

1 insert is directed at physicians or consumers, because
2 I don't think it can satisfy both needs.

3 My own bias would be that this is for the
4 prescriber, and it is the prescriber's role to sit in
5 consultation with the patient and translate the
6 information as necessary, which means the prescriber
7 has to be able to understand the information.

8 I'm a little wary also, as someone else
9 has mentioned, about the management section. It seems
10 to me the guidance for management ought to flow from
11 the risk assessment information, because that is the
12 information that the prescriber and patient need to
13 take into account, but it may not result in the same
14 management decision.

15 The example of Leural is kind of
16 interesting, because in the pregnancy statement
17 clinical management says in the second sentence,
18 "women who are considering pregnancy should be advised
19 to consider alternative treatments for asthma
20 maintenance when feasible."

21 Well, you know, that can be interpreted
22 any of a number of ways, but one concern from a

1 liability standpoint would be that physicians would
2 shy away from the drug, and yet for a given patient,
3 that may be the appropriate drug, all risks
4 notwithstanding.

5 So I'm a little wary of the FDA sitting in
6 judgment of a clinical decision which presumably is
7 being made rationally. I mean, you just have to, I
8 think, assume that at some level.

9 So I think that, if the risk information
10 is given in a meaningful way, it would be possible to
11 avoid the management recommendation which, as I said,
12 ought to flow.

13 On a separate level, somewhat separate
14 level, and others have stated it, but I would just
15 want to reinforce it, I think it's really important
16 that the document acknowledge ignorance right up front
17 and, you know, take all the heat that the
18 practitioners are going to throw at it.

19 Certainly, the FDA will be called cowardly
20 for saying we don't know, but the truth is the truth.
21 I think that it also ought to acknowledge where
22 there's controversy.

1 I'm not sure I disagree with you, Mike,
2 when you were talking about the AHCPR standards, but
3 I certainly haven't seen any assessment of conflicting
4 epidemiologic data in humans that has used a set of
5 standards which large numbers of experts in the field
6 will agree on.

7 You know, I mean, we're certainly involved
8 in that kind of area of inquiry, and others have had
9 experience in it. I think that the practitioner needs
10 to know that there may be controversies surrounding
11 the interpretation of human data, and the agency ought
12 to be encouraged to be up front about that.

13 Finally, two other points. One is the
14 animal data. I'm further away from the table than Ken
15 Jones, but I would tend to agree with him, and
16 certainly, if you look at the history of human
17 teratogenesis, the animal data aren't terribly
18 predictive.

19 They may be predictive for other outcomes
20 than teratogenesis, but when it comes to birth
21 defects, there are very, very few animal studies which
22 people would consider to be predictive.

1 I think to overstate the animal data
2 simply because they're available would provide a
3 disservice, either because they provide assurance or
4 they provide evidence of risk, unless there's some
5 good reason to believe that that information
6 translates to the human condition. I'd be kind of
7 wary of it.

8 Finally, I wonder whether it would be
9 appropriate for the agency to consider -- I hate to
10 use the word boilerplate, but I think physicians may
11 not consistently look at the package insert.
12 Enlightened consumers may not either.

13 It might be useful to consider sort of a
14 baseline introductory few sentences that provides
15 information on baseline rates of birth defects, for
16 example, that provides a statement about the need to
17 balance risks and benefit in a given patient.

18 I actually like the idea of suggesting the
19 need for expert advice where the practitioner feels
20 that's necessary. That kind of statement with every
21 insert might actually prove to be quite helpful. I'll
22 stop there.

1 CHAIRMAN GREENE: No, you're absolutely .
2 correct that the AHCPR hierarchy, if you will, of
3 quality of data doesn't pertain to judging
4 epidemiologic studies. It pertains to recommendations
5 for patient management.

6 DR. MITCHELL: Yes, and certainly having
7 seen different meta analyses of the same subject or
8 even systematic reviews, which I would prefer,
9 different observers come to different conclusions, and
10 all of them can argue that they're correct.

11 CHAIRMAN GREENE: Absolutely. Reasonable
12 persons may differ.

13 MS. CONOVER: I just wanted to address
14 briefly the issue of boilerplate, because I think that
15 some of that will be needed.

16 At our teratogen project we've tried
17 doing what we call the disclaimer in two ways, and
18 almost all teratogen projects use some kind of
19 disclaimer, including reminding people of their three
20 percent background risk and also that there's never
21 complete data and that data changes, and they need to
22 re-consult us for additional data periodically.

1 We've done it both in a paragraph that
2 kind of comes after the introduction, you know,
3 stating the background of the particular problem we've
4 been consulted on, and we've tried inserting it within
5 a paragraph.

6 I have to say that, although it's easier
7 to put it in the second paragraph, to kind of lump it
8 altogether, I'm not sure how often it gets read or
9 understood in that format. In fact, we've had more
10 success when we'll say something like Deprocote has a
11 two to six percent risk for neural tube defects; this
12 can be compared to the background population risk of,
13 you know, .6 percent or whatever you choose to use.

14 I think that when it's embedded in that
15 way, compared directly, it's harder to do, but I think
16 it's read and understood more effectively.

17 CHAIRMAN GREENE: I think what I'd like to
18 do is -- and that's a good segue. The discussion to
19 this point has really addressed, I think, reasonably
20 well the first three questions.

21 What I'd like to do now is to focus
22 attention on question 4, which is with respect to

1 whether information should be quantitative and numeric
2 in some way or qualitative using descriptors for risk.

3 In the question it specifically chooses
4 the example of risk ratios, and I would plea
5 specifically that risk ratios not be used, because two
6 or three or ten times a risk ratio, if it's a very
7 small number to begin with, is still a very small
8 number.

9 For example, an increased risk for neural
10 tube defects with Valproic acid of 10, if you start
11 with a background rate of one in 1,000 and you raise
12 that to one in 100, one in 100 to most patients sounds
13 like a relatively small risk; whereas, if you tell
14 them you have a tenfold increase in risk, that sounds
15 very daunting.

16 So I think that, if we're going to use
17 numbers, that they be absolute risks and not relative
18 risks. Then whether we also need some sort of a
19 qualitative description of risk, I'll throw open to
20 the committee for discussion.

21 Patrick?

22 DR. WIER: I'd like to start with the

1 situation where you have a new chemical entity and
2 there is no clinical data. I'd like to start with the
3 situation where you only have animal data, and try to
4 explain what I think state of the art is in terms of
5 making a prediction of risk.

6 I think this is relevant, because when we
7 saw the presentation earlier, what the summary
8 statement distilled down to was no concern or
9 significant level of concern. I made the comment,
10 well, we're always concerned; what can we say?

11 Here's the way that I would sum it up, is
12 that when you look at animal studies and we do current
13 state of the art evaluation with regard to biological
14 plausibility and exposure level in animals relative to
15 the clinic, we can make statements that include there
16 is no a predicted hazard under the clinical exposure
17 condition. That's a definitive statement that can be
18 supported scientifically.

19 There are things at the other extreme
20 where we know, based on biological plausibility such
21 as the role of the therapeutic target in development,
22 the exposure levels being low, being consistent with

1 the pharmacologically active exposures, where we see
2 abnormalities in development, that we can make the
3 other clear statement that it predicts. The animal
4 studies predict with high probability a hazard
5 relevant to the clinical exposure condition.

6 Now where the state of the science has not
7 yet evolved is in that middle ground. I think what
8 can be used in a summary statement at a sort of semi-
9 quantitative level is to say that the hazard from the
10 animal studies is a potential risk or a possible risk
11 or is considered potentially relevant.

12 I think that's the state of the art today
13 with the animal studies.

14 CHAIRMAN GREENE: Yes, please?

15 DR. O'LOUGHLIN: As far as the qualitative
16 wording, at least from a patient point of view -- I
17 mean high, medium and low can be very anxious to
18 individuals, because people have different
19 definitions. I mean, you know, I may think high is
20 not that bad, because I've looked at an integration
21 tool, and I understand that it's weighted, and I
22 understand, you know, that there's thresholds and

1 whatever.

2 So when it comes out high, I look at it,
3 and I say, well, that might not be so bad. But
4 somebody who might not understand how that data was
5 derived to get a high level may be extremely anxious
6 and not even want to discuss a drug.

7 So I think it's up to the labeler at that
8 point on the high, medium and low. That's a real
9 difficult thing for patients to understand.

10 CHAIRMAN GREENE: This is a mathematician
11 talking here.

12 DR. O'LOUGHLIN: Yes.

13 CHAIRMAN GREENE: Yes, Jim?

14 DR. LEMONS: When it's known -- You know,
15 Francois had posed the European, I think, definition
16 where they use the scarce, uncommon, common, etcetera,
17 and equated that to a definitive number, which I
18 thought was helpful; because I know it's been
19 suggested by some of the lay groups that some type of
20 qualitative and quantitative might be useful, but they
21 probably should be identified in a boilerplate. It
22 may be one other thing that could be put into the

1 boilerplate that Allen was suggesting, when that's
2 known.

3 MS. CONOVER: This is one of those areas
4 I was alluding to in genetic counseling where they
5 look at counseling men versus women. There's at least
6 beginning to be, and certainly a lot of discussion in
7 genetic counselors, that our male clients respond
8 better to numbers like percentages or we'll use ratios
9 one and 20 or whatever. We'll present it different
10 ways, and that women often see things more absolute,
11 not very likely, very likely -- you know, those kinds
12 of areas where you're using phrases instead.

13 Again, of course, you have to define what
14 those phrases mean, and that's the hard part, but it
15 might be something to take into account.

16 CHAIRMAN GREENE: Other comments? I'd
17 like to then direct your attention to question number
18 5, which is with respect to the goals for the
19 Discussion of the Data subsection, and how should
20 information be selected for inclusion in that
21 subsection.

22 Ken, should they not even mention animal

1 studies in that section?

2 DR. KWEDER: Can we go back for one
3 second, Mike?

4 CHAIRMAN GREENE: Yes.

5 DR. KWEDER: One of the things that you
6 haven't touched on with regard to the quantitative
7 descriptions of risk that was touched on earlier this
8 morning was the issue of competence intervals.

9 Some people have suggested that -- this is
10 particularly the case when we have human data, not
11 animal data, that we describe things in terms of,
12 well, we know that the risk may be somewhere between
13 here and here. Even though it's a broad spread, this
14 is the level of certainty that we have.

15 It's probably higher than one in 1,000,
16 but not as much as one in 100, something like that.
17 Is that kind of quantitative description -- does that
18 have a role here? We've done it in labels in regard
19 to other safety data. I'm trying to put some context
20 to the numbers and what magnitude of risk that's being
21 discussed, and so I'd just like to hear any comments
22 that you have on that.

1 CHAIRMAN GREENE: My immediate response is
2 that something like that is essential, because it
3 conveys to the reader the quantity of data available
4 to address the issue. Obviously, the less data
5 available, the wider your confidence intervals, the
6 less stable your point estimate of risk.

7 So I think something like that, as I said
8 when handling zero numerators, this pertains
9 elsewhere, too.

10 DR. MITCHELL: Could I interject?

11 CHAIRMAN GREENE: Yes, Allen?

12 DR. MITCHELL: I think that there's a
13 serious difference between safety data that comes out
14 of either preclinical or post marketing randomized
15 trials and epidemiologic data that are likely to bear
16 on the question of birth defects.

17 That has to do with the validity of the
18 study. I know I'm repeating a theme here, but I
19 really think it needs to have some focus.

20 It's very easy and sort of reassuring to
21 say, well, let's look at all the studies that have
22 been done in humans and describe the risk magnitudes

1 that those studies have identified, but in fact, if
2 there's one good study and six bad studies, I think
3 most people would argue, under the assumption they
4 could agree on what's good and what's bad, that it's
5 only worth presenting the data from the good study.

6 It seems to me that the preliminary
7 activity and the more difficult activity that falls on
8 whoever is preparing these documents is to make some
9 judgment about which studies are worth including in
10 that assessment of magnitude of risk.

11 CHAIRMAN GREENE: I think this does
12 address the next question, which we had just asked,
13 which was what data should go into the subsection.

14 DR. JONES: Mike, could we just continue
15 on this particular issue for just a minute?

16 CHAIRMAN GREENE: Yes, please.

17 DR. JONES: I'd just like to respond, I
18 think, to what you were saying, Sandi. Were you
19 creating a hypothetical situation in which you said
20 one in 1,000 -- less than one in 1,000 versus greater
21 than one in 1,000 or were you basing that on numbers?

22 DR. KWEDER: Those are just hypotheticals.

1 I think that sometimes -- What some clinicians have
2 said to me when we've talked about labels, they'll
3 say, you know what, here's what I want to know; I want
4 to know if this is thalidomide, and tell me if -- is
5 that the kind of risk we're talking about here when
6 you say that there's risk? Is that what you mean or
7 do you mean Valproic acid and neural tube defects?

8 So I'm trying to get at the challenge of
9 helping people understand what magnitude of risk is
10 being dealt with, and what kinds of ways can we choose
11 to describe that?

12 DR. JONES: Well, I -- Obviously, I agree.
13 I think that's incredibly important. Unfortunately,
14 I'm not sure to assign a number, one in 1,000 -- I
15 mean, that's pretty artificial. I mean, you really
16 are making something up.

17 What we do in TERIS in a situation like
18 this, we have a boilerplate statement that we make
19 which could be something like "a very small risk
20 cannot be excluded, but a high risk of general
21 anomalies in children of women treated with Blank drug
22 during pregnancy is unlikely."

1 I mean, I think to say greater than 1,000
2 versus less than 1,000 is really -- I mean --

3 DR. KWEDER: Okay. That's helpful.
4 Thanks.

5 DR. ANDREWS: This is an issue we've
6 struggled with for many years in the various pregnancy
7 registries that we have developed, and we've struggled
8 with trying to communicate accurately what we've seen.

9 Indeed, we follow that model precisely,
10 summarizing our data with the point estimate and
11 confidence intervals, compared to the background rate.
12 There, I would say one has to be extremely careful
13 what you're comparing it to.

14 So you couldn't just take that in the
15 abstract and say, well, we found a risk of 3.2
16 percent. That needs to be compared with data from the
17 general population or the appropriate comparison
18 population using the same kind of detection method.
19 Otherwise, one could easily draw the wrong conclusion.

20 CHAIRMAN GREENE: Yes, please?

21 DR. CHONG: I was going to address the
22 issue of quantitative versus qualitative data being

1 presented in the labeling.

2 I believe from my lessons from my eight-
3 year-old son when I went to visit the school he was
4 going to, they said people learn things or hear things
5 in different fashions. I think this repeats something
6 that someone said. Whether or not there's a gender
7 bias -- I'm not going to get into that, but people do
8 hear things and see things differently.

9 Their lesson was that in a good school, a
10 good teacher will present the same material in a way
11 that may be six different ways of learning data can be
12 touched on at least once during that day.

13 Maybe we don't have room for this in the
14 label, but the lesson is probably the same, that we
15 need to present information in formats for different
16 people.

17 The other thing I would say is like I've
18 just gone through a month of teaching evidence based
19 medicine. What I found during that time is who the
20 average clinician is or the average consumer is, that
21 they don't necessarily understand numbers, things like
22 relative risk and absolute risk, as well as people who

1 are in the academic field who are doing research or
2 doing publications, and that there is a role for us to
3 try to address them in labeling.

4 DR. ROSENE-MONTELLA: I just wanted to add
5 one more concern that we've maybe not touched upon
6 again this afternoon. That is that whether we have an
7 extensive clinical recommendation portion or not, that
8 we have to continuously be vigilant about the risk of
9 not treating maternal illness.

10 We counsel so many -- I see patients every
11 day with asthma exacerbations, with uncontrolled
12 hyperthyroidism, with uncontrolled horrible
13 hypertension -- it goes on and on and on -- from
14 withdrawal of meds because of concern about the safety
15 of meds.

16 So I would like to see us be able to
17 address that risk as well, and that's a good part of
18 a risk/benefit analysis of taking a drug. I don't
19 know if that belongs in the summary risk section or in
20 the clinical management section, but I really don't
21 want us to forget it.

22 DR. DATTEL: Just a comment about that.

1 I agree with you, and I think it almost seems to me,
2 in looking at all the information that's been
3 presented, that we almost need a statement at the very
4 beginning: Pregnancy risk unknown, or pregnancy risk
5 -- so that the person who reads that first sentence
6 then goes down to read exactly what we're talking
7 about here.

8 It seems like the vast majority of
9 clinician's, as has been alluded to, want something up
10 front to tell them whether they need to read any
11 further. You know, Tylenol, ampicillin, maybe they
12 don't need to read any further, but if some of these
13 other drugs they are less familiar with, like Dr.
14 Briggs alluded to, that they don't have any
15 information about, they need to know that this is
16 clearly a risky drug. They need to read about it.
17 This is something that nobody knows anything about,
18 they need to read about that.

19 Then they get into this area where you
20 talk about following drug levels of tricyclics,
21 because it's been shown in pregnancy they do this, or
22 the risk of not treating thyroid disease and then

1 having thyroid storm -- you know, that type of an
2 issue.

3 It seems like something has to be stated
4 up front to make someone go down to -- this gets into
5 writing for the general non-academicians to make them
6 go down to the next level.

