07~%	4.65~%	5.52~%	15.5~%	88.64~%	52.24~%
75	2.2~%	7.83~%	7.33~%	20.79 %	83.83 %	47.4~%
80	3.68~%	11.05~%	9.34~%	24.43~%	75.84~%	39.97~%
85	4.68~%	11.5~%	9.67~%	23.1~%	63.74~%	30~%
90	3.84~%	8.17~%	7.07~%	16.76~%	46.68~%	19.09~%
95	2.06~%	4.27~%	3.82~%	9.9~%	29.89 %	10.76~%

Table 9: Ten-year risks of AD dementia if Aducanumab has an RR of 0.95 with 2-year delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.2 %	1.22 %	3.59 %	6.9 %	92.93 %	57.22 %
65	0.46~%	2.42~%	4.28~%	10.45~%	91.16~%	55.35~%
70	1.04~%	4.5~%	5.44~%	15.12~%	88.07~%	52.24~%
75	2.13~%	7.58~%	7.17~%	20.27~%	83.23 %	47.4~%
80	3.56~%	10.69~%	9.09~%	23.8~%	75.23 %	39.97~%
85	4.52~%	11.11~%	9.38~%	22.46~%	63.18 %	30 %
90	3.69~%	7.86~%	6.83~%	16.26~%	46.29 %	19.09 %
95	1.98~%	4.09~%	3.67~%	9.62~%	29.73 %	10.76~%

Table 10: Ten-year risks of AD dementia if Aducanumab has an RR of 0.95 with no delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.2 %	1.22 %	3.59 %	6.9 %	92.68 %	57.22 %
65	0.46~%	2.42~%	4.28~%	10.44~%	90.87~%	55.35~%
70	1.04~%	4.5~%	5.44~%	15.12~%	87.71 %	52.24~%
75	2.13~%	7.58~%	7.17~%	20.26~%	82.75 %	47.4~%
80	3.56~%	10.69~%	9.09~%	23.77 %	74.57~%	39.97 %
85	4.52~%	11.11~%	9.38~%	22.41~%	62.29 %	30 %
90	3.69 %	7.86~%	6.83~%	16.17~%	45.24~%	19.09 %
95	1.98 %	4.09~%	3.67~%	9.5~%	28.75 %	10.76 %

Table 11: Ten-year risks of AD dementia if Aducanumab has an RR of 0.9 with 2-year delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.19 %	1.18 %	3.57~%	6.72~%	92.3 %	57.22 %
65	0.45~%	2.33~%	4.24~%	10.17~%	90.53~%	55.35~%
70	1.01~%	4.35~%	5.36~%	14.71~%	87.43 %	52.24~%
75	2.06~%	7.32~%	7.01~%	19.72~%	82.57 %	47.4~%
80	3.44~%	10.32~%	8.84~%	23.13~%	74.58~%	39.97 %
85	4.35~%	10.7~%	9.07~%	21.8~%	62.59 %	30 %
90	3.54~%	7.55~%	6.57~%	15.75~%	45.9 %	19.09 %
95	1.89 %	3.91~%	3.51~%	9.34~%	29.56 %	10.76 %

Table 12: Ten-year risks of AD dementia if Aducanumab has an RR of 0.9 with no delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.19 %	1.18 %	3.57 %	6.71 %	91.76 %	57.22 %
65	0.45~%	2.33~%	4.24~%	10.16~%	89.89 %	55.35~%
70	1.01~%	4.35~%	5.36~%	14.7~%	86.64~%	52.24~%
75	2.06~%	7.32~%	7.01~%	19.7~%	81.54~%	47.4~%
80	3.44~%	10.32~%	8.84~%	23.08~%	73.18 %	39.97 %
85	4.35~%	10.7~%	9.07~%	21.69 %	60.73 %	30 %
90	3.54~%	7.55~%	6.57~%	15.57~%	43.75 %	19.09 %
95	1.89~%	3.91~%	3.51~%	9.09~%	27.57~%	10.76~%

Table 13: Ten-year risks of AD dementia if Aducanumab has an RR of 0.75 with 2-year delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.18 %	1.04 %	3.51 %	6.09 %	89.87 %	57.22 %
65	0.41~%	2.06~%	4.11~%	9.22~%	88.09 %	55.35~%
70	0.92~%	3.84~%	5.09~%	13.34~%	84.99 %	52.24~%
75	1.84~%	6.47~%	6.5~%	17.86~%	80.15 %	47.4~%
80	3.04~%	9.11~%	8.01~%	20.9~%	72.25 %	39.97~%
85	3.81~%	9.39~%	8.08~%	19.6~%	60.58 %	30~%
90	3.08~%	6.55~%	5.76~%	14.11~%	44.62~%	19.09~%
95	1.62~%	3.34~%	3.02~%	8.45~%	29.04~%	10.76~%

