## Doshi public comments at FDA VRBPAC meeting, June 10, 2020 5 minutes.

- 1 Hello, I'm Peter Doshi, thanks for the opportunity to speak. [If you could please advance to my
- 2 title slide showing my financial disclosures] For identification purposes, I am on the faculty at
- 3 the University of Maryland and an editor at The BMJ. I have no relevant conflicts of interest.
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[next slide please, labeled "Slide A" at the top-right] So the question is: what is the evidence
in children thus far? Let's take Pfizer's trial of 12-15 year olds which supported the recent EUA.
In this trial, harms outweighed the benefits. The placebo group was better off than the vaccine
group. I know that's a blunt way to put it, but the reason is because efficacy benefits were rare
whereas side-effects were common. I'll explain that.

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- 11 In terms of benefits, the reported 100% efficacy was based on 16 covid cases in the placebo
- 12 group versus none in the fully vaccinated group. But there were around 1000 placebo
- recipients, so just 2% got covid. Put another way, 2% of the fully vaccinated avoided covid,
- 14 whereas 98% of the vaccinated wouldn't have gotten covid anyways. But on the other side of
- 15 the ledger, <u>side-effects were common</u> it's on my slide 3 in 4 kids had fatigue and headaches,
- around half had chills and muscle pain, around 1 in 4 to 5 had a fever and joint pain; the list
- 17 goes on. 18
- 19 In sum, all fully vaccinated 12-15 year olds avoided symptomatic covid, but most wouldn't have
- gotten covid even without the vaccine—so the benefit is small. But it came at the price of very
  common side-effects that were mild to moderate in severity, and lasted for a few days.
- 22
- And then are long-term effects about which we still know nothing. I'll come back to this point.

[next slide, slide B please] Why do so few vaccinated children enjoy any efficacy benefit? As I said, one reason is that few kids got covid, at least during Pfizer's trial. Also, many infections are asymptomatic. But another reason is that many children are post-covid at this point. The CDC estimates some 25 million US children were infected by March 2021. That translates into 23% of kids 0-4 years old and 42% of children 5 to 17 years as being post-covid. And I say 'post-covid' because the evidence to date suggests that the immune response following natural

- 31 infection is robust and long lasting. I think this is why so few vaccinated kids reap any benefit.
- 32

32 [next slide, slide C please] Now let's talk about long-term harms. There's a view out there that

34 serious side effects always occur within 6 weeks of dosing. Well, it's just not so simple. The fact

is that historically, side effects were **not** always discovered so quickly. For Pandemrix, an

36 influenza vaccine, cases of narcolepsy in adolescents were first reported <u>around 9 months after</u>

- 37 <u>vaccines were given</u>. And now, with covid vaccines, it wasn't until this month, <u>4 or 5 months</u>
- 38 <u>into the vaccination campaign in Israel</u>, that myocarditis was recognized as a harm in young
- 39 men. So it's not simply a matter of how long after dosing did these adverse events occur. The 40 crucial question is when were these adverse events **noticed**, **researched**, **and established as**
- 40 **linked to** the vaccine. The pharmacovigilance timeline matters. Unless you recognize harms
- 42 soon after they occur, you can't use that knowledge to prevent harm in the next person about
- 43 to get the vaccine.
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- 45 And on long-term harms, we know nothing. All we can do is theorize, say by considering the
- 46 mechanism of action, vaccine biodistribution, and other essential studies that we outlined in
- 47 our <u>June 1 Citizen Petition</u>.
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- 49 [next slide, slide D please] Next I want to address this idea of vaccinating children to protect
- adults. I encourage the advisory committee to read <u>Dr. Lavine et al.'s editorial</u> who explain why
- 51 "vaccinating children is likely to be of marginal benefit in reducing the risk to others." And even
- 52 if you think a small benefit is better than nothing, let's not forget that it's an unproven
- 53 hypothetical benefit. We need confirmatory evidence, not just assumptions.
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- 55 And then there's the ethics and the law. FDA can only indicate a product for use in a given 56 population if benefits outweigh risks in **that same population**. So if benefits don't outweigh
- 57 risks in children themselves, it can't be indicated for children, full stop. Whether vaccinating
- 58 children might help adults is a moot point.
- 59
- 60 [final slide, slide E please] In summary, we must avoid a fiasco. EUA criteria are not met
- 61 because there's no emergency for children; thus far, risks outweigh benefits and we know
- 62 nothing about long term safety other than history's lesson to be very cautious.
- 63
- 64 Does this mean we should prevent parents desiring to vaccinate their children? No. Access
- 65 does not require an EUA or BLA. Rather, an <u>expanded access program</u> can thread the needle,
- 66 providing access to vaccines while being honest about the evidence, that it has not been
- 67 demonstrated that benefits outweigh risks. FDA approval must represent a high bar of robust
- 68 evidence, otherwise the whole point of regulation is lost.
- 69
- 70 Thank you for listening.