7 MS. CONOVER: Let me just say in terms of
8 the risk of the condition, this is another one of our
9 little boilerplate areas where, like if you have
10 asthma, you talk about the asthma drugs and then you
11 say, of course, it needs to be considered that asthma
12 presents risks to both the mother and -- you know,
13 uncontrolled asthma presents risks to both the mother
14 and the fetus.

15 I mean, it doesn't even have to be
16 incredibly detailed. It's just reminding them that it
17 has to go into the equation.

18 DR. ROSENE-MONTELLA: Our boilerplate
19 statement about that is a quote from one of our
20 colleagues which was just always that fetal wellbeing
21 depends on maternal wellbeing.

22 DR. KWEDER: I'm wondering if I could ask

1 a question. One of the things that I'm hearing is
2 that -- at least some general consensus, that a
3 statement about the risk is probably really the key
4 here, and there's some level of discomfort about
5 active -- getting active clinical management advice,
6 and that perhaps what we ought to be thinking is more
7 in terms of clinical considerations that might address
8 some of these contextual issues like risk of no
9 treatment, those kinds of things. Is that what I'm
10 hearing?

11 MS. CONOVER: Well, for one thing,
12 considerations is a nicer phrase than management, and
13 it reflects that more in terms of what we're talking
14 about.

15 DR. LEMONS: That is really important.
16 Again, I can think of many cases where I think it
17 would be very, very difficult to include all that's
18 necessary. One is assuming that it's being used, for
19 example, for the approved indication rather than off-
20 label use, which is -- So how do you encompass the --
21 I think it would be impossible to state that.

22 To me, that's part of what has to occur

1 between the physician and the patient. Given that we
2 can again identify risks based upon adequate data or
3 just up front, as Allen had said, make sure that we
4 confess when we don't have sufficient data or if risks
5 are unknown.

6 DR. ANDREWS: To reiterate a point that's
7 been made a couple of times, I think clinical
8 considerations is the right term, and I think it
9 should follow from the summary of risk, and it should
10 derive from the data.

11 DR. DeGEORGE: I'd just like
12 clarification. So what you're really -- What we are
13 saying is that we should have this summary risk
14 statement, some form thereof, first. That would
15 follow by a clinical considerations statement so that
16 the clinicians would have to have read both those
17 parts rather than just read the clinical
18 considerations statement.

19 Then that might be followed by some level
20 of data. We're really talking about a reorganization
21 and maybe a somewhat backing off in terms of the
22 directiveness in terms of clinical management as

1 opposed to clinical considerations.

2 CHAIRMAN GREENE: I see a lot of nodding
3 of heads. So I think you've --

4 Why don't we move on then to the last
5 three questions regarding -- Pat, yes?

6 DR. WIER: I just had another comment on
7 question 5, and it's to -- Maybe this is my one chance
8 to try to remove some of the enigma of animal
9 teratology data, and maybe even overcome some
10 antiquated prejudices about animal data, but I don't
11 know if I can go that far.

12 Anyway, this comment is relevant in the
13 context of the suggested subheadings for the
14 discussion of the data. Certainly, these endpoints of
15 the studies are important to consider and focus on
16 when you're at the level of interpreting the
17 individual experiments. But if you ask me how I might
18 summarize animal information at this level of risk
19 communication, I wouldn't take that level of detail.

20 In fact, I would even suggest that this is
21 part of the problem that clinical colleagues have in
22 understanding what we're trying to say.

1 Instead, the key things to take and
2 distill out of animal data at this level are, first,
3 hazard characterization. Make sure you understand the
4 nature of the hazard and the conditions under which
5 it's produced, including dose response information.

6 The second subheader is exposure
7 assessment. You have to understand the level of
8 systemic exposure in these animals relative to the
9 clinic.

10 The third are biomarkers, and biomarkers
11 are not extensively huge, yes, but I think they are
12 really going to be the future of making the bridge
13 between animal studies and clinical studies.

14 Just to give you an example, it may be
15 fine for me to say that when you reach a certain
16 systemic plasma exposure, you enter a range where
17 there is a probability of a certain adverse outcome in
18 pregnancy, but you say, but we don't have clinical
19 pharmacokinetic data in that patient.

20 On the other hand, we may know that at the
21 same time in that level of exposure, you see changes
22 in clinical chemistry parameters or there may be

1 clinical signs of toxicity.

2 A good example of application of
3 biomarkers is caffeine. Caffeine produces congenital
4 malformations in rats. It produces ectrodactyly or
5 absence of one or more digits. This is not widely
6 regarded as a significant clinical teratogen.

7 One of the reasons is caffeine is a self-
8 regulating teratogen. The exposure levels in rats
9 that are necessary to produce this malformation would
10 exceed the levels that produce clinical toxicity in
11 most people.

12 So there is a biomarker for you. Are you
13 seeing these clinical signs of toxicity? I think, by
14 translating the animal information away from these
15 technical terms that we feel so comfortable with in
16 the laboratory and in terms of hazard
17 characterization, exposure comparison and biomarkers,
18 I think that's where we can maybe make a bigger
19 difference.

20 CHAIRMAN GREENE: I think that you're --
21 Again, this is another way of rephrasing the notion of
22 dose ratio. At the dose that we normally use caffeine

1 in humans, you don't see any effects in animals.

2 DR. WIER: We're on the same page, Mike.
3 It's just that I'm giving you a little bit more state
4 of the art on this.

5 DR. JONES: Well, listen. We really
6 appreciate the state of the art. I agree with you
7 completely, and I think that, if you could do that,
8 that would be spectacular. I think that, if you could
9 do that, we would -- it would be incredibly useful to
10 us, and we could translate that to our patients as we
11 talk to them. So, agreed.

12 DR. WISNER: I would like to ask a
13 question and make sure I understand the clinical
14 application of what you just said.

15 Let's say we had human data about the
16 outcomes for structural alterations, dysmorphology,
17 embryo/fetal death and growth retardation, but we had
18 none for a specific agent on neurodevelopmental
19 toxicity.

20 If we summarize the data for the first
21 three outcomes for humans and said, well, we have no
22 outcome data for neurodevelopmental toxicities in

1 humans, let's look to the animal data. Is that what
2 you were saying could be done, so that at least there
3 is some information in that particular subheading, or
4 did I miss something?

5 DR. WIER: Well, again, I'm not suggesting
6 that you do it by effect. I'm suggesting that you
7 consider all the hazards that you've identified in the
8 animal studies. That's your starting point, and that
9 you consider the characterization of the hazard, the
10 exposure comparison and the biomarkers that are
11 relevant to the risk assessment.

12 Now you would do this for all the hazards
13 that you've identified in the animal studies. It may
14 be that at some point that this information becomes
15 eclipsed by clinical experience, and yet some is not.
16 I think that's the lasting value of animal studies, is
17 that it's unlikely that you will have adequate
18 clinical data on all the different endpoints -- and I
19 want to emphasize the extent and range of functional
20 endpoints that are conducted in some cases that are
21 unlikely to be assessed to an adequate degree in the
22 clinic, in many cases.

1 CHAIRMAN GREENE: Okay. Then I think
2 we'll try again to move on to the last three questions
3 there with respect to risk communication.

4 Let's see. In the setting where there is
5 little known about risk, how should we communicate
6 this? I think Allen Mitchell stated it well. I think
7 we just have to admit our ignorance and not try to
8 apologize for it.

9 We've touched upon what do we do in the
10 absence of human data. Patrick, I think, has
11 elucidated that.

12 DR. JONES: But, Mike --

13 CHAIRMAN GREENE: Yes, please.

14 DR. JONES: I think there's a variable
15 extent about data that we don't really know about.
16 For example, maybe we have animal -- some animal data
17 that suggests that there's a problem, and maybe we
18 have -- Well, let's say we have an animal data that
19 suggests that there's no problem, and then we have
20 some case reports that suggest there is no problem,
21 and we have a couple of small observational studies
22 that involve 35 and 55 patients each that show that

1 there is no problem.

2 Now in that case, we've got animal data
3 and we've got a little bit of human data that suggest
4 that there is not a problem, as opposed to a drug for
5 which we have no animal data and we have no human
6 data.

7 I think that they are two separate
8 situations that we need to make some distinction. You
9 know, to say we don't have any data here, and we're
10 mea culpa, that's fine. I think we should be doing
11 that as well, but I think we should be making a
12 distinction somehow between the two.

13 TERIS does, in fact, address this issue.
14 We use something called the Hansen U, which is for Jim
15 Hansen, for those of you who know who that is, and
16 it's when the risk is undetermined and the quality of
17 the data is really limited or none.

18 In that case, we use this Hansen U which
19 I've already read to you. If it's strong, we say a
20 very small risk cannot be excluded, but a high risk of
21 congenital anomalies in children of women treated with
22 Blank Drug during pregnancy is unlikely.

1 Then we have a lesser statement in which
2 we say a small risk cannot be excluded, but a high
3 risk of congenital anomalies in children of women
4 treated with Blank Drug during pregnancy is unlikely.

5 So we sort of have two categories there,
6 but it seems to me that the situation that I just gave
7 you merits that kind of a statement, as opposed to
8 there's absolutely no data, we have no idea whether
9 the drug is, in fact, a problem or not.

10 We have a little data. It's not great
11 data, but we have some data.

12 CHAIRMAN GREENE: I think that it would be
13 clear to distinguish between truly no data and a
14 limited amount of data which isn't adequate to meet
15 everybody's needs.

16 Yes, please?

17 DR. HAMMOND: I have essentially a
18 question. That is, is there a place for using
19 information about other drugs in the same class for
20 which we have more experience?

21 DR. DeGEORGE: Perhaps we should have
22 actually had this meeting after we had the meeting

1 next month or at the end of the month, because when we
2 go through how we're going to analyze the data, which
3 is another public meeting, a lot of this has been
4 brought and discussed.

5 In fact, we have this issue about -- I
6 think Dr. Morse showed class information. That means
7 you have human data on the class, either positive or
8 negative, that either suggests that there's a
9 potential problem for this drug, even though no one
10 has identified for this drug, even though it's tested
11 adequately in animal studies or that you know that,
12 even though they're positive in animal studies, you
13 have adequate human data that says we never have a
14 problem with this class of drugs, even though the
15 animals always show it.

16 We intend to feed that into the system
17 about the whole dataset, which would be that -- Part
18 of that information would be in the data discussion.

19 DR. MITCHELL: Could I jump in here?

20 CHAIRMAN GREENE: Yes, please.

21 DR. MITCHELL: I'm not a toxicologist, by
22 a long shot, and I suspect that there are indeed valid

1 class analogies for some of the toxicologic effects of
2 medications, but I would urge real caution about
3 making assumptions, as the agency does, I think, by
4 requirement, about what I call class action
5 teratogenesis, the assumption being that if one member
6 of a class is teratogenic or not teratogenic, then
7 other members of the same class have either similar
8 effects or highly likely to have similar effects.

9 The classic example where that is not true
10 is thalidomide and glutethimide, glutethimide being
11 the old Dorden sleeping pill. They are both
12 gluteramides. They are both members of the same drug
13 class. One is clearly an extremely potent teratogen,
14 and the other is not.

15 So I really worry when there's either data
16 that suggests no effect of a given member of the
17 class, and people are quick to say, well, then other
18 members are probably equally safe, or vice versa.

19 CHAIRMAN GREENE: Well, Allen, I guess I
20 would press you on that and ask whether you think it's
21 better when a new drug is introduced in a class of
22 compounds to just throw up your hands and say we don't

1 know anything or to at least provide by analogy some
2 suggestion as to whether there may or may not be a
3 problem.

4 DR. MITCHELL: I -- For a couple of
5 reasons, the thalidomide example being one where
6 glutethimide would have been painted with the same
7 brush under that assumption. Similarly, if you look
8 at another example, which is Altretnate, a retinoid,
9 a short acting retinoid that is clearly related to
10 Acitretin, a recent publication of a number of
11 perspectively identified pregnancies did not identify
12 any increased risk for this drug, and yet by class
13 labeling there would have been great concern that this
14 is another acutane.

15 So I can't say that I would come down
16 irrevocably in one direction or another, but I have
17 much more comfort when we're talking about the toxic
18 effects or physiologic effects of the drug class,
19 because then we're talking about the mechanism of
20 action of the drug.

21 What we are dealing with in teratogenesis
22 is an unknown effect of the drug, in the sense that we

1 don't know what component of the molecule is
2 responsible for teratogenesis. You know, again, I
3 worry a great deal.

4 At a minimum, I would think that one would
5 need to be careful if one used the class labeling for
6 teratogenesis in explaining to the reader that it's
7 not necessarily predictive of teratogenesis, in which
8 case I would argue why bother putting it in.

9 So I think I would prefer -- Unless six
10 members of the class share a teratogenic or even two
11 share a teratogenic similarity, I would be wary about
12 labeling them all equivalent, particularly when it
13 comes to safety, statements about safety.

14 DR. DeGEORGE: I didn't want to leave the
15 impression that that was the final labeling in terms
16 of this one is a -- this member is of the same member
17 of a class and, therefore, the final conclusion is it
18 is a teratogen.

19 DR. MITCHELL: Oh, no. I'm sorry, I
20 wasn't speaking in response to what you were saying in
21 detail. It's just that I've heard from others and, in
22 fact, if you look at the labeling of the

1 benzodiazepines or a whole variety of classes, the,
2 class -- sort of the class action teratogenesis theme
3 is carried out, and I have concerns about that.

4 I mean, I agree that it can be done much
5 more carefully, but there's a general perception that,
6 since they share toxicities oftentimes, that they are,
7 therefore, likely to share teratogenesis or lack of
8 it.

9 MS. CONOVER: But, remember, we're not
10 just looking at malformations. So one of the things
11 classes do tell us is kind of an educated guess about,
12 say, problems with newborn adaptation or some other
13 issue on the fetus in pregnancy.

14 DR. MITCHELL; Oh, absolutely, and I tried
15 to be very clear that I was restricting my comments to
16 teratogenesis, which presumably is a very different
17 mechanism.

18 DR. WISNER: I would like to ask our
19 animal teratologists for some information about this,
20 because it would seem to me that our animal
21 researchers would have a lot of advice about how
22 different drugs in the same class affect animals.

1 DR. WIER: There are examples in both
2 extremes. There are examples of compounds where the
3 developmental toxicity relates to the action of the
4 drug on the therapeutic target; for example, ACE
5 inhibitors.

6 We understand a little bit about the role
7 of angiotensin converting enzyme in Angiotensin II,
8 maintaining renal perfusion in the fetal kidney and
9 how that relates to fetal pathologies in the kidney.
10 And it's very difficult then, given that, to design an
11 ACE inhibitor that's not going to cause that fetal
12 pathology.

13 So in that case, you know, you're on very
14 strong ground when you make extrapolations across the
15 class.

16 Now there are other cases where the
17 development toxicity might relate to a secondary
18 action of the compound, and the compounds within the
19 class may not all have equal specificity. The
20 intended target may be one subtype of a receptor, and
21 there may be another subtype of receptor that could be
22 mechanistically related to a toxicity.

1 Your drug might have selectivity for the
2 intended receptor. My drug may have less specificity.
3 In that case I would hesitate to make that
4 extrapolation.

5 So the answer to your question is it
6 depends on having that bit of mechanistic information
7 to do it confidently.

8 DR. ROSENE-MONTELLA: There was just
9 another point that I'm thinking that we haven't
10 discussed. As I listened to everybody talk about
11 drugs, we're talking about a drug for a dermatologic
12 condition in the same breath as we're talking about a
13 drug that may be treating a malignancy or a life
14 threatening condition.

15 So I think somehow, as part of a risk
16 assessment, you also have to think about the necessity
17 of the drug. We treat all kinds of symptoms for no
18 reason during pregnancy, and on the other hand, we
19 withhold treatment for very critical medical illness
20 based on our fear about an unknown effect of a drug.

21 So we somehow have to balance which drugs
22 are necessary and start from there. I don't know if

1 that's our job or the FDA's job as you figure out how
2 to classify drugs, because to some extent, that's a
3 clinician's responsibility. But drugs -- We like to
4 teach our residents even that drugs aren't safe or not
5 safe. They are indicated or not indicated.

6 I'd like to see us thinking in that
7 framework as well.

8 CHAIRMAN GREENE: I would guess that the
9 FDA wouldn't want to get involved in making those
10 kinds of drug judgments about indicated or not
11 indicated. That is for the patient/physician
12 relationship.

13 DR. KWEDER: We've done it -- I mean,
14 certainly, we've done it to date with Category X for
15 the most part. I think there are 20-something of
16 those products.

17 We have, for the most part, tried to stay
18 away from making pronouncements, but some of these
19 things are the kind of things that one would -- I
20 could envision at least acknowledging somehow in a
21 clinical considerations context, particularly for
22 products that have more than one approved indication,

1 some of the antifungals, for instance, that are used
2 to treat onycholysis compared -- onychomycosis
3 compared to a systemic fungal infection -- very
4 different risk -- you know, same risk. Same risk,
5 very different benefit. So very different thinking on
6 the part of the clinician.

7 This is tough, I think, you know, and we
8 have our own internal discussions of how to deal with
9 what we've been calling the clinical management
10 statement. We recognize the burden of not crossing
11 lines of interfering with the judgment of the patient
12 and the practitioner.