Table 14: Ten-year risks of AD dementia if Aducanumab has an RR of 0.75 with no delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.18 %	1.04 %	3.51 %	6.08 %	87.93 %	57.22 %
65	0.41~%	2.06~%	4.11~%	9.2~%	85.9 %	55.35~%
70	0.92~%	3.84~%	5.09~%	13.3~%	82.41 %	52.24~%
75	1.84~%	6.47~%	6.5~%	17.79~%	76.95~%	47.4~%
80	3.04~%	9.11~%	8.01~%	20.76~%	68.14~%	39.97~%
85	3.81~%	9.39~%	8.08~%	19.31~%	55.36~%	30~%
90	3.08~%	6.55~%	5.76~%	13.63~%	38.83~%	19.09~%
95	1.62~%	3.34~%	3.02~%	7.81~%	23.87 %	10.76~%

### Lifetime risks: males

Below are tables for male lifetime risks of AD dementia for ages  $\in (60, 65, \dots, 95)$  for each potential RR in descending order (1, 0.95, 0.90, 0.75).

Table 15: Lifetime risks of AD dementia if Aducanumab has no treatment effect

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	13.87 %	23.1 %	23.1 %	33.62 %	92.93 %	71.73 %
65	12.89 %	21.85~%	20.83~%	32.88~%	90.37~%	64.87~%
70	11.33~%	19.89~%	18.18~%	31.27~%	85.99~%	56.29~%
75	9.25~%	17.19~%	15.16~%	28.6~%	79.54~%	46.59~%
80	6.75~%	13.63~%	11.72~%	24.46~%	69.91 %	35.95~%
85	4.38~%	9.5~%	8.12~%	18.88~%	56.66 %	25.31~%
90	2.38~%	5.43~%	4.7~%	12.38~%	40.15 %	15.59 %
95	1.03~%	2.43~%	2.16~%	6.56~%	23.87 %	8.23~%

Table 16: Lifetime risks of AD dementia if Aducanumab has an RR of 0.95 with 2-year delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	13.58 %	22.66 %	22.8 %	33.11 %	92.71 %	71.73 %
65	12.6~%	21.4~%	20.52~%	32.34~%	90.06~%	64.87~%
70	11.05~%	19.44~%	17.86~%	30.69~%	85.58 %	56.29~%
75	9~%	16.74~%	14.84~%	27.99~%	79.03 %	46.59~%
80	6.54~%	13.23~%	11.42~%	23.85~%	69.35 %	35.95~%
85	4.23~%	9.17~%	7.86~%	18.35~%	56.17 %	25.31 %
90	2.29~%	5.22~%	4.52~%	12.01~%	39.86~%	15.59 %
95	0.99~%	2.32~%	2.07~%	6.38~%	23.78 %	8.23~%

Table 17: Lifetime risks of AD dementia if Aducanumab has an RR of 0.95 with no delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	13.58 %	22.66 %	22.8 %	33.11 %	92.5 %	71.73 %
65	12.6~%	21.4~%	20.52~%	32.34~%	89.78~%	64.87~%
70	11.05~%	19.44~%	17.86~%	30.68~%	85.18 %	56.29~%
75	9~%	16.74~%	14.84~%	27.98~%	78.47~%	46.59~%
80	6.54~%	13.23~%	11.42~%	23.83~%	68.58 %	35.95~%
85	4.23~%	9.17~%	7.86~%	18.29~%	55.19 %	25.31~%
90	2.29~%	5.22~%	4.52~%	11.92~%	38.8~%	15.59~%
95	0.99~%	2.32~%	2.07~%	6.28~%	22.9 %	8.23~%

Table 18: Lifetime risks of AD dementia if Aducanumab has an RR of 0.9 with 2-year delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	13.26 %	22.18 %	22.49~%	32.57~%	92.45 %	71.73 %
65	12.29~%	20.91~%	20.19~%	31.76~%	89.71 %	64.87~%
70	10.76~%	18.96~%	17.52~%	30.07~%	85.13 %	56.29~%
75	8.74~%	16.28~%	14.5~%	27.34~%	78.48~%	46.59~%
80	6.33~%	12.81~%	11.11~%	23.21~%	68.76 %	35.95~%
85	4.07~%	8.84~%	7.6~%	17.79~%	55.66 %	25.31~%
90	2.19~%	5%	4.35~%	11.63~%	39.55 %	15.59 %
95	0.94~%	2.21~%	1.98~%	6.2~%	23.68~%	8.23~%