13 They are hard, and some of the questions
14 that we're asking you get right to that. Where is the
15 line? Help us a little bit with where is the line.
16 But there may be situations, Karen, I think, where it
17 is incumbent upon us to say something, and we
18 recognize that. We've done it for acne with Acutane.

19 DR. LEMONS: Those are all excellent
20 points, and I come back to Alan's suggestion of a
21 boilerplate where principles that may guide decision
22 making might be identified, because it's so hard to be

1 specific in any situation or in enough situations to
2 be helpful to the clinician, but the principles are
3 very important.

4 MS. CONOVER: We have a boilerplate phrase
5 that says something about a decision about whether to
6 use the medication would be dependent on the severity
7 of the maternal condition, which sort of takes that
8 into account, makes them think about that.

9 CHAIRMAN GREENE: Well, Dr. Kweder, have
10 we given you sufficient guidance?

11 DR. KWEDER: Yes. I guess it would help
12 me -- It would help us, I think, if you could
13 specifically -- if anyone on the committee felt like
14 at this late hour they could specifically address
15 question 7.

16 How can uncertainty associated with the
17 predictive value of the animal studies, particularly
18 in the absence of human data, best be communicated?

19 Maybe Pat Wier's comments really spoke to
20 that. But can anyone else comment?

21 DR. WIER: Just to add one thing to that,
22 sometimes this comes up. People ask you about, you

1 know, the uncertainty, and that puts you at a
2 disadvantage when you're trying to explain what you do
3 have.

4 There's a way to turn it around and,
5 instead of talk about uncertainty, you talk about the
6 weight of evidence you have. That can be a more
7 successful approach to take and say, you know, in a
8 relative sense, we're dealing in this case with a
9 limited weight of evidence, in another case an
10 extensive weight of evidence.

11 There's always uncertainty, but you're
12 putting it into that perspective of we're more
13 competent in cases where we have a greater weight of
14 evidence, rather than trying to quantify varying
15 degrees of uncertainty.

16 MS. CONOVER: You know, the problem with
17 that is we virtually never see that in the animal data
18 we look at. I don't know if people don't want to put
19 their neck on the line or what. I can't think of a
20 study where someone actually came out and weighed
21 their certainty of how the animal data had relevance
22 to humans.

1 DR. WIER: Just to make a plug for the
2 integrated data analysis scheme, the so called Wedge,
3 I think what's really great about what the FDA has
4 produced there is that's really a nicely formulated
5 weight of evidence approach to data evaluation. I
6 think we ought to encourage more of this type of
7 thinking.

8 DR. KWEDER: Question 8 -- We've had many
9 comments made to us in many forms about, you know,
10 people kind of cringe at some of the language in
11 labels, and talking about how some of the words that
12 are used carry great emotional weight and connotation,
13 and simply by their use -- like no one reads the rest
14 of it.

15 I was wondering if you could maybe -- I
16 don't want to plant any seeds, but is that something
17 that the panel recognizes as a challenge that we have
18 to deal with, and what are some of those?

19 I guess I also -- like "caution" is one of
20 them. What does caution mean? Placental barrier is
21 another one that people have used. Beth, you probably
22 could speak to this a fair amount as a genetics

1 counselor.

2 MS. CONOVER: You know, for some reason,
3 the statement is often made that it crosses the
4 placenta in rats. It makes my patients terribly
5 anxious. I can explain to them that, of course, we
6 kind of think everything crosses a placenta. I mean,
7 until proven otherwise, we worry about it, and that
8 that shouldn't alarm them. But for whatever reason,
9 it doesn't provide a lot of help to me in making the
10 risk assessment, and it alarms my patients, and
11 actually their providers.

12 So I think that could be deleted.

13 DR. O'LOUGHLIN: I think you probably want
14 to just stick to stating facts instead of like
15 interpretation type words like caution, you know, low,
16 high, stuff like that. I mean, if it's factual based,
17 I think people can really understand that better than
18 something that's been interpreted by even a large
19 group of people that put it down.

20 I mean, it's up to the interpreters, and
21 that's not every provider or patient that's out there.

22 CHAIRMAN GREENE: Other thoughts? Yes?

1 DR. ANDREWS: As I said before but worth
2 restating, that the word concern is less helpful than
3 to state the facts, state the data, state what the
4 known risk is.

5 CHAIRMAN GREENE: One other word that I
6 find laypersons tend to misinterpret is the word
7 probability. When they hear probability, they think
8 we mean it is likely, whereas we interpret probability
9 as sort of a neutral. The probability could be
10 extremely small, but there's still a probability.

11 So I think that the word probability is
12 problematic.

13 MS. CONOVER: And practically all the
14 phrases used in the animal things like delayed
15 ossification, you know, are just terribly alarming to
16 patients and providers, and it's almost to the point
17 where you can't use the phrasing.

18 One of the things we learn in genetics is
19 we don't use the word teratogenesis. I mean, we have
20 lingo for everything, but when we talk to patients and
21 providers, we mostly take it -- you know, we delete
22 it, because it suggests alarm when you're not

1 necessarily trying to phrase that.

2 DR. KWEDER: So what would you use
3 instead?

4 MS. CONOVER: Well, now as a provider
5 actually -- put that hat on -- delayed ossification is
6 of less interest to me than what does that mean. Do
7 you know what I mean? I mean, I guess if you use the
8 phrase, you always have to explain it. But I had a
9 situation recently where there was an animal study
10 suggesting that it looked like it was related to
11 toxicity, and they had an ultrasound where the fetus
12 was missing an arm, and they were making a direct link
13 because of this.

14 I think, you know, they just don't
15 understand what the animal data is telling them, but
16 they were alarmed. The patient was alarmed. I mean,
17 everyone was alarmed by the phrase.

18 So I think they are very poorly
19 understood. I think long words that sound very
20 technical -- and that's not talking down to patients
21 and not talking down to providers. I just think it's
22 true.

1 CHAIRMAN GREENE: But that may be a good
2 example when delayed ossification is an observation in
3 either animal or human data, that delayed ossification
4 does not mean absence of a limb. That's where it may
5 be inevitable that laypersons are going to need
6 professionals to help interpret the information.

7 DR. WISNER: I think before, too, when I
8 raised the issue about the subheadings, we will have
9 exactly this problem with the current way the
10 subheadings are titled.

11 I would again press for operational
12 definitions. For example, dysmorphogenesis as a
13 subheading or functional toxicities have a kind of
14 negative valence to them that we might want to think
15 through.

16 My main problem with the verbiage that
17 occurred in some of the labeling really had to do with
18 statements like the risk for injury to the fetus must
19 be balanced against the risk of permanent injury or
20 harm to the mother, those kinds of very powerful
21 statements that patients read that might cause them to
22 abruptly discontinue a medication that could be very

1 important for them to be taking.

2 CHAIRMAN GREENE: Other comments? Dr.
3 Kweder?

4 DR. KWEDER: I could keep you here until
5 tomorrow, but I won't. I would just like to thank all
6 of you for your thoughts and your participation.

7 I think what we'll do is -- I've certainly
8 taken copious notes. We have a transcript of this.
9 I feel that the message we've gotten from you -- much
10 of it relates to sort of tweaking the general idea of
11 what we have and fine tuning how we would facilitate
12 its implementation in a way that will allow
13 information to be put out that's meaningful and useful
14 for clinicians and possibly patients.

15 I can't promise you that we will take
16 every suggestion you've made, because many of you
17 haven't agreed. So we'll have to take all of that
18 into consideration and see what we can come up with
19 that's workable.

20 We will probably develop more models and
21 take them out for focus testing based on your
22 comments. We think that that is a subjective tool,

1 but it does -- you know, it's pretty real life.

2 I would like to tell you that we may
3 reconvene this subcommittee in the future to address
4 more detailed data assessment questions and even
5 possibly help us with difficult cases that we are
6 encountering at the agency.

7 So I want to thank you all so much for
8 making the trip here. We really appreciate your time
9 and the obvious great deal of thought that you've put
10 into this.

11 CHAIRMAN GREENE: Thank you. Yes?

12 DR. WISNER: Can I ask a final question?
13 We got this wonderful handout about the FDA videos,
14 and I'm assuming that the video tape of this session
15 would be -- No? But I do have a question about
16 whether -- I understand the copyright restrictions,
17 but I want to clarify that the FDA has no other
18 specific restrictions on how this might be used. We
19 can show it for educational purposes?

20 DR. KWEDER: Kimberly, can you address
21 that?

22 MS. TOPPER: The FDA has absolutely

1 nothing to do with the gentlemen who come and do the
2 video taping for us. They do it as a business. They
3 are allowed to put fliers out. If you are interested
4 in purchasing it, be my guest. You can use it however
5 you want. Please be nice, though.

6 DR. WISNER: And I also just want to say
7 I thought that the presentations today were very
8 excellent, and I was frankly not looking forward to
9 coming to yet another conference, but this really was
10 a very stimulating conference.

11 CHAIRMAN GREENE: Agreed. Thank you all.


12 (Whereupon, the foregoing matter went off
13 the record at 4:16 p.m.)
14
15
16
17
18
19
20
21
22

C E R T I F I C A T E

This is to certify that the foregoing transcript in
the matter of: MEETING

Before: PREGNANCY LABELING SUBCOMMITTEE
Date: JUNE 3, 1999
Place: SILVER SPRING, MARYLAND

represents the full and complete proceedings of the
aforementioned matter, as reported and reduced to
typewriting.



Look-See Concordance Report

 UNIQUE WORDS: 4,152
 TOTAL OCCURANCES: 21,213
 NOISE WORDS: 385
 TOTAL WORDS IN FILE:
 59,985

 SINGLE FILE CONCORDANCE

 CASE SENSITIVE

 NOISE WORD LIST(S):
 NOISE.NOI

 INCLUDES ALL TEXT
 OCCURRENCES

 IGNORES PURE NUMBERS

 WORD RANGES @ BOTTOM
 OF PAGE

 - 1 -

10:20 [1] 129:11
 10:43 [1] 129:12
 12:03 [1] 206:12
 12th [1] 230:6
 15-year-old [1] 194:11
 15th [1] 161:21
 1950s [1] 299:14
 1:09 [1] 207:2

 - 2 -

20-some [1] 244:5
 20-something [1] 338:15
 20th [1] 91:3
 24-year-old [1] 13:22
 24-years-old [1] 208:3
 24th [1] 69:13
 2:35 [1] 274:3
 2:53 [1] 274:4

 - 3 -

30-15-9-4 [1] 214:9

 - 4 -

40-100 [1] 82:16
 40-85 [1] 82:13
 4:16 [1] 349:13

 - 5 -

50-85 [1] 82:13

 - 8 -

80-year-old [2] 108:8, 10
 8:05 [1] 4:2

 - 9 -

9-12 [1] 161:22
 90th [1] 82:4

 - A -

a.m. [3] 4:2; 129:11, 12
 Abbie [1] 114:20

Abby [1] 66:5
 ability [3] 122:16; 180:5;
 241:10
 able [16] 35:21; 42:13; 75:20;
 83:21; 95:21; 107:3; 126:1;
 131:11; 150:13; 230:19, 21;
 287:13; 290:9; 297:17; 301:7;
 318:16
 abnormal [1] 139:1
 abnormalities [3] 104:1;
 297:8; 309:2
 abnormality [1] 122:7
 aborting [1] 229:21
 abruptly [1] 346:22
 absence [14] 19:1; 30:7;
 131:21; 133:11; 138:20; 159:7;
 162:20; 163:20; 211:9; 279:17;
 325:5; 328:10; 340:18; 346:4
 absolute [12] 83:7, 16, 22;
 85:2, 6, 15; 108:6; 212:14;
 252:2; 307:17; 311:10; 317:22
 Absolutely [1] 305:11
 absolutely [9] 35:4; 211:14;
 218:5; 233:4; 241:15; 305:1;
 330:8; 335:14; 348:22
 abstract [1] 316:15
 academia [1] 238:15
 academic [3] 28:2; 225:20;
 318:1
 Academy [2] 225:7; 244:15
 accept [4] 109:18; 163:19;
 207:18; 211:16
 acceptability [1] 74:17
 acceptable [5] 67:4, 13;
 118:22; 136:7; 272:16
 accepted [2] 143:19; 267:18
 access [4] 43:4, 5; 52:12;
 106:17
 accessible [5] 81:3; 93:9;
 96:7; 139:22; 140:21
 accidents [1] 92:1
 accomplish [2] 93:16; 185:16
 accomplishment [1] 220:8
 accordance [1] 5:1
 according [1] 121:10
 account [16] 39:11; 40:2;
 58:19; 61:7; 67:8; 68:4; 117:1;
 162:17; 213:2; 252:11, 17;
 254:4; 265:18; 301:13; 311:15;
 340:8
 accuracy [1] 88:19
 accurate [3] 143:10; 192:2;
 208:20
 accurately [2] 220:20; 316:8
 ACE [2] 336:4, 11
 achieve [1] 113:1
 achievement [1] 225:20
 acid [4] 153:12; 241:21;
 307:10; 315:7
 acidosis [1] 182:14
 acids [1] 153:8
 Acitretin [1] 333:10
 acknowledge [11] 110:8;
 120:15; 128:12; 129:1; 172:21;
 211:14; 215:4; 216:6; 289:11;
 302:16, 21
 acknowledged [4] 110:3;
 222:5; 224:5; 284:22
 acknowledging [2] 110:5;
 338:20
 acknowledgment [1] 38:4

acne [1] 339:18
 ACOG [1] 287:4
 acquired [1] 279:21
 acquires [1] 27:2
 Act [1] 238:19
 Acting [2] 7:15; 18:13
 acting [1] 333:9
 action [6] 160:13; 332:4;
 333:20; 335:2; 336:3, 18
 active [8] 29:12; 52:7; 125:3;
 201:1; 256:4; 309:1; 321:5
 activities [4] 22:3; 48:2;
 90:17; 91:10
 activity [3] 91:1; 314:7
 actual [7] 117:13; 191:3;
 200:21; 259:21; 275:11; 287:9;
 290:2
 Acutane [1] 339:18
 acutane [2] 210:22; 333:14
 adapt [1] 271:19
 adaptation [2] 299:20; 335:12
 adapted [1] 254:14
 add [10] 51:5; 106:15; 121:21;
 185:17; 199:7; 242:6; 292:21;
 295:9; 318:4; 340:21
 added [1] 28:20
 addition [3] 36:22; 204:15;
 246:8
 additional [7] 62:11; 124:11;
 128:2; 195:14; 204:4; 246:19;
 305:22
 Additionally [2] 182:4; 292:8
 address [40] 5:15; 33:11;
 39:12, 15, 17; 40:1, 9; 103:20;
 116:18; 119:12; 168:10;
 181:11; 182:2, 5; 186:4, 9;
 192:13, 20; 193:11, 13; 194:4;
 198:3; 262:21; 263:15; 279:5;
 280:13; 298:6; 299:6; 305:13;
 313:4; 314:12; 316:21; 318:3,
 17; 321:7;
 329:13; 340:14; 348:3, 20
 addressed [4] 93:1; 181:19;
 262:4; 306:19
 addresses [2] 4:13; 121:8
 addressing [7] 53:3; 120:3;
 143:21; 194:5; 219:13; 245:4;
 246:7
 adds [2] 27:14; 101:3
 adequacy [2] 58:5; 62:19
 Adequate [1] 62:13
 adequate [8] 29:21; 121:14;
 227:7; 322:2; 327:17, 21;
 330:14; 331:13
 adequately [3] 26:17; 226:6;
 331:11
 administered [11] 139:6;
 219:17, 19, 21; 221:20; 223:4,
 10; 225:12; 226:8; 227:8;
 239:22
 Administration [2] 224:5;
 238:19
 admit [2] 221:4; 328:7
 adolescent [6] 28:15; 108:8,
 9; 193:14, 21
 adolescents [3] 192:15;
 193:15, 18
 adopted [2] 231:14; 254:18
 adult [3] 28:15; 160:6, 14
 adults [3] 13:17; 193:19;
 251:21

advance [2] 162:5; 213:18
 advances [1] 241:4
 advantage [4] 109:11; 189:5;
 194:18; 292:14
 advantages [3] 138:17;
 285:16; 296:18
 adverse [22] 40:6; 50:3;
 77:12; 85:17; 87:21; 94:17, 18;
 116:4; 117:2, 4, 6, 7, 11;
 123:22; 160:14; 226:18; 259:1,
 8, 13, 17; 287:9; 324:17
 adversely [1] 224:7
 Advertising [1] 161:1
 advertising [1] 26:15
 advice [21] 51:18; 133:10;
 134:14; 135:12; 140:7; 163:10;
 176:17; 177:3; 179:15; 247:22;
 248:6; 266:1; 268:12; 280:1;
 282:14; 284:2; 291:13, 16;
 304:19; 321:5; 335:21
 advise [10] 29:8; 40:19; 43:9,
 13; 178:14; 221:8; 265:17;
 266:17; 282:16; 283:4
 advised [3] 165:18, 21;
 301:18
 advisement [2] 205:18;
 274:19
 Advisory [1] 111:19
 advisory [5] 5:20; 21:11;
 24:11; 55:5; 227:12
 Advocacy [1] 243:7
 advocacy [1] 207:13
 advocate [6] 145:6; 151:8;
 152:6; 156:22; 167:19; 213:19
 advocated [1] 257:18
 affect [8] 76:21; 83:13; 84:3,
 19; 137:4; 193:21; 224:6;
 335:22
 affected [5] 13:15; 63:14;
 165:13; 242:9; 298:15
 affects [1] 173:11
 AFIs [1] 149:15
 afraid [1] 244:10
 afternoon [8] 203:8; 206:4;
 207:4; 209:10, 15; 216:21;
 218:19; 318:6
 afterwards [1] 153:19
 age [7] 101:1; 177:17; 192:14;
 217:12; 300:7, 8
 agencies [6] 67:5, 6, 11, 14;
 186:20; 268:11
 Agency [3] 245:17; 249:2;
 287:14
 agency [24] 5:6; 7:18; 15:12;
 35:8; 47:22; 56:16; 57:4, 19;
 60:1; 64:20, 21; 65:2; 118:22;
 141:6; 184:21; 219:8; 237:10;
 245:17; 251:11; 292:8; 303:11;
 304:9; 332:3; 348:6
 agenda [2] 4:17; 5:9
 agent [5] 123:17; 160:6;
 242:11; 246:13; 326:18
 agents [7] 90:13; 173:18;
 211:20; 233:15; 253:5; 295:10;
 296:16
 aggregation [1] 223:12
 agony [1] 44:21
 agree [21] 14:13; 36:7; 52:19;
 102:3; 143:1; 178:3; 198:3, 4;
 274:17; 282:10; 286:3; 291:17;
 293:2; 298:7; 303:6, 15; 314:4;

315:12; 319:1; 326:6; 335:4
Agreed [1] 349:11
agreed [7] 11:2; 256:20;
 260:6; 262:13; 266:11; 326:11;
 347:17
agreement [1] 266:10
AHCPR [4] 287:13; 294:18;
 303:2; 305:2
AIKIN [2] 160:21; 168:10
Aikin [3] 160:19, 22; 179:3
aimed [1] 181:13
air [1] 112:19
al [3] 220:18; 222:18; 223:6
Alan [9] 8:18; 9:16, 17, 18;
 146:20; 201:14; 291:7; 292:21;
 339:20
alar [1] 90:11
alarm [2] 343:8; 344:22
alarmed [3] 345:16, 17
alarming [1] 344:15
alarms [1] 343:10
Albert [3] 106:14; 175:8;
 192:9
alcohol [2] 200:10, 18
alert [1] 171:16
alerts [3] 61:8; 69:20; 70:2
alive [1] 79:15
Allen [16] 111:5, 6, 13; 112:5;
 151:22; 152:2; 178:21; 179:1;
 197:21; 198:1; 300:16; 311:1;
 313:11; 322:3; 328:6; 332:19
Alliance [1] 243:7
allow [7] 111:4; 158:7;
 250:10; 263:22; 285:16;
 291:12; 347:12
allowed [1] 349:3
allowing [3] 170:21; 209:5;
 239:12
alluded [7] 54:9; 73:7; 76:22;
 190:18; 192:5; 319:9, 14
alluding [1] 311:4
allusions [1] 294:17
alone [2] 102:11; 143:9
alter [2] 174:7; 278:4
alteration [1] 225:3
alterations [5] 63:7; 223:16;
 278:6; 295:7; 326:16
altered [2] 174:6; 224:21
altering [1] 224:8
alternative [7] 113:8; 155:22;
 165:21; 190:8; 267:9; 269:8;
 301:19
alternatives [8] 190:20;
 191:1, 7; 196:14, 15; 280:3
Altman [2] 223:15; 224:19
Altogether [1] 157:20
altogether [2] 237:6; 306:8
Altretinate [1] 333:8
Alvin [1] 86:3
amazed [1] 220:9
America [2] 187:19; 188:2
American [6] 81:10; 219:6;
 225:18; 226:3, 5; 244:15
Americans [1] 11:20
amongst [2] 67:3; 212:8
amount [14] 15:5; 35:18;
 37:1; 60:12; 126:4; 140:3;
 155:8; 163:22; 191:19; 216:19;
 294:3, 6; 330:14; 342:22
amoxycillin [1] 128:4
ampicillin [1] 319:11

ample [1] 299:9
analogies [1] 332:1
analogy [2] 80:14; 333:1
analyses [2] 220:21; 305:7
analysis [5] 56:14; 57:7;
 89:15; 318:18; 342:2
analyst [1] 160:22
analyze [1] 331:2
analyzed [1] 119:8
anchor [1] 87:4
anchoring [4] 81:4; 86:19, 22
ANDREWS [7] 8:21; 282:10;
 283:17; 284:20; 316:5; 322:6;
 344:1
Andrews [4] 8:21; 49:16;
 66:3; 282:9
anesthesia [1] 220:14
anesthesiologists [2] 220:8,
 10
anew [1] 199:19
Angle [1] 206:9
anglo [1] 74:8
angioplasty [5] 74:6, 9;
 75:12; 77:7; 99:6
angiotensin [1] 336:7
Angiotensin [1] 336:7
Animal [1] 30:12
animals [34] 15:5; 33:5; 61:4,
 7; 121:11; 122:14; 123:11, 14;
 138:22; 210:17; 215:16; 216:3;
 218:9; 222:19; 232:12, 17;
 233:1; 240:1; 241:17; 250:18;
 251:1; 252:6; 253:6; 254:13;
 257:1; 258:8, 11; 266:19;
 267:8; 308:14; 324:8; 326:1;
 331:15;
 335:22
Annex [1] 255:15
annex [5] 255:15; 256:19;
 262:21; 270:14
announcement [2] 4:13;
 206:1
Annual [1] 161:21
annual [2] 91:9, 11
anomalies [3] 315:21; 329:21;
 330:3
answer [22] 94:10; 97:9;
 102:5; 113:6; 119:5; 129:2;
 185:14, 16; 188:13; 188:3;
 197:19; 200:2, 4; 260:2;
 262:10; 276:4; 277:8; 279:9;
 298:3, 4; 337:5
answered [1] 161:21
answering [1] 121:20
answers [1] 56:5
antenatal [1] 143:22
anti-infective [1] 46:4
anti-seizure [1] 174:5
antibiotic [1] 23:10
antibiotics [1] 78:22
anticipate [3] 24:2; 44:14;
 146:15
anticipating [1] 205:3
anticipation [1] 209:14
antidepressants [1] 170:17
antiepileptic [1] 261:5
antifungals [1] 339:1
antimicrobial [1] 18:17
antiquated [1] 323:10
antiretrovirals [1] 150:8
Antiviral [1] 54:1

antiviral [1] 204:14
anxiety [1] 236:11
anxious [4] 221:16; 309:17;
 310:5; 343:5
Anybody [1] 40:21
anybody [1] 22:13
anymore [2] 20:10; 205:16
anytime [1] 208:21
Anyway [1] 323:12
anyway [2] 150:5; 204:1
anywhere [4] 82:10, 11; 88:6;
 210:22
AP [1] 287:4
Apgar [1] 228:13
apologize [3] 135:21; 291:1;
 328:8
apparent [1] 223:1
Apparently [1] 217:17
apparently [1] 214:1
appear [3] 92:14; 225:1;
 285:15
appearance [1] 4:16
appears [2] 38:15; 181:8
apples [1] 90:12
applicability [1] 138:14
applicable [2] 61:20; 67:17
applicants [1] 247:9
application [11] 25:9, 11;
 31:12; 56:21; 76:7; 131:9;
 146:12; 186:5; 247:10; 325:2;
 326:14
applied [1] 194:2
apples [1] 90:7
apply [10] 23:1; 51:13; 59:15;
 96:11, 16; 112:9; 140:12;
 205:18; 230:16; 231:8
applying [1] 32:8
appointment [1] 291:2
appreciate [5] 6:2; 188:17;
 219:13; 326:6; 348:8
appreciated [1] 209:6
appreciation [1] 228:5
appreciative [2] 209:1, 4
apprised [1] 26:18
approach [21] 38:18; 47:18;
 54:22; 59:5; 61:19; 69:9;
 84:21; 121:18; 130:17; 141:18,
 19, 20; 147:20, 21; 158:1;
 176:18; 178:7; 192:1; 268:3;
 341:7; 342:5
approached [2] 119:16;
 268:12
approaches [3] 101:7; 158:4;
 185:6
approaching [1] 211:6
appropriate [28] 56:21; 68:2;
 121:16; 137:9, 19; 144:22;
 148:12; 152:6; 165:15; 168:18;
 171:3; 172:8, 12; 186:11;
 202:13; 204:12; 205:10; 238:2;
 240:3; 251:16; 256:2, 13;
 266:6; 279:5; 294:11; 302:3;
 304:9; 316:17
appropriately [3] 200:1;
 239:14; 241:16
approval [3] 113:9, 12;
 247:17
approve [1] 27:9
approved [15] 23:7; 26:1;
 109:22; 128:4; 159:3, 9;
 215:22; 221:11, 14; 246:10;

247:8, 11; 321:19; 338:22
approximately [1] 129:8
arborization [2] 223:27;
 224:10
area [27] 14:13; 19:9; 22:4;
 27:4; 34:22; 42:9; 47:15, 20;
 48:6; 51:22; 55:9, 12, 20; 56:2;
 58:18; 67:19; 89:7; 91:3;
 119:16, 17; 127:10; 266:22;
 278:22; 288:3; 298:10; 303:8;
 319:19
areas [10] 39:22; 68:14;
 162:16; 181:17; 225:21;
 226:14; 235:6; 311:3, 12;
 320:9
Aren't [1] 168:8
aren't [12] 31:2; 41:12;
 101:19; 109:20; 179:6; 185:1;
 245:3; 276:22; 299:13; 303:17;
 338:4
argue [5] 91:15; 198:15;
 305:10; 314:3; 334:8
argues [1] 98:19
ark [1] 133:18
Arkansas [1] 16:11
arm [1] 345:12
arms [1] 51:20
arranged [1] 167:8
arriving [1] 262:1
art [5] 308:4, 13; 309:12;
 326:4, 6
arthritic [1] 231:4
arthropathy [1] 205:7
article [6] 89:5, 8; 98:3; 165:5;
 230:2; 231:11
articles [1] 87:13
articulate [3] 168:7; 178:9;
 286:7
articulated [1] 155:7
artificial [1] 315:15
aside [1] 182:18
asking [9] 139:9; 156:20;
 159:11; 166:19, 22; 204:18;
 205:2; 279:1; 339:14
asks [1] 62:18
aspect [5] 51:21; 69:16; 72:9;
 94:17; 107:22
aspects [6] 37:7; 124:18;
 248:2; 249:14; 294:13; 297:2
asphyxia [1] 223:1
assess [2] 68:19; 226:7
assessed [2] 252:16; 327:21
assessing [2] 59:9; 122:4
Assessment [1] 8:19
assessment [28] 33:18; 55:1;
 135:1; 138:2; 150:12, 18;
 157:15, 18; 168:4; 201:20;
 214:19; 232:7; 233:7; 252:20;
 253:3; 255:8; 283:5; 291:12,
 21; 293:17; 301:11; 303:3;
 314:10; 324:7; 327:11; 337:16;
 343:10; 348:4
assessments [3] 249:10;
 251:13; 254:11
assign [3] 81:13; 270:18;
 315:14
assigned [5] 30:17, 21; 31:9,
 19; 32:3
assigning [3] 22:20; 41:6;
 69:11
assignment [1] 61:12

assist [4] 29:1, 11; 54:15; 64:18
Assistant [1] 8:2
assisting [1] 40:15
Associate [2] 7:20; 66:3
associated [15] 30:8; 73:8; 75:13; 110:1; 155:18; 196:1; 199:9; 208:6; 217:9; 253:1; 255:8; 279:15; 292:22; 293:8; 340:16
Association [1] 219:4
assume [4] 103:17; 212:16; 299:18; 302:8
assumed [2] 222:17; 223:7
assuming [3] 69:15; 321:18; 348:14
assumption [4] 117:5; 314:3; 332:5; 333:7
assumptions [1] 332:3
assurance [1] 304:3
assure [1] 245:2
asthma [8] 165:22; 191:8; 301:19; 318:11; 320:10, 11, 13
ate [1] 153:12
Atlantic [1] 249:21
attached [1] 214:18
attained [1] 5:5
attempt [5] 137:2; 172:15; 243:18; 271:13; 282:18
attempted [1] 220:2
attempting [1] 57:1
attempts [1] 56:19
attended [2] 225:6; 227:15
attention [11] 6:2; 26:13; 43:2; 51:22; 88:3, 12; 193:7; 225:9; 261:17; 306:22; 311:17
audience [5] 11:7; 29:18; 131:17; 134:17; 210:2
audio [1] 73:20
author [4] 8:9; 98:4, 8; 137:2
authored [1] 169:17
authority [5] 114:10; 191:4; 247:8, 11, 18
authorization [2] 247:10, 13
authorized [1] 269:9
authors [2] 99:20; 134:5
Availability [1] 87:9
availability [7] 67:1; 86:19; 88:10; 107:2, 7; 162:20; 163:16
average [5] 76:10, 14; 177:3; 317:20
avoid [4] 131:20; 271:21; 302:11
avoided [1] 280:1
avoiding [2] 211:19, 22
aware [5] 5:11; 156:18; 175:12; 181:21; 238:6
awkward [1] 157:14
Axelrod [1] 81:10
axes [1] 91:7

- B -

babies [2] 243:15, 19
baby [9] 104:11; 105:13; 153:14; 168:5; 205:15; 227:14; 236:10; 244:10
back-up [2] 8:4; 288:20
backdrop [2] 78:5; 94:8
background [19] 18:18;

19:16; 21:20; 57:3; 100:18; 101:2; 126:12, 15; 133:3; 138:13; 143:7; 242:11; 246:4; 271:18; 305:20; 306:3, 12; 307:11; 316:11
backing [1] 322:21
backwards [1] 214:13
badness [1] 72:20
balance [5] 12:4; 73:13; 291:9; 304:17; 337:21
balanced [2] 39:21; 346:19
balancing [4] 108:2; 211:22; 212:19, 21
bar [2] 283:13, 17
Barbara [1] 243:5
barrier [1] 342:20
Based [2] 4:17; 138:21
based [45] 25:16; 31:20; 32:7; 39:3; 60:11; 61:4, 8, 19; 67:1; 69:8; 70:2; 73:21; 87:1, 15; 96:11; 101:1; 102:7, 17; 110:10; 126:12; 139:4; 151:16; 155:6; 189:18; 207:13; 210:14; 221:22; 236:15; 241:7; 273:9; 278:3; 282:18; 283:1, 7; 284:19; 286:5, 17; 308:20; 317:18; 322:2; 337:20; 343:16; 347:21
baseline [4] 22:17; 217:11; 304:14, 15
basic [4] 72:14; 78:6; 132:3; 134:11
Basically [3] 69:18; 81:18; 85:14
basically [14] 57:3, 18; 61:2; 63:17; 70:6; 76:10; 79:5; 88:14, 18; 90:16; 121:3; 168:5; 190:1; 288:1
basing [1] 314:21
basis [10] 26:21; 27:6; 32:4; 34:2; 65:6; 91:5; 224:16; 247:14; 265:15; 287:15
be-all [1] 65:17
Beach [8] 8:7, 8; 141:18; 173:8; 196:17; 203:16
bear [1] 313:15
beat [2] 174:19; 222:14
beautiful [1] 206:10
becomes [4] 61:22; 103:12; 156:11; 327:14
becoming [2] 137:6; 243:16
Beecham [1] 7:2
begins [4] 50:7; 60:13; 61:17; 62:22
begun [1] 50:18
behalf [3] 105:16; 245:20; 259:18
behave [1] 272:4
behaves [1] 131:22
Behavior [1] 223:15
behavior [2] 224:16; 225:18
behavioral [3] 225:9, 14; 297:9
behind [3] 225:19; 262:6; 292:18
BEHRMAN [33] 129:18; 142:22; 144:10, 15; 145:5; 146:8; 147:8; 148:13; 149:22; 150:20; 151:5, 20; 152:16; 154:14; 156:14; 157:20; 158:1; 159:11; 168:12; 176:6; 177:8;