Table 19: Lifetime risks of AD dementia if Aducanumab has an RR of 0.9 with no delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	13.26 %	22.18 %	22.49~%	32.56 %	92.02 %	71.73 %
65	12.29~%	20.91~%	20.19~%	31.75~%	89.12~%	64.87~%
70	10.76~%	18.96~%	17.52~%	30.06~%	84.29 %	56.29~%
75	8.74~%	16.28~%	14.5~%	27.31~%	77.3 %	46.59~%
80	6.33~%	12.81~%	11.11~%	23.16~%	67.15 %	35.95~%
85	4.07~%	8.84~%	7.6~%	17.68~%	53.64~%	25.31~%
90	2.19~%	5%	4.35~%	11.45~%	37.4~%	15.59 %
95	0.94~%	2.21~%	1.98~%	5.99 %	21.9 %	8.23 %

Table 20: Lifetime risks of AD dementia if Aducanumab has an RR of 0.75 with 2-year delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	12.19 %	20.54 %	21.41 %	30.62 %	91.44 %	71.73 %
65	11.25~%	19.26~%	19.07~%	29.7~%	88.38 %	64.87~%
70	9.78~%	17.32~%	16.38~%	27.91~%	83.44 %	56.29~%
75	7.87~%	14.71~%	13.38~%	25.11~%	76.48 %	46.59~%
80	5.64~%	11.42~%	10.08~%	21.06~%	66.7 %	35.95~%
85	3.57~%	7.75~%	6.77~%	15.96~%	53.95 %	25.31~%
90	1.9~%	4.31~%	3.79 %	10.41~%	38.58~%	15.59~%
95	0.8~%	1.88~%	1.7~%	5.65~%	23.38 %	8.23~%

Table 21: Lifetime risks of AD dementia if Aducanumab has an RR of 0.75 with no delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	12.19 %	20.54 %	21.41 %	30.61 %	90.1 %	71.73 %
65	11.25~%	19.26~%	19.07~%	29.69~%	86.56 %	64.87~%
70	9.78~%	17.32~%	16.38~%	27.87~%	80.9~%	56.29~%
75	7.87~%	14.71~%	13.38~%	25.04~%	73.01 %	46.59~%
80	5.64~%	11.42~%	10.08~%	20.91~%	62.11 %	35.95~%
85	3.57~%	7.75~%	6.77~%	15.67~%	48.4~%	25.31~%
90	1.9~%	4.31~%	3.79 %	9.94~%	32.86~%	15.59~%
95	0.8~%	1.88~%	1.7~%	5.11~%	18.79 %	8.23 %

## Ten-year risks: males

Below are tables of male ten-year risks of AD dementia for each RR in descending order.

Table 22: Ten-year risks of AD dementia if Aducanumab has an RR of  $1\,$ 

$\overline{\text{Age}}$	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.19 %	1.19 %	3.42 %	6.74 %	91.07 %	54.86 %
65	0.44~%	2.32~%	4.03~%	10.06~%	88.84 %	52.55~%
70	0.96~%	4.2~%	5.01~%	14.21~%	84.91 %	48.67~%
75	1.87~%	6.75~%	6.35~%	18.37~%	78.95~%	42.99~%
80	2.87~%	8.85~%	7.5~%	20.4~%	69.72~%	34.92~%
85	3.26~%	8.42~%	7.08~%	18.13~%	56.64~%	25.19~%
90	2.28~%	5.37~%	4.62~%	12.35~%	40.15 %	15.59 %
95	1.03~%	2.43~%	2.16~%	6.56~%	23.87~%	8.23~%

Table 23: Ten-year risks of AD dementia if Aducanumab has an RR of 0.95 with 2-year delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.18 %	1.16 %	3.4~%	6.57~%	90.51 %	54.86 %
65	0.43~%	2.25~%	4%	9.81~%	88.27~%	52.55~%
70	0.94~%	4.07~%	4.94~%	13.85~%	84.33 %	48.67~%
75	1.81~%	6.53~%	6.21~%	17.89~%	78.36~%	42.99~%
80	2.78~%	8.56~%	7.3~%	19.85~%	69.13 %	34.92~%
85	3.14~%	8.12~%	6.86~%	17.61~%	56.14~%	25.19~%
90	2.19~%	5.15~%	4.45~%	11.97~%	39.86~%	15.59 %
95	0.99~%	2.32~%	2.07~%	6.38~%	23.78 %	8.23~%