182:18; 184:20; 187:13; 189:10; 190:15; 191:21; 195:8; 196:5; 199:7, 20; 200:15; 203:7
Behrman [2] 44:16; 129:16
Believe [1] 101:22
believe [17] 15:19, 22; 96:2; 101:6; 121:6; 204:14; 210:1, 9; 211:11, 16; 219:15; 237:21; 238:20; 291:10; 294:9; 304:5; 317:2
belong [1] 251:4
belongs [1] 318:19
bendectin [3] 229:14; 233:14, 19
beneficial [2] 108:2; 237:7
benefit [26] 13:5, 7; 29:15; 31:16, 17; 32:2; 39:20, 21; 62:2; 73:6, 11, 13; 74:18; 80:12, 21; 108:3; 110:9; 172:19; 173:5; 185:8; 216:8, 11; 250:1; 304:17; 318:18; 339:5
benefits [9] 11:19; 12:5, 9; 16:18; 79:22; 97:3; 136:22; 158:3; 220:16
benign [1] 222:17
benzodiazepines [1] 335:1
Bern [1] 16:10
besides [1] 160:4
beta-Sympathomimetic [1] 246:13
Beth [5] 6:16; 100:6; 160:2; 187:21; 342:21
Bethesda [1] 86:9
BfArM [1] 261:13
bias [12] 85:8; 86:19, 20, 22; 87:1, 9; 88:10; 107:7; 109:9; 180:3; 301:3; 317:7
blases [1] 109:11
bigger [4] 35:16; 36:2; 268:10; 325:18
biggest [3] 34:19, 21; 101:9
billirubin [1] 160:8
binding [3] 23:22; 24:7; 276:21
biochemical [2] 224:14, 15
biologic [8] 23:2, 8; 25:2, 8; 155:11; 159:18
biological [2] 308:13, 20
Biologics [2] 26:2; 35:10
biologica [1] 22:21
biology [1] 9:7
biomarker [1] 325:12
biomarkers [5] 324:10; 325:3, 17; 327:10
Birth [1] 7:12
birth [27] 46:20; 75:1; 196:19, 20; 197:1, 19; 198:11, 17, 18; 221:12; 222:6, 14, 15; 224:6; 226:19; 227:9; 231:18; 236:19; 252:4, 18; 257:14; 296:20; 300:6, 9; 303:20; 304:15; 313:16
births [1] 228:6
bit [32] 18:10; 19:16; 28:19; 71:3; 72:17; 82:5; 88:22; 89:4; 91:17; 98:20; 100:14; 119:13; 120:22; 131:3; 132:19; 134:21; 135:20; 157:14; 186:19; 192:22; 193:7; 251:22; 263:6;

272:3; 276:20; 280:12; 284:2; 326:3; 329:3; 336:6; 337:6; 339:15
biting [1] 288:4
black [1] 81:20
blah [6] 145:13; 183:13
Blank [3] 315:21; 329:22; 330:4
blanket [3] 158:17; 180:9, 10
bleeding [2] 75:13; 223:13
bleeds [1] 223:21
blood [10] 95:16; 101:20; 174:11; 223:5; 231:22; 232:1, 3, 5; 240:16; 253:1
board [4] 201:12; 243:8, 9; 287:20
bodies [2] 119:20; 134:10
body [3] 17:9; 134:4; 152:4
boilerplate [9] 304:10; 305:14; 310:21; 311:1; 315:18; 320:9, 18; 339:21; 340:4
Bonnie [5] 6:19; 143:14; 174:1; 183:6; 189:13
book [8] 8:10; 37:19; 142:1, 15; 152:21; 157:10; 180:22; 282:4
booklet [1] 150:17
books [1] 142:5
born [1] 139:3
borrow [1] 287:13
Boston [3] 4:5; 6:15; 9:20
bother [2] 60:11; 334:8
bound [1] 115:5
box [2] 131:13; 169:7
boxes [2] 277:4; 288:13
boxing [1] 150:2
boxy [1] 130:12
boy [1] 276:9
brain [13] 222:21; 223:5, 7, 14, 17, 22; 224:6, 8, 16, 22; 225:7; 226:1, 15
Brainstorm [1] 52:9
bran [1] 224:21
brand [1] 224:2
break [5] 60:2, 15; 129:9; 206:1; 273:21
breast [3] 88:1, 4; 101:17
breastfeed [1] 243:18
Breastfeeding [1] 243:7
breastfeeding [5] 243:15; 244:2, 6, 16; 256:7
breath [1] 337:12
BRENT [1] 229:3
Brent [2] 229:2; 239:17
brian [1] 225:2
brickbats [1] 277:11
bridge [1] 324:12
bridging [1] 138:7
brief [5] 222:19; 275:9; 281:3, 7; 282:11
briefing [1] 215:20
briefly [3] 94:16; 216:19; 305:14
BRIGGS [8] 8:6; 141:17; 173:7; 177:10; 187:18; 196:16; 203:15; 281:12
Briggs [12] 8:6; 141:17; 156:12; 173:7; 177:6; 196:17; 198:4; 203:14, 16; 244:18; 281:11; 319:14
brilliant [2] 97:17; 105:11

bringing [2] 18:6; 215:3
 brings [2] 138:19; 212:3
 Britain [1] 79:16
 broad [8] 36:5; 52:11; 82:14;
 161:14; 170:13; 178:12;
 294:14; 312:13
 broadened [1] 296:22
 broader [1] 17:4
 broadly [2] 45:6; 55:6
 broke [1] 124:3
 broken [1] 63:13
 Brown [2] 147:13; 181:6
 brush [1] 333:7
 Building [1] 5:7
 built [1] 121:7
 bulk [1] 21:19
 bullet [1] 288:4
 bulleted [1] 135:12
 bunch [2] 99:3; 290:4
 bupivacaine [1] 226:18
 burden [1] 339:10
 burning [1] 208:15
 business [2] 50:4; 349:2
 busy [3] 81:7; 254:7; 281:7
 buy [1] 282:4

- C -

cabinet [1] 50:2
 Caffeine [1] 325:3
 caffeine [3] 325:3, 7, 22
 calendar [2] 277:18, 20
 caliber [1] 11:1
 California [8] 8:8, 12, 13;
 9:14; 125:10; 141:18; 173:8;
 177:12
 call [19] 6:6; 24:16; 53:16;
 115:20; 123:22; 124:9; 129:13;
 177:7; 183:22; 210:5; 211:6;
 221:19; 234:11; 235:10; 275:7;
 282:3, 5; 305:17; 332:4
 calling [1] 339:9
 calls [7] 70:8; 107:9; 235:1;
 236:12; 244:5, 8, 9
 Canada [1] 48:11
 cancer [12] 75:5; 77:19, 21;
 78:2; 80:20; 88:1, 4; 101:17,
 18; 103:3, 6; 233:15
 cans [1] 91:18
 capacities [1] 68:15
 capture [1] 290:9
 carcinogen [1] 160:12
 Care [1] 287:14
 care [33] 7:5; 8:3; 12:3, 21;
 15:13; 16:21; 45:21; 78:2;
 84:15; 115:11; 132:14, 16;
 143:19; 148:6, 7; 149:4; 176:1,
 2; 177:3, 4; 178:4; 180:6, 20;
 182:7, 9; 189:19; 190:5;
 195:20; 207:20; 219:9; 221:22;
 289:9
 cared [1] 147:17
 careful [13] 43:8, 20; 115:12;
 140:16; 149:6, 21; 190:15;
 210:15; 252:19; 270:9; 316:12;
 334:5
 carefully [2] 252:16; 335:5
 Carolina [2] 9:5; 127:9
 carotid [2] 97:1; 99:18
 carried [4] 112:1; 118:17;
 222:18; 335:3

carries [2] 43:17; 109:2
 carry [6] 12:1, 7; 37:19; 44:5;
 90:1; 342:12
 carry-through [1] 117:7
 Case [2] 9:8; 104:19
 case [45] 26:9; 38:14, 17;
 53:1; 73:5; 97:22; 104:13;
 113:11; 115:10, 12; 119:9, 10;
 123:17; 136:6; 139:22; 142:21;
 151:19; 158:13; 169:21;
 172:20; 242:14; 250:22;
 254:15; 255:1; 257:15, 19, 22;
 258:17; 259:11, 13, 16, 19;
 265:15, 20; 277:9;
 312:10; 328:20; 329:2, 18;
 334:8; 336:13; 337:3; 341:8, 9
 cases [27] 121:13; 135:13;
 136:5; 139:12; 142:9; 143:9;
 173:12; 175:17; 186:14, 16;
 193:10; 204:12; 210:20;
 242:14; 258:13; 265:20;
 266:14; 271:17; 272:16;
 273:16; 281:1; 321:16; 327:20,
 22; 336:16; 341:13; 348:5
 catastrophic [6] 77:17; 89:18,
 22; 90:2; 92:8; 109:5
 categorical [1] 111:17
 categorically [1] 284:18
 categories [45] 16:1; 20:10;
 21:17; 22:21; 29:19; 32:9;
 34:7, 16; 38:21; 41:12; 69:19;
 70:12; 112:7; 128:1, 3, 9;
 133:6; 135:21; 151:13; 158:14;
 172:18; 213:20; 214:3, 6, 16,
 18, 21; 215:1; 219:8; 229:20;
 230:3; 249:19, 21; 250:4;
 270:18;
 271:8, 11, 12, 16; 272:19;
 283:19; 296:11; 330:5
 categorization [3] 62:3;
 266:1; 280:19
 categorize [2] 130:8; 287:15
 Category [26] 27:20; 29:20;
 30:10, 17, 18, 19, 22; 31:6, 9,
 15, 19, 22; 32:3, 22; 34:1, 2;
 39:2; 41:9; 93:14; 136:21;
 215:12; 338:14
 category [20] 22:19; 32:10;
 33:10; 34:9; 37:15; 42:19;
 117:16; 128:5, 7; 130:6; 163:8;
 215:4, 5; 218:2, 4, 9; 219:16;
 251:4; 253:12; 272:13
 causal [1] 290:11
 causality [3] 210:15; 211:10,
 14
 caused [2] 197:3; 216:15
 caution [14] 144:4; 211:9;
 224:18; 242:7; 257:5; 258:20;
 259:4, 9, 15; 260:8; 332:2;
 342:19, 20; 343:15
 cautions [1] 223:10
 caveats [1] 120:14
 CDC [2] 7:13; 49:16
 CDER [1] 54:19
 cell [2] 223:18; 224:9
 cells [1] 224:15
 Center [14] 7:6, 21; 8:8;
 10:12, 22; 11:4; 16:11; 19:10;
 54:5; 56:3; 70:22; 98:6; 161:2
 center [1] 10:2
 centered [2] 78:17; 162:15

centering [1] 79:2
 centers [2] 35:10; 59:14
 central [1] 224:8
 centralized [1] 189:3
 century [7] 11:16, 17; 12:1;
 13:10; 79:6, 9; 222:5
 certainty [5] 35:1; 76:4, 5;
 312:14; 341:21
 certified [1] 243:9
 Chair [3] 6:5; 94:14; 219:4
 chair [3] 4:6; 206:7; 229:1
 chaired [2] 227:12; 228:3
 Chairman [1] 54:4
 challenge [24] 12:8, 11; 13:3,
 9; 14:16, 18; 16:14, 16; 17:5,
 11, 15; 34:21; 46:11; 75:11,
 21; 77:11; 95:17; 101:9;
 129:1; 199:6; 268:10; 269:3;
 315:8; 342:17
 challenges [14] 12:2; 16:19;
 71:9; 73:2; 74:21; 76:2; 80:2;
 84:7; 92:4; 93:6; 94:10; 95:8;
 112:16; 127:20
 challenging [1] 95:14
 chance [6] 107:13; 111:5;
 113:20; 209:8; 236:9; 323:7
 change [21] 20:11; 24:7; 27:3;
 34:9; 64:13, 14, 16, 17; 70:9;
 75:3; 111:21; 112:2; 155:22;
 167:1; 237:10, 11; 241:10, 11;
 256:17; 277:2
 changed [2] 80:17; 247:17
 changes [18] 27:1; 35:15, 22;
 44:10; 55:18, 19; 132:19;
 145:3; 149:12; 161:18; 170:18;
 238:7; 241:5; 242:2; 267:12;
 286:22; 305:21; 324:21
 changing [5] 22:9; 31:11;
 33:21; 144:1; 180:13
 chaotic [1] 280:12
 characteristics [5] 60:14, 21;
 61:3; 246:22; 247:2
 characterization [9] 116:22;
 124:9, 16, 19, 20; 125:8;
 324:3; 325:17; 327:9
 charge [3] 10:5; 44:4; 55:21
 charged [1] 54:20
 chart [3] 233:9, 11, 13
 chartered [1] 56:3
 chase [1] 125:13
 chat [1] 43:14
 cheated [1] 228:12
 check [3] 268:21; 267:10;
 272:3
 checked [1] 251:8
 checking [1] 272:5
 chemical [2] 188:4; 308:1
 chemistry [3] 223:17; 224:21;
 324:22
 chemotherapeutic [1] 233:15
 Child [2] 219:6; 237:19
 child [7] 14:13; 153:19;
 222:12; 235:15, 17; 257:22;
 259:19
 childbearing [11] 177:16;
 249:15; 255:21; 256:1; 257:16;
 263:3, 5, 10; 264:2, 4, 12
 Childbirth [1] 219:4
 childbirth [11] 219:11, 16, 19,
 22; 221:6, 21; 222:10; 223:10;
 225:13; 226:9, 14

Children [1] 222:4
 children [12] 13:16; 153:21;
 154:3; 156:5; 220:2; 225:18,
 19; 226:3; 231:2; 315:21;
 329:21; 330:3
 choice [2] 196:4; 250:12
 choices [1] 83:1
 cholesterol [1] 84:22
 CHONG [6] 8:1; 106:14;
 175:8; 192:9; 193:2; 316:21
 Chong [5] 8:1; 106:14; 175:6,
 8; 189:15
 choose [4] 75:4; 83:18;
 306:13; 315:10
 chooses [1] 307:3
 choosing [1] 243:14
 chose [3] 78:4; 241:18, 22
 chosen [1] 19:17
 CHRISTIAN [1] 239:7
 Christian [1] 239:6
 Cipro [1] 205:6
 circuitry [3] 223:19; 224:7, 14
 circumstance [1] 117:10
 circumstances [6] 117:3;
 137:17; 144:8; 258:4, 15;
 260:18
 cite [1] 298:17
 clarification [5] 171:8, 10;
 296:7; 300:22; 322:12
 clarify [3] 283:11; 297:2;
 348:17
 clarity [1] 273:14
 Class [1] 70:2
 class [25] 61:8; 69:20; 139:2;
 250:11; 330:19; 331:6, 7, 14;
 332:1, 4, 6, 7, 13, 17, 21;
 333:12, 18; 334:5, 10, 17;
 335:2, 22; 336:15, 19
 classes [2] 335:1, 11
 classic [1] 332:9
 classification [2] 180:2, 4
 classify [1] 338:2
 clean [1] 30:12
 clear [24] 42:6, 17; 43:11, 22;
 125:6; 129:5; 130:4; 133:22;
 140:21; 179:14; 180:13;
 201:15; 261:1; 270:12; 282:16;
 283:8; 289:6; 295:14, 20;
 296:3; 299:17; 309:3; 330:13;
 335:15
 clear-cut [2] 74:22; 179:6
 cleft [3] 198:19; 232:19, 20
 clefts [3] 197:3, 5, 9
 clients [1] 311:7
 clinic [5] 64:3; 124:14;
 308:15; 324:9; 327:22
 Clinical [3] 62:6; 161:21;
 222:3
 clinically [5] 126:22; 133:10;
 174:8; 240:2, 8
 clinician [22] 15:9; 125:10;
 126:1; 145:14; 146:17; 149:9;
 158:7; 171:17; 196:3; 203:4,
 18; 212:2; 213:8; 216:13;
 229:22; 284:3; 298:11; 299:7;
 317:20; 338:3; 339:6; 340:2
 clinicians [15] 34:20; 37:21;
 126:6, 20; 128:15; 133:19;
 142:5; 148:1; 188:20; 197:5;
 288:1; 315:1; 319:9; 322:16;
 347:14

clock [1] 220:15
 clomiphene [1] 229:15
 CNS [2] 241:2; 242:2
 Co-Chair [1] 7:17
 co-chaired [1] 16:8
 codify [1] 59:6
 cognitive [2] 68:18; 105:5
 cohort [2] 119:10; 198:16
 cohorts [1] 122:1
 collaboration [1] 146:16
 Collaborative [1] 228:3
 collaborative [1] 228:9
 colleagues [5] 12:22; 163:10; 226:17; 320:20; 323:21
 collect [4] 49:10, 12; 194:18; 264:15
 collected [1] 50:3
 collection [4] 45:12; 48:6; 194:20; 264:9
 College [1] 91:20
 college [2] 57:17; 90:22
 colon [1] 101:18
 column [1] 82:2
 columns [1] 63:11
 combination [3] 32:4; 94:4; 271:2
 combinations [1] 271:5
 combine [3] 72:6; 89:2; 170:4
 combined [2] 72:2; 271:1
 combining [1] 254:12
 comers [1] 40:7
 comfort [2] 32:11; 333:17
 comfortable [3] 179:8; 182:8; 325:15
 coming [11] 4:4; 20:1; 96:14; 108:11, 18; 134:11, 12; 180:3; 226:11; 284:15; 349:9
 comment [43] 5:17; 37:12; 42:21; 102:5; 103:14; 108:13; 113:18, 20, 22; 120:21; 121:22; 123:5; 127:4; 129:21; 139:9; 141:10; 143:15; 150:11; 151:8; 152:3; 153:16; 154:6; 157:8; 158:19; 160:1; 171:18; 172:17; 176:6; 177:7; 188:18; 209:5; 237:20; 268:7; 275:15; 278:1, 2; 295:2; 296:9; 308:9; 318:22; 323:8, 12; 340:20
 comments [35] 20:1; 37:10; 38:5; 44:2; 51:11; 103:15; 152:20; 154:19; 179:22; 207:5; 209:14; 216:17; 229:9; 230:8, 13; 237:16; 243:4; 245:10, 11; 266:12; 277:7; 278:3; 279:20; 280:15; 286:4; 291:8; 292:21; 300:21; 311:16; 312:21; 335:15; 340:19; 342:9; 347:2, 22
 commercial [3] 26:8, 19; 292:14
 Committee [14] 10:18; 11:6; 54:5, 19; 56:2, 6, 8, 10; 111:19; 227:17; 229:4, 7, 12; 245:21
 committee [40] 4:6, 7, 19, 20; 5:19, 20; 6:11; 10:19, 21; 21:11; 55:5, 12; 58:2; 69:12; 71:5; 78:12; 89:10; 107:3; 110:13; 129:14; 156:22; 159:1; 170:2; 176:14, 18; 194:18;

195:5; 209:3; 212:9; 217:4; 218:20; 227:12; 238:1; 240:5; 242:19; 247:5; 275:15; 278:12; 307:20; 340:13
 committees [1] 24:11
 common [6] 65:3; 80:8; 86:16; 93:2; 128:14; 310:16
 commonly [8] 57:6; 79:13; 128:16; 186:22; 187:11; 224:1, 2; 298:17
 communicate [16] 12:9, 19; 14:19; 15:11; 16:4; 17:21; 23:19; 51:17; 78:13; 80:1; 132:11; 199:4; 213:17; 279:14; 316:8; 328:5
 communicated [5] 18:1; 78:11; 201:4; 279:18; 340:18
 communicates [2] 93:7; 199:8
 communicating [8] 12:21, 22; 16:17; 80:2; 235:21; 243:1; 280:22
 communication [14] 12:12; 14:18; 23:18; 42:8; 45:12; 58:8; 70:22; 92:12, 15; 94:9; 119:1; 279:12; 323:19; 328:3
 Communications [1] 161:2
 Communicative [1] 224:13
 communities [1] 292:4
 Community [1] 270:7
 community [15] 12:3, 21; 14:9; 15:13; 16:21; 17:3, 4; 73:20; 79:12; 174:11; 210:14; 212:14, 16; 245:4; 289:5
 companies [21] 33:19, 22; 48:16; 49:9, 20; 128:8; 131:8; 144:10; 146:11; 156:4; 185:2, 7; 186:4; 187:9; 188:22; 190:5; 195:6; 201:11; 207:19; 239:13; 290:18
 company [9] 25:7; 26:8, 9; 46:20; 127:17; 146:18; 157:2; 188:12; 207:20
 comparative [2] 67:2; 196:10
 comparatively [1] 240:16
 compare [2] 83:4; 240:1
 compared [10] 41:8; 104:3; 164:3; 298:13; 306:12, 15; 316:11, 16; 339:2, 3
 comparing [2] 253:3; 316:13
 comparison [6] 217:10; 250:10; 284:9; 316:17; 325:17; 327:10
 competence [1] 312:8
 competency [1] 297:13
 competent [4] 247:8, 18; 291:13; 341:13
 complete [6] 10:8; 208:20; 261:8; 266:9; 276:10; 305:21
 completed [1] 283:19
 completely [4] 135:15; 141:7; 143:19; 326:7
 completing [1] 276:1
 complex [18] 20:12; 29:14; 33:9; 34:6; 38:1, 19; 45:8; 59:19; 72:6; 92:13; 106:3, 21; 107:4; 128:12; 177:12; 196:19; 280:22; 288:10
 complexities [1] 94:8
 complexity [2] 101:4; 106:15

complicated [3] 176:22; 177:1; 233:9
 compliment [1] 237:13
 compliments [1] 270:17
 comply [1] 113:4
 component [1] 334:1
 components [4] 12:12; 64:21; 78:9; 105:2
 composing [1] 146:7
 composite [1] 262:1
 compound [3] 61:10; 285:2; 336:18
 compounds [9] 64:8, 9; 199:15, 18; 200:8, 19; 332:22; 336:2, 18
 comprehension [1] 225:22
 comprehensive [10] 43:22; 47:1; 48:8; 50:13; 131:16; 139:16, 21; 142:11; 154:10, 13
 Compression [1] 88:14
 compression [2] 86:20; 96:18
 compulsion [1] 271:8
 computer [1] 10:4
 con [1] 113:20
 concept [10] 39:1; 51:4; 71:22; 129:16; 209:3, 12; 212:7; 214:17; 268:12; 292:18
 conception [1] 70:9
 concepts [1] 42:8
 conceptualization [1] 67:3
 concern [33] 38:17; 39:5; 40:8; 63:14; 64:5; 70:10; 139:1, 4; 150:19, 20; 151:1, 2, 4, 18; 153:11, 22; 154:9; 159:19; 161:8; 168:17; 176:21; 200:13; 225:15; 226:16; 301:22; 308:8, 9; 318:5, 14; 333:13; 344:2
 concerned [20] 16:22; 17:2; 78:1; 151:3, 18; 153:17; 171:18; 203:9; 208:2; 222:11; 230:1; 231:6; 243:16; 245:5; 280:11; 282:12, 13, 22; 288:11; 308:10
 Concerning [4] 252:13; 253:6; 255:20; 256:8
 concerning [10] 246:1, 14; 249:6, 11; 250:7; 254:2, 21; 255:5, 17; 260:14
 concerns [9] 41:11; 44:15; 153:1; 155:7; 204:15; 234:20; 235:19; 287:22; 335:3
 concerted [1] 185:11
 concise [3] 93:9; 133:12; 138:5
 conclude [1] 283:1
 concluded [2] 219:7; 226:22
 concluding [1] 251:8
 conclusion [7] 155:3; 164:14; 202:11, 12; 226:2; 316:19; 334:17
 conclusions [6] 150:13; 202:6; 251:10; 255:6; 284:12; 305:9
 conclusive [1] 151:7
 concomitant [1] 33:10
 concordance [2] 63:17, 20
 concurrent [1] 122:2
 condense [1] 37:15
 condition [22] 30:8; 40:3, 10; 118:1; 124:7; 212:1, 3, 18, 20;

213:3; 215:17, 21; 217:2; 226:21; 243:20; 304:6; 308:17; 309:5; 320:8; 337:12, 14; 340:7
 conditions [9] 27:10; 118:19; 124:13; 221:9, 15; 248:1; 251:3; 256:11; 324:4
 conduct [4] 9:2; 25:14; 62:19; 68:4
 conducted [15] 57:8; 121:10; 123:1, 9; 161:4, 17; 186:16; 250:21; 251:1, 17; 252:2, 6; 259:16; 262:7; 327:20
 Conference [2] 48:9; 161:22
 conference [3] 162:1; 349:9, 10
 confess [1] 322:4
 confidence [5] 46:14; 115:4; 128:18; 313:5; 316:11
 confident [1] 278:14
 confidently [1] 337:7
 conflict [2] 4:12, 14
 conflicting [1] 303:3
 confound [2] 203:5; 297:22
 confounding [1] 300:10
 confronting [1] 92:4
 confused [3] 114:5; 235:2; 263:6
 confusion [2] 21:13; 216:7
 Cong [1] 192:9
 congenital [4] 94:21; 325:3; 329:21; 330:3
 congratulate [3] 239:9; 242:18; 288:3
 congratulated [1] 238:10
 Congress [2] 23:19; 228:2
 Congressional [3] 113:9, 12; 114:6
 conjunction [1] 195:5
 connotation [2] 151:2; 342:12
 connotations [1] 279:22
 CONOVER [15] 6:16; 100:6, 11; 160:2; 191:6; 305:13; 311:3; 320:7; 321:11; 335:9; 340:4; 341:16; 343:2; 344:13; 345:4
 Conover [3] 6:16; 100:6; 160:2
 conscious [2] 176:7
 Consensus [1] 52:17
 consensus [11] 52:18, 22; 199:14; 213:22; 234:5; 254:1; 262:4; 274:20, 22; 280:19; 321:2
 consent [8] 15:18; 79:7, 18; 98:7; 99:6, 8; 105:22; 108:14
 consequences [1] 89:18
 consider [24] 26:6; 35:18; 40:5; 78:16; 106:5; 157:5; 165:18, 21; 193:22; 195:9; 211:19; 242:7, 10; 262:5; 272:18; 286:17; 300:3; 301:19; 303:22; 304:9, 13; 323:15; 327:7, 9
 consideration [3] 140:6; 241:6; 347:18
 Considerations [1] 222:3
 considerations [15] 29:8; 39:20; 40:16; 51:12; 57:5; 61:16; 62:11; 283:6; 321:7, 12; 322:8, 15, 18; 323:1; 338:21

considered [14] 155:13;
178:8; 201:4; 250:14, 15, 16;
253:7, 15; 258:10, 11; 269:22;
271:11; 309:11; 320:11
considering [13] 137:5;
165:12, 20; 194:7; 211:2;
212:17; 217:14; 249:16, 19;
252:3; 253:14; 264:9; 301:18
consist [1] 76:10
consistency [5] 56:20; 59:1;
64:21; 151:14; 292:13
consistent [3] 239:14;
247:19; 308:22
consistently [4] 151:11;
227:22; 240:11; 304:11
constituency [1] 64:15
constraints [1] 218:3
consult [4] 93:21; 177:18;
180:21; 181:3
consultant [1] 243:10
consultation [3] 8:3; 56:12;
301:5
consultative [1] 93:19
consulted [1] 306:4
consumer [8] 37:1; 207:13;
212:13; 245:1; 287:20; 288:5;
291:3; 317:20
consumers [7] 36:22; 210:3,
4; 214:3; 288:2; 301:1; 304:12
contact [1] 188:22
contains [2] 25:9; 26:16
content [10] 12:15; 13:4;
51:12; 54:11; 55:10, 19; 56:13;
183:10; 278:22; 279:2
contentious [1] 123:19
context [17] 18:4; 40:6; 46:9;
98:22; 99:2; 104:17; 124:16;
130:2; 138:13; 143:5; 203:9;
217:1; 279:5; 284:14; 312:19;
323:13; 338:21
contextual [1] 321:8
continue [7] 137:7, 18;
148:22; 201:15; 225:18; 256:7;
314:14
continued [4] 13:11; 137:8;
165:14; 208:19
continuing [1] 198:6
continuous [1] 69:3
continuously [1] 318:8
continuum [4] 76:14; 157:12;
192:12, 14
contraception [6] 217:6, 8,
10; 257:17; 263:2, 18
contraceptives [2] 229:15;
265:7
contraindicate [3] 267:19;
268:3; 272:14
contraindicated [10] 246:19;
255:1; 257:3, 15; 258:2; 261:4;
267:13; 272:6, 9; 285:4
contraindication [3] 27:21;
257:19; 267:20
contraindications [3] 254:22;
256:11; 257:20
Contrary [1] 25:13
contrary [1] 27:16
contribute [1] 225:16
control [4] 89:18; 122:2, 5, 22
controlled [10] 29:22; 76:9,
16; 220:1, 20; 221:7, 19;
227:8; 286:20; 299:4

controlling [1] 73:10
controls [1] 227:22
controversies [1] 303:10
controversy [2] 229:16;
302:22
convene [1] 24:11
conventional [1] 59:13
conversation [3] 107:1;
213:8; 216:12
convert [2] 83:21; 85:12
converting [1] 336:7
conveyed [1] 115:6
conveys [1] 313:3
copies [2] 21:1; 209:16
copious [1] 347:8
copy [2] 5:4; 49:6
copyright [1] 348:16
Corby [1] 223:12
core [3] 57:12; 151:10; 180:1
corner [1] 102:1
corollaries [1] 27:7
corrected [1] 226:21
correctly [1] 83:22
correlates [1] 204:3
correspond [1] 257:8
corticosteroids [1] 197:10
cost [3] 152:14; 155:8; 176:3
couches [1] 108:13
cough [1] 200:10
Council [1] 85:20
counsel [2] 34:3; 318:10
counseling [9] 87:18; 97:16;
100:14; 101:11; 125:14;
230:11; 234:10; 311:4, 5
counselor [3] 6:17; 100:7;
343:1
counselors [3] 100:7; 235:1;
311:7
count [1] 30:3
countries [8] 17:10; 225:20;
246:9, 15, 18; 262:12, 17;
285:2
country [11] 15:20; 17:10, 16;
18:17; 79:8, 14; 144:7; 189:11;
246:11, 14, 16
couple [16] 24:5; 46:18; 53:5;
73:18; 98:5; 132:3; 138:11;
156:14; 164:1, 11; 181:10;
196:5; 278:21; 322:7; 328:21;
333:4
course [18] 57:13; 64:7; 67:7;
158:2; 203:22; 236:15; 246:8;
250:1; 254:14; 256:15; 265:16;
267:3; 268:1; 269:21; 294:20;
311:13; 320:11; 343:5
courses [1] 57:17
courts [1] 79:18
cover [3] 20:18; 78:15; 86:19
cowardly [1] 302:19
CPMP [6] 245:21; 246:2;
261:10, 15; 262:16, 17
craft [1] 210:2
CRAGEN [3] 7:11; 157:8, 21
Cragen [3] 7:11; 49:16; 157:6
crazy [1] 25:5
create [1] 219:15
created [1] 272:13
creates [2] 120:6; 180:14
creating [1] 314:19
creatively [1] 188:19
credibility [2] 41:18; 120:6

credible [1] 159:18
cringe [1] 342:10
criteria [5] 29:20; 30:10;
31:15; 48:8; 251:6
critical [9] 51:20; 52:10;
92:21; 126:3, 18; 185:5; 202:9;
244:22; 337:19
criticism [7] 34:15; 38:6, 8;
172:18; 237:12; 260:15, 18
criticisms [3] 37:7; 38:6;
42:14
criticize [1] 260:3
criticized [1] 260:4
cross-checking [1] 147:6
cross-marks [1] 33:19
cross-referenced [1] 140:19
cross-study [1] 122:21
crosses [2] 343:3, 6
crossing [1] 339:10
crystallized [1] 238:17
cues [1] 20:21
culpa [1] 329:10
cultural [2] 101:1; 215:3
culture [1] 96:14
curbside [1] 43:14
Current [1] 66:2
current [32] 5:16; 21:16;
23:20; 24:3; 35:13, 20; 36:4;
42:4, 19; 54:4; 55:16; 57:19,
20; 58:18; 66:6; 123:17;
130:5; 136:20; 156:2, 8, 16;
162:10, 16; 163:6; 164:6;
167:2; 191:16; 219:5; 277:3;
280:19; 308:12; 346:9
currently [9] 30:16; 51:6;
56:11, 22; 57:8; 70:21; 162:19;
187:16; 219:21
curricula [1] 57:14
curriculum [1] 57:12
cursory [1] 130:16
cut [7] 125:13; 134:18; 140:1,
3; 157:1; 193:15
Cynthia [4] 8:1; 106:14;
207:8, 9

- D -

damage [1] 222:20
dangerous [2] 71:18; 177:2
dangers [1] 93:8
Data [1] 311:19
database [1] 51:5
databases [4] 67:1; 122:1, 4,
11
dataset [1] 331:17
date [5] 51:2; 112:19; 187:3;
192:2; 338:14
DATTEL [13] 6:19; 143:14;
144:12, 20; 145:10; 149:2;
150:3; 173:20; 174:1; 183:2, 6;
189:13; 318:22
Dattel [6] 6:19; 143:14; 148:9;
174:1; 183:6; 189:14
daughters [1] 208:8
daunting [4] 191:16; 192:4;
199:13; 307:15
Dave [5] 47:22; 86:2; 120:20;
121:8, 14
David [2] 53:22; 124:10
day [13] 11:10; 35:22; 46:12;
74:9; 149:20; 234:22; 278:1;

281:8, 20; 317:12; 318:11
days [5] 108:11; 113:19;
218:20; 219:2; 220:7
DDT [1] 90:11
deal [23] 19:4; 24:1; 38:17;
77:18; 93:15; 110:15; 114:19;
120:8; 124:17; 150:15; 152:20;
158:18; 248:2; 249:14; 254:16;
255:21; 265:15, 20; 272:1;
334:3; 339:8; 342:18; 348:9
dealing [15] 21:12; 55:18;
57:20; 58:20; 61:2; 65:2; 67:7;
102:16; 108:19; 159:8; 238:3;
239:4; 248:9; 333:21; 341:8
deals [9] 11:7; 18:15; 116:21;
171:14; 191:7; 248:16; 254:19;
255:19; 289:7
dealt [4] 114:22; 266:2, 7;
315:10
dear [3] 11:8; 18:21; 47:13
dearth [1] 14:21
death [5] 80:21; 115:22;
116:1; 295:5; 326:17
deaths [1] 241:19
debate [3] 174:10; 265:21;
267:1
debated [1] 267:1
decade [1] 101:15
decades [1] 34:16
deceptive [1] 152:13
deceptively [1] 38:9
decide [5] 79:4; 80:6; 99:10;
112:8; 276:3
decided [3] 36:5; 261:7;
278:3
Deciding [1] 40:18
deciding [2] 40:19; 228:19
decision [29] 15:4; 29:6;
80:13, 18; 83:13; 84:3, 20;
86:7; 87:6; 92:1; 102:10, 11,
13, 17; 103:5; 105:3; 110:11;
113:22; 208:15; 211:12, 21;
212:15; 213:5, 14, 15; 301:14;
302:6; 339:21; 340:5
decisions [8] 15:17, 18;
25:15; 29:2; 181:15; 260:14;
289:21; 291:14
decline [1] 223:3
decrease [2] 70:10; 108:16
decreased [1] 117:22
deduction [1] 225:22
defect [4] 105:14; 198:20;
257:17; 290:12
defection [1] 232:20
Defects [1] 7:13
defects [21] 46:20; 104:1;
196:19, 20; 197:1, 19; 198:11,
17, 18; 199:2; 231:18; 236:19;
252:5, 18; 257:14; 303:21;
304:15; 306:11; 307:10;
313:16; 315:7
defend [1] 175:16
Defense [1] 8:16
deficit [1] 241:2
define [6] 34:7; 59:12; 137:14,
15, 16; 311:13
defined [8] 30:16; 34:8; 63:1;
178:20; 247:3, 5
defines [1] 71:18
defining [1] 57:12
definitely [3] 159:11; 177:18;