Table 24: Ten-year risks of AD dementia if Aducanumab has an RR of 0.95 with no delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.18 %	1.16 %	3.4 %	6.57 %	90.21 %	54.86 %
65	0.43~%	2.25~%	4~%	9.81~%	87.92 %	52.55~%
70	0.94~%	4.07~%	4.94~%	13.84~%	83.88 %	48.67~%
75	1.81~%	6.53~%	6.21~%	17.88~%	77.77 %	42.99~%
80	2.78~%	8.56~%	7.3~%	19.83~%	68.35~%	34.92~%
85	3.14~%	8.12~%	6.86~%	17.56~%	55.16 %	25.19~%
90	2.19~%	5.15~%	4.45~%	11.89~%	38.8~%	15.59 %
95	0.99~%	2.32~%	2.07~%	6.28~%	22.9~%	8.23~%

Table 25: Ten-year risks of AD dementia if Aducanumab has an RR of 0.9 with 2-year delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.18 %	1.11 %	3.38 %	6.39 %	89.89 %	54.86 %
65	0.42~%	2.17~%	3.96~%	9.55~%	87.64~%	52.55~%
70	0.91~%	3.92~%	4.86~%	13.47~%	83.68 %	48.67~%
75	1.75~%	6.3~%	6.07~%	17.4~%	77.7~%	42.99~%
80	2.68~%	8.25~%	7.09~%	19.28~%	68.51 %	34.92~%
85	3.02~%	7.81~%	6.63~%	17.06~%	55.62~%	25.19~%
90	2.1~%	4.94~%	4.28~%	11.59~%	39.55 %	15.59 %
95	0.94~%	2.21~%	1.98~%	6.2~%	23.68~%	8.23~%

Table 26: Ten-year risks of AD dementia if Aducanumab has an RR of 0.9 with no delay

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.18 %	1.11 %	3.38~%	6.39~%	89.23 %	54.86 %
65	0.42~%	2.17~%	3.96~%	9.54~%	86.86~%	52.55~%
70	0.91~%	3.92~%	4.86~%	13.46~%	82.72 %	48.67~%
75	1.75~%	6.3~%	6.07~%	17.37~%	76.46~%	42.99~%
80	2.68~%	8.25~%	7.09 %	19.22~%	66.88~%	34.92~%
85	3.02~%	7.81~%	6.63~%	16.96~%	53.61 %	25.19~%
90	2.1~%	4.94~%	4.28~%	11.41~%	37.4~%	15.59 %
95	0.94~%	2.21~%	1.98~%	5.99~%	21.9 %	8.23~%

Table 27: Ten-year risks of AD dementia if Aducanumab has an RR of  $0.75\,$ 

Age	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.17~%	0.98 %	3.33 %	5.79 %	87.47 %	54.86 %
65	0.38~%	1.92~%	3.84~%	8.65~%	85.21 %	52.55~%
70	0.82~%	3.46~%	4.61~%	12.19~%	81.28~%	48.67~%
75	1.57~%	5.56~%	5.62~%	15.72~%	75.36 %	42.99~%
80	2.37~%	7.26~%	6.42~%	17.36~%	66.34~%	34.92~%
85	2.64~%	6.82~%	5.89~%	15.29~%	53.9 %	25.19~%
90	1.82~%	4.25~%	3.73 %	10.38~%	38.58 %	15.59 %
95	0.8~%	1.88~%	1.7~%	5.65~%	23.38 %	8.23~%

Table 28: Ten-year risks of AD dementia if Aducanumab has an RR of 0.75 with no delay

$\overline{\text{Age}}$	Normal[1]	A[2]	N[3]	A+N[4]	A+N+MCI[5]	N+MCI[6]
60	0.17 %	0.98 %	3.33 %	5.78 %	85.23 %	54.86 %
65	0.38~%	1.92~%	3.84~%	8.63~%	82.68 %	52.55~%
70	0.82~%	3.46~%	4.61~%	12.15~%	78.25~%	48.67~%
75	1.57~%	5.56~%	5.62~%	15.64~%	71.63 %	42.99~%
80	2.37~%	7.26~%	6.42~%	17.2~%	61.67~%	34.92~%
85	2.64~%	6.82~%	5.89~%	14.99~%	48.34~%	25.19 %
90	1.82~%	4.25~%	3.73~%	9.91~%	32.86 %	15.59 %
95	0.8~%	1.88~%	1.7~%	5.11~%	18.79~%	8.23~%

The effect of Aducanumab on lifetime and ten-year risks of AD dementia seems to be pretty small even under the most liberal assumption of RR = 0.75.