194:5
 definition [3] 72:2; 294:19;
 310:15
 definitions [3] 22:12; 309:19;
 346:12
 definitive [2] 308:17; 310:17
 defy [1] 152:9
 DeGEORGE [14] 7:19;
 120:21; 158:22; 172:13;
 200:20; 202:3; 203:21; 273:2,
 18; 297:5; 300:1; 322:11;
 330:21; 334:14
 DeGeorge [7] 7:19; 44:22;
 66:3; 120:19; 121:1; 172:13;
 200:21
 degree [7] 70:4; 71:20; 93:8,
 12; 108:20; 110:1; 327:21
 degrees [4] 41:20; 76:3, 4;
 341:15
 delayed [7] 75:18; 90:6;
 242:1; 344:14; 345:5; 346:2, 3
 delete [1] 344:21
 deleted [1] 343:12
 deliberate [1] 227:18
 deliberation [1] 276:1
 delightful [1] 10:14
 delineate [1] 226:12
 deliveries [1] 195:1
 delivery [6] 75:20; 104:10;
 243:22; 296:2, 4, 6
 DeLorier [1] 220:18
 demonstrable [1] 117:4
 demonstrate [5] 30:1; 60:7, 9;
 123:14; 254:8
 demonstrated [5] 61:11;
 64:15; 117:21; 155:9; 252:5
 demonstrates [1] 137:11
 demonstration [1] 117:10
 demoralizing [1] 42:3
 dendritic [2] 223:21; 224:9
 dental [1] 183:21
 dentist [1] 183:19
 Department [3] 8:15; 9:13;
 245:20
 department [1] 8:4
 depend [1] 171:6
 Dependency [1] 238:1
 dependent [1] 340:6
 depending [7] 84:22; 144:7;
 146:13; 194:2; 250:20; 256:22;
 258:1
 depends [7] 154:21; 158:18;
 170:13; 276:5; 277:7; 320:21;
 337:6
 depicted [1] 256:20
 deployed [1] 276:3
 deposition [1] 238:8
 deprivation [1] 222:20
 Deprocote [1] 306:10
 Deputy [3] 10:11; 184:18;
 245:19
 derive [1] 322:10
 derived [2] 76:7; 310:5
 dermatologic [1] 337:11
 DES [1] 210:22
 describe [6] 121:19; 135:19;
 312:11; 313:22; 315:11
 described [4] 41:12; 62:4, 8;
 129:20
 describing [4] 145:7; 201:16;
 279:7; 280:1

description [3] 139:19;
 307:19; 312:17
 descriptions [4] 39:12; 42:20;
 299:1; 312:7
 descriptive [1] 279:21
 descriptors [1] 307:2
 Desesso [1] 40:17
 design [5] 56:13; 57:5; 65:12;
 68:4; 336:10
 designations [1] 111:18
 designed [2] 162:10, 12
 designs [2] 121:12; 122:18
 desire [4] 14:10; 35:1; 164:15;
 167:3
 desk [1] 281:2
 desperately [2] 19:9; 194:13
 despite [2] 167:22; 272:6
 detail [11] 44:3; 134:21;
 138:6; 139:22; 148:12; 178:10;
 274:9; 276:20; 285:10; 323:19;
 334:21
 detailed [9] 142:11; 171:18;
 255:16; 260:11, 19; 277:4;
 279:4; 320:16; 348:4
 details [5] 116:2; 164:8;
 250:6; 285:8; 293:4
 detect [1] 122:17
 detected [2] 59:21; 226:19
 detection [2] 153:3; 316:18
 determination [2] 92:12;
 145:14
 determine [3] 69:2; 223:20;
 227:13
 determined [2] 4:19; 289:3
 determining [1] 74:17
 develop [10] 57:1; 58:4;
 112:12; 131:7; 141:13; 142:1;
 237:11; 245:8; 274:20; 347:20
 developed [10] 15:6; 59:12;
 118:16; 129:20; 130:3; 146:2,
 4; 185:13; 316:7
 developing [7] 54:21; 57:13;
 223:19, 22; 224:7, 22; 287:6
 Development [2] 68:14;
 237:20
 development [16] 25:4;
 50:11; 51:3; 68:13, 18; 186:4;
 192:19; 220:2; 225:7; 240:19;
 242:1, 2; 296:19; 308:21;
 309:2; 336:17
 developmental [24] 56:15;
 58:14; 59:2, 18, 22; 63:5, 6;
 68:18; 68:9; 124:17, 22;
 153:22; 249:8; 251:12, 19, 20;
 295:12; 296:10; 297:3, 7;
 299:19; 300:7, 8; 336:3
 developmentally [1] 193:5
 deviant [1] 225:17
 device [1] 207:19
 Devices [1] 261:14
 devil [2] 116:2; 167:19
 diabetes [1] 40:4
 diagrammatic [1] 63:12
 dialogue [3] 24:14; 45:12;
 288:14
 dictionary [1] 71:18
 die [2] 108:10; 241:1
 Diego [2] 9:14; 125:10
 diethylstilbestrol [1] 208:5
 differ [5] 77:12; 92:16;
 172:22; 285:1; 305:12

difference [13] 26:4; 28:16;
 145:21; 148:19, 21; 149:13,
 14, 16; 231:5; 232:16; 276:19;
 313:13; 325:19
 differences [14] 14:2, 4;
 125:5; 143:22; 147:16, 20;
 149:4, 10; 198:7; 268:15, 22;
 269:1
 differently [8] 43:3; 100:15,
 16; 193:19; 268:13; 272:4;
 317:8
 difficult [33] 34:8, 10, 22;
 45:1; 46:8; 51:16; 52:16;
 72:12; 81:6; 95:19; 97:12;
 105:7; 147:11; 187:5; 236:7;
 239:7; 240:4, 9; 242:22; 260:6;
 264:15; 265:16; 266:15;
 268:20; 274:11; 286:22;
 288:18; 289:21; 310:9; 314:7;
 321:17; 336:10; 348:5
 difficulties [2] 71:8; 109:10
 difficulty [6] 82:19; 95:1;
 154:17; 156:1; 185:21; 246:19
 dig [1] 284:5
 digest [1] 99:10
 digested [1] 169:12
 digits [1] 325:5
 dilantin [2] 173:17; 233:14
 dilemma [1] 199:4
 dilemmas [1] 198:6
 direct [5] 7:4; 300:1, 3;
 311:17; 345:12
 directed [5] 21:20; 51:22;
 165:9, 16; 301:1
 directing [1] 183:11
 direction [4] 51:10; 237:10;
 276:7; 333:16
 directions [1] 20:16
 directive [11] 145:22; 166:4,
 14; 172:9; 183:10, 17; 184:3,
 5, 7; 185:18; 268:13
 directiveness [2] 165:8;
 322:22
 directives [1] 226:11
 Director [12] 7:15, 20; 8:2;
 10:12, 22; 18:13; 68:3; 184:19;
 207:10; 224:12; 243:6; 245:19
 directors [1] 176:15
 disability [1] 225:17
 disadvantage [1] 341:2
 disadvantages [1] 138:17
 disagree [3] 147:13; 148:9;
 303:1
 disagreeing [3] 183:3, 8
 disaster [1] 228:10
 discharges [1] 244:3
 disclaimer [2] 305:17, 19
 disclosure [2] 207:14, 17
 discoloration [1] 77:15
 discomfort [1] 321:4
 discontinue [1] 346:22
 discontinuing [1] 165:18
 discount [1] 125:14
 discounted [2] 126:7, 8
 discovered [1] 241:21
 discriminate [1] 41:6
 discriminated [1] 239:2
 discuss [9] 24:13; 71:9, 12;
 78:7, 18; 134:20; 228:18;
 274:7; 310:6
 discussed [18] 4:20; 74:2, 3;

78:10; 79:11, 12; 130:4;
 158:10, 11; 176:14; 229:10;
 249:19; 250:20; 262:11;
 269:16; 312:21; 331:4; 337:10
 discussing [3] 69:14; 77:15;
 229:14
 Discussion [1] 311:19
 discussions [6] 5:8; 48:13;
 166:17; 175:19; 283:21; 339:8
 disease [8] 18:18; 46:2;
 178:13, 15, 17; 203:11; 236:2;
 319:22
 diseases [1] 232:22
 disliked [1] 166:4
 disorder [5] 105:6; 180:12;
 182:12; 202:22; 203:5
 Disorders [1] 224:13
 disparate [1] 56:18
 disparities [1] 53:2
 disparity [1] 275:1
 disposition [2] 60:20; 63:18
 disregarded [1] 252:10
 disrupt [2] 223:11, 21
 dissemination [1] 57:14
 disservice [1] 304:3
 dissimilar [1] 130:8
 distill [1] 324:2
 distilled [1] 308:8
 distinct [1] 72:1
 distinction [6] 43:11, 12;
 253:18; 298:8; 329:8, 12
 distinctly [1] 222:7
 distinguish [4] 43:9, 20;
 134:13; 330:13
 distribution [3] 89:19; 173:14;
 202:8
 disturbing [1] 221:3
 diverse [1] 134:17
 divide [1] 135:20
 dividing [1] 167:9
 Division [3] 7:12; 53:22;
 161:1
 division [2] 146:18; 176:15
 divisions [5] 18:15; 45:22;
 56:13; 65:1; 141:5
 doc [1] 98:15
 docs [1] 46:2
 Doctor [1] 183:5
 doctor [3] 7:8; 74:16; 218:22
 doctors [3] 45:17, 18; 81:19
 document [15] 23:17; 24:4;
 26:10; 47:4, 17; 49:5; 50:7;
 115:9; 186:18; 247:4; 270:12;
 273:15; 276:18; 302:16
 documented [2] 118:7;
 180:17
 documents [4] 23:15, 18;
 49:6; 314:8
 Doesn't [1] 93:10
 doesn't [24] 27:8; 39:10;
 40:14; 41:6; 86:12; 97:7;
 128:5; 130:13; 131:17; 145:20;
 148:8; 190:13; 198:18; 213:1,
 12, 20; 234:12, 19; 281:8;
 287:12; 305:3; 320:15; 343:9
 dogs [1] 205:7
 Donald [1] 224:11
 Dorden [1] 332:11
 Doris [2] 218:18; 229:3
 dosage [3] 163:21; 174:8, 14
 dosages [2] 232:2, 8

dose [16] 115:20; 116:5, 10; 117:13; 123:13; 159:19; 164:2; 180:13; 191:12; 231:19; 239:20, 22; 324:5; 325:22
 doses [5] 116:20; 117:14; 221:9; 251:20; 253:1
 dosing [4] 39:9; 154:8; 171:14; 187:2
 dossier [1] 247:10
 downstairs [1] 206:7
 draft [7] 44:12; 50:6; 212:7; 214:17; 218:8; 254:18; 255:4
 drafted [4] 246:5; 248:5; 261:9; 262:15
 drafting [7] 48:6; 246:5; 252:11; 261:16; 262:9, 18; 267:2
 drafts [1] 17:20
 draw [4] 202:12; 283:6; 284:12; 316:19
 drawer [1] 50:2
 drawing [1] 201:12
 drawn [1] 59:14
 dread [8] 89:16, 21; 90:2; 91:5, 12; 92:8; 93:17; 109:3
 drill [1] 285:11
 drive [1] 49:2
 driven [1] 249:9
 driving [2] 89:13; 103:4
 drop [1] 222:16
 dropped [1] 180:18
 drove [1] 92:1
 drownings [1] 91:22
 Drug [17] 7:15, 21; 8:19; 10:12; 18:14; 54:1; 56:3; 161:1, 2; 190:22; 224:4; 227:17; 229:4, 12; 238:18; 329:22; 330:4
 Drugs [8] 8:10; 26:1; 35:10; 54:6; 90:1; 222:3; 223:4; 261:14
 drum [1] 174:19
 Ds [1] 31:19
 due [5] 202:21; 240:20; 264:22; 295:17
 duration [1] 253:2
 duty [1] 275:7
 dying [1] 103:6
 dynamic [1] 110:20
 dysfunction [2] 105:5; 226:4
 dysmorphogenesis [4] 63:7, 9; 295:7; 346:12
 dysmorphology [1] 326:16

- E -

early [16] 17:19; 20:9; 31:12; 79:9; 137:5, 15; 145:8; 153:3; 165:11; 192:15; 205:6; 208:10; 225:5; 244:2; 261:16; 297:14
 easier [4] 133:15; 138:3; 189:1; 306:6
 easily [3] 205:11; 247:20; 316:19
 Eastern [3] 6:20; 143:14; 174:1
 easy [12] 20:8; 44:20; 129:7; 135:13; 136:5, 6; 152:8; 163:9; 185:15; 214:8; 282:17; 313:20
 echo [1] 19:22
 eclipsed [1] 327:15

economics [1] 149:1
 ectrodactyly [1] 325:4
 Ed [1] 66:4
 edited [2] 146:14
 educate [1] 220:15
 educated [1] 335:11
 educating [1] 46:13
 Education [4] 55:13; 56:5; 57:10; 219:4
 education [3] 57:12, 18; 225:21
 educational [1] 348:19
 effect [37] 14:12; 64:9; 80:4, 11; 86:6; 104:2; 116:4, 19; 117:21; 145:6; 152:11; 153:9, 18; 155:5; 180:14; 204:2; 215:19; 217:14; 223:7, 13, 14; 232:4, 12; 233:3; 250:22; 252:6; 258:2; 259:17; 261:3; 267:11; 269:7; 295:10; 327:6; 332:16; 333:22; 337:20
 effective [7] 58:5, 7; 67:22; 68:1; 99:9; 257:16; 278:10
 effectively [7] 58:13; 78:13; 93:7; 106:11; 155:7; 247:16; 306:16
 effectiveness [2] 217:8, 10
 effects [45] 30:13; 41:7, 8; 54:18; 61:10; 75:18, 19; 90:13; 165:19; 166:5; 191:11; 215:7; 217:9; 226:18; 227:13; 232:8, 19; 240:17, 19, 20, 21; 248:4; 249:11; 250:18; 251:20; 253:10; 257:21; 258:19; 259:2, 8, 13; 262:21; 265:11; 267:22; 297:9; 298:13; 300:3, 4, 13; 326:1; 332:1, 8; 333:18
 efficacious [2] 83:20; 190:9
 efficacy [6] 25:10, 19; 149:4; 152:7; 174:6; 238:4
 effort [7] 54:11; 65:20; 124:12; 185:12; 220:9; 227:2; 237:14
 efforts [3] 209:20; 238:11, 12
 eight [3] 37:5; 84:18; 257:11
 eight-year-old [1] 317:2
 Einstein [3] 106:15; 175:8; 192:9
 elderly [2] 13:18, 19
 elective [1] 74:9
 electronic [1] 106:17
 element [4] 71:19; 72:21; 74:19; 75:10
 elements [4] 13:15; 20:19; 72:15; 78:6
 elephant [1] 110:5
 elevating [1] 230:8
 Eleven [1] 162:3
 eliminate [1] 241:18
 eliminating [1] 230:3
 Elizabeth [2] 8:21; 49:15
 Ellen [1] 68:7
 elsewhere [1] 313:9
 elucidated [1] 328:11
 embark [1] 44:18
 embarked [1] 46:22
 embarrass [1] 47:21
 embedded [1] 306:14
 embodies [1] 71:22

embryo [3] 240:22; 241:19; 326:17
 embryo-fetal [1] 295:5
 emergency [1] 21:6
 emerging [1] 180:17
 emotional [2] 44:4; 342:12
 emphasis [1] 70:4
 emphasize [3] 212:4; 239:17; 327:19
 encephaloceles [1] 232:21
 encompass [2] 178:7; 321:20
 encounter [1] 73:15
 encountering [1] 348:6
 encourage [8] 130:10, 14; 184:15; 185:7; 228:17; 268:18; 290:17; 342:6
 encouraged [2] 103:19; 303:12
 encourages [1] 130:16
 encouraging [2] 130:18; 225:8
 end [18] 11:10; 17:17; 46:9; 48:5; 65:10; 66:8; 70:11; 102:6; 108:11; 117:12; 127:4; 134:5; 142:16; 195:18; 277:17, 19; 293:2; 331:1
 end-all [1] 65:16
 endeavor [2] 103:18; 131:5
 endeavors [1] 20:7
 endless [1] 283:20
 endocrinologist [2] 9:4; 162:4
 endpoint [3] 64:2; 65:13; 297:10
 endpoints [17] 39:8; 58:21; 59:20; 60:5; 62:13, 16, 17; 63:2, 3; 68:13; 123:11; 241:8; 242:8; 273:10; 323:14; 327:18, 20
 ends [3] 38:5; 87:22; 181:14
 England [1] 80:15
 English [2] 269:14, 15
 enhance [1] 59:1
 enhancement [2] 295:9; 296:15
 enigma [2] 286:14; 323:8
 Enlightened [1] 304:12
 enormous [1] 131:6
 ensue [1] 95:20
 ensure [7] 25:3, 18; 26:17; 130:14; 192:1; 208:19; 227:1
 ensuring [1] 292:12
 enter [2] 103:17; 324:16
 enterectomy [2] 97:1; 99:19
 entertain [1] 273:21
 enthusiasm [1] 176:16
 enthusiastically [1] 47:6
 entitled [1] 114:21
 entity [2] 61:9; 308:1
 enumerate [1] 59:6
 enumerated [1] 62:8
 environment [1] 251:11
 environmental [1] 188:5
 envision [6] 146:8; 170:19; 182:19; 278:16; 338:20
 envisioned [1] 135:4
 enzyme [1] 336:7
 enzymes [3] 148:15, 19; 241:4
 EPA [1] 67:5
 epidemiologic [6] 142:20;

197:7; 253:20; 262:7; 286:19; 303:4; 305:4; 313:15
 epidemiological [3] 234:1, 3; 259:17
 epidemiologies [1] 86:4
 epidemiologist [2] 7:12; 8:22
 epidemiologists [1] 83:9
 Epidemiology [3] 8:22; 9:19, 20
 epidural [1] 220:16
 epidurals [1] 226:18
 epigenetic [1] 232:19
 epilepsy [1] 40:12
 equal [3] 69:20; 213:16; 336:19
 equally [4] 69:19; 83:20; 190:9; 332:18
 equated [1] 310:17
 equation [1] 320:17
 equivalent [2] 270:1; 334:12
 era [1] 251:8
 Ergo [1] 32:22
 Eric [2] 70:20; 103:14
 err [2] 144:3; 288:16
 errors [3] 80:8; 86:16; 93:2
 espouse [1] 164:15
 essential [5] 219:15; 253:3; 260:22; 287:6; 313:2
 essentially [3] 71:22; 144:19; 330:17
 establish [2] 195:6; 227:11
 established [5] 22:22; 35:8; 155:19; 254:11; 293:14
 establishing [2] 49:7; 186:18
 estimate [4] 70:1; 97:16; 313:6; 316:10
 estimates [1] 41:1
 estimating [1] 271:22
 estimation [2] 70:13; 87:1
 estimations [1] 97:18
 estradiol [1] 127:15
 et [3] 220:18; 222:18; 223:6
 etcetera [7] 38:13, 14; 109:22; 119:11; 146:13; 185:9; 310:16
 ethical [2] 198:8; 290:3
 ethnic [1] 14:2
 EU [5] 67:10; 264:1; 266:2; 268:10; 285:2
 Europe [4] 246:20; 247:6; 254:1; 269:11
 European [9] 48:10; 221:18; 245:12, 21; 246:1; 249:1; 262:13, 16; 310:15
 evaluate [4] 118:8; 221:20; 240:18; 275:14
 evaluated [5] 59:3; 137:7, 16; 165:14; 251:18
 evaluating [2] 168:5; 273:4
 Evaluation [9] 7:15, 22; 10:12; 18:14; 56:4; 161:2; 222:3; 245:19; 249:1
 evaluation [18] 55:7, 9, 11, 20; 60:8, 10; 61:3; 63:15; 162:21; 165:19; 166:5; 201:19; 202:6; 221:7; 251:9; 275:11; 308:13; 342:5
 evaluative [1] 58:5
 event [6] 5:8; 50:3; 105:20; 117:7; 123:22; 287:9
 events [5] 83:5; 87:2; 122:13,

15, 20
Everybody [2] 110:6; 237:12
everybody [12] 10:10; 49:18; 107:8; 110:4; 145:20; 149:17; 167:22; 175:2; 177:7; 277:10; 330:15; 337:10
everyday [1] 288:8
evidence [28] 30:11; 61:19; 69:9; 70:8; 118:8, 12; 152:12; 155:1, 2, 12; 156:11; 180:13; 208:7; 215:6; 226:20; 251:15; 285:19; 286:18; 287:16; 298:19; 299:10; 304:4; 317:18; 341:6, 9, 10, 14; 342:5
EVMS [2] 183:6; 189:14
evolution [1] 99:14
evolve [1] 113:4
evolved [4] 79:6, 17; 98:7; 309:7
exacerbations [1] 318:11
exact [4] 242:4; 255:4; 271:15, 16
Exactly [3] 144:10, 11; 150:3
exactly [16] 25:22; 38:7; 69:16; 95:9; 98:14; 135:18; 144:15; 148:11; 149:7; 168:22; 294:2; 295:20; 297:18; 299:15; 319:6; 346:9
examinations [1] 266:21
examine [3] 35:13; 36:4; 252:22
examined [1] 161:14
examining [1] 35:20
Example [2] 165:10, 16
Examples [1] 40:3
examples [12] 38:11; 66:17; 80:18; 108:4; 120:10; 150:16; 157:10; 256:20; 280:2; 297:19; 336:1, 2
exceed [1] 325:10
Excel [1] 195:22
excellent [4] 120:16; 182:13; 339:19; 349:8
except [6] 65:10; 69:20; 132:13; 136:7; 236:22; 247:17
exception [3] 27:5, 19; 272:11
exceptions [5] 45:19; 248:20; 261:2; 268:2; 272:12
excessively [2] 36:16; 268:3
excipients [2] 201:1, 3
exciting [1] 229:13
exclude [1] 5:11
excluded [4] 264:5; 315:20; 329:20; 330:2
exclusion [2] 5:12; 39:7
excreted [1] 173:13
Excuse [1] 203:16
excuse [1] 227:4
Executive [2] 207:10; 243:6
exempt [1] 199:22
exercise [1] 125:6
exercised [8] 257:5; 258:20; 259:4, 10, 15; 260:8
exerts [1] 176:20
exist [2] 30:20; 251:16
existed [1] 208:18
existence [1] 21:19
exists [4] 17:16; 113:16; 158:13; 167:5
expect [4] 16:21; 17:1; 131:11; 143:1

expectations [4] 16:20; 17:3; 122:6; 289:8
expected [4] 40:13; 151:16; 253:4; 263:19
experience [26] 15:5; 32:8; 36:7; 45:20; 61:9; 64:7; 70:3; 99:16, 17, 21; 100:1; 107:8; 128:20, 22; 160:10; 218:10; 220:22; 242:22; 249:6; 255:6; 281:17; 282:20; 289:17; 303:9; 327:15; 330:20
experienced [2] 234:4; 235:8
experiences [1] 101:10
experimental [8] 249:7; 250:7, 14, 15; 252:7, 10; 254:9, 10
experiments [1] 323:17
expert [10] 47:22; 98:16; 176:17; 179:4, 15; 284:11; 294:17, 18, 20; 304:19
expertise [16] 17:6, 7, 9, 16; 19:9, 11; 45:11, 15, 17; 47:16, 20; 99:15; 104:22; 105:2; 131:18
Experts [2] 91:18, 21
experts [14] 24:12; 47:8; 59:7, 14; 91:2, 8, 10, 16; 266:13, 16; 284:6, 22; 291:17; 303:5
explain [4] 308:4; 341:2; 343:5; 345:8
explained [1] 276:18
explaining [1] 334:6
explanation [1] 230:16
explicating [1] 97:18
expose [1] 125:2
exposed [15] 29:9; 136:3; 150:4; 154:4, 12; 157:13; 197:10; 198:16; 204:7; 205:14; 208:8; 220:3; 259:1, 12; 267:6
exposure [34] 29:7, 12; 40:19; 41:21; 54:18; 61:6; 63:22; 64:6; 117:21; 123:14; 182:15; 194:20; 202:2; 211:19, 20; 249:17; 253:2; 255:8, 13; 266:11; 295:17; 297:14; 308:14, 16, 22; 309:5; 324:6, 8, 16, 21; 325:8, 17; 327:10
exposures [12] 184:12; 188:4, 5, 6; 195:3; 204:8; 232:11; 253:2; 283:1; 299:10; 309:1
express [2] 14:3; 83:3
expressed [5] 83:15, 18; 84:19; 85:5; 167:10
expression [4] 80:7; 82:17, 21; 256:4
expressions [12] 80:5; 81:3, 15, 17; 82:15, 19; 83:13; 84:14, 18; 92:18, 19
extending [1] 101:19
extensive [3] 253:20; 318:7; 341:10
extensively [1] 324:11
extent [10] 41:21; 88:19; 138:14; 170:12; 214:4; 216:11; 295:12; 327:19; 328:15; 338:2
external [2] 34:16; 241:5
extract [2] 168:22; 169:6
extraordinary [1] 238:11
extrapolate [4] 15:8; 115:18; 205:12; 242:7
extrapolating [2] 160:9;

300:11
extrapolation [1] 337:4
extrapolations [1] 336:14
extreme [1] 308:19
extremely [13] 11:5; 34:8, 10; 35:2; 47:6; 187:5; 240:8; 268:20; 281:19; 310:5; 316:12; 332:13; 344:10
extremes [1] 336:2

- F -

F-0 [3] 60:18; 63:5; 116:22
F-1 [4] 60:17; 63:6, 15; 66:19
face [2] 125:12; 127:2
faced [7] 28:15; 29:1; 33:22; 40:15; 41:4; 46:15; 77:2
facetiously [1] 185:5
facilitate [6] 29:6; 40:15; 46:13; 194:19; 250:11; 347:11
fact [46] 33:2, 8; 35:3; 38:16, 18; 64:12; 67:9; 79:15; 98:19; 102:16; 103:17; 121:16, 17; 126:9, 10; 130:19; 146:10; 154:3; 155:19; 159:21; 166:17; 167:22; 170:3; 180:16; 182:21; 185:7; 193:8; 201:4, 6; 220:13; 226:1; 229:19; 230:22; 232:8; 234:17; 272:6; 280:20; 284:21; 294:8; 306:9; 314:1; 323:20; 329:13; 330:9; 331:5; 334:22
factor [8] 69:1; 71:19; 88:5; 89:15; 90:4; 110:16; 116:21; 253:3
factors [15] 63:11; 70:7; 89:13, 14; 117:12; 125:4; 154:7, 8; 160:12; 162:17; 173:2; 183:14; 252:16; 300:10
facts [3] 255:6; 343:14; 344:3
factual [3] 211:22; 217:7; 343:16
faculty [1] 8:11
fades [1] 22:8
fall [1] 226:12
failed [1] 219:8
falls [1] 270:21
failure [1] 226:6
fair [7] 15:5; 35:18; 37:1; 109:2; 216:19; 276:13; 342:22
fairly [8] 96:22; 157:8; 197:8; 218:6; 283:14; 291:11
fairness [1] 5:15
fall [1] 76:13
falling [1] 181:7
falls [1] 314:7
false [2] 130:9; 283:22
familiar [6] 29:17; 38:1; 87:3; 134:7; 181:20; 319:13
familiarity [1] 94:18
family [8] 41:1; 73:21; 162:3; 163:11; 166:2, 13, 17; 183:18
Farrelly [1] 66:4
fascinating [2] 100:20; 111:8
fashion [2] 107:5; 287:2
fashions [1] 317:5
fast [1] 149:12
faster [2] 173:13; 188:11
fatal [1] 89:18
father [1] 102:12
fatty [1] 299:2
fault [1] 234:13

favor [1] 179:5
favorable [1] 164:22
Fear [1] 166:8
fear [3] 92:8; 103:6; 337:20
feasible [2] 122:17; 301:20
February [3] 161:4, 17, 22
fecal [1] 101:20
fecundity [1] 63:3
Federal [5] 113:14, 17; 261:13; 276:14; 277:14
feed [2] 55:9; 331:16
feedback [12] 18:7; 22:2; 37:3; 44:11; 69:16; 120:2; 143:13; 144:16; 147:10; 161:17; 182:22; 217:18
feel [19] 17:6; 34:20; 98:10; 109:12; 136:17; 149:19; 158:2; 182:8; 186:8; 210:7; 214:13; 278:13; 283:11; 285:7; 289:14; 291:13, 20; 325:15; 347:9
feels [1] 304:19
Feinstein [1] 86:3
Fellow [1] 19:2
fellowship [6] 7:10; 19:2, 7; 71:1; 74:5
felt [7] 119:20; 130:7, 8, 9, 10; 229:19; 340:13
female [3] 180:20; 265:6, 11
Fertility [1] 227:16
fertility [16] 63:3; 133:7; 140:11; 157:11; 203:19; 210:11; 219:14; 249:12; 256:8, 9, 16; 273:6; 294:9, 10, 12, 13
fertilizers [1] 90:10
fetal [34] 6:20; 39:8; 137:9, 19; 139:5; 143:21; 144:1; 145:12; 147:22; 148:3, 11, 15, 21; 155:4, 18; 165:15, 19; 166:5; 181:20; 220:5; 222:16, 22; 223:5, 13, 17; 224:22; 226:15; 290:11; 320:20; 326:17; 336:8, 9, 11
fetotoxic [2] 250:18; 253:9
fetus [24] 40:2, 10; 73:9; 108:15; 109:6; 110:10, 11; 137:1; 153:19; 181:20; 182:14, 15; 191:13; 205:16; 223:12, 22; 257:22; 259:19; 265:12; 267:11; 320:14; 335:13; 345:11; 346:18
fetuses [5] 115:22; 116:6; 208:9; 215:8, 14
fewer [1] 204:9
fiber [1] 223:18
fibers [1] 224:20
fictitious [2] 136:19; 162:8
field [3] 105:4; 303:5; 318:1
Fifteen [1] 161:20
fifth [1] 295:15
Fifties [1] 208:10
figure [4] 60:4; 70:5; 200:6; 338:1
figures [1] 253:22
figuring [1] 13:3
file [1] 50:2
final [15] 25:18, 21; 26:5; 114:2; 226:2; 254:18; 267:2; 278:10, 15; 286:4; 296:2; 334:15, 17; 348:12
financial [7] 4:18; 5:10, 16; 207:14, 17, 18, 20

find [31] 16:20; 17:17; 32:11; 48:2; 69:22; 74:6; 83:11; 87:17; 89:12; 96:7; 97:11, 16; 106:7; 109:17; 111:13; 123:16; 128:7; 134:2; 153:5; 164:18; 171:12; 176:18; 177:19; 186:20; 202:12; 221:3; 276:22; 285:9; 297:15; 299:6; 344:6
 finding [10] 50:10; 115:5; 163:14; 198:17; 211:2; 245:6; 252:21; 271:3, 4; 297:21
 findings [23] 32:22; 39:16; 54:17; 58:7; 59:15; 61:18; 62:20; 64:20; 65:1, 4, 8, 15; 115:10, 13; 121:7; 123:3; 202:1; 250:19; 252:15; 254:10; 255:19; 300:11
 Fine [1] 114:12
 fine [7] 142:14; 145:17; 218:5; 220:6; 324:15; 329:10; 347:11
 fire [1] 226:11
 firm [3] 4:21; 5:17; 129:2
 firms [1] 5:9
 First [7] 22:19; 42:19; 45:15; 51:1; 64:18; 260:1; 274:11
 Fisher [1] 66:4
 fit [2] 122:5; 285:21
 fits [1] 37:18
 fitting [1] 127:3
 five [10] 30:3; 35:10; 72:16; 78:6; 82:11; 88:6; 215:1; 226:3; 258:22
 fix [1] 187:17
 fixed [1] 272:18
 fixing [1] 196:2
 flag [2] 187:8; 290:13
 flavor [3] 20:5; 29:4; 36:2
 flexibility [2] 209:5; 277:2
 flexible [2] 134:9; 141:8
 fliers [1] 349:3
 floored [1] 105:10
 flow [4] 20:20; 202:11; 301:10; 302:12
 Fluoroquinolone [1] 23:10
 fluoroquinolones [1] 205:5
 Focus [2] 161:6, 8
 focus [17] 39:5; 68:13, 17; 88:22; 158:8; 161:4, 16; 162:5; 166:18; 181:1; 214:5; 281:5; 297:21; 306:21; 313:19; 323:15; 347:21
 focused [3] 63:9; 98:6; 164:21
 focuses [1] 125:19
 focusing [2] 157:11; 248:21
 fold [1] 131:12
 folder [2] 87:12
 folic [2] 153:8, 12
 folks [7] 29:18; 41:3; 47:9; 125:21; 126:14; 276:9; 278:6
 follow [5] 184:1; 220:2; 316:9; 322:9, 15
 follow-up [4] 120:20; 144:5; 145:1; 220:4
 followed [7] 31:20; 145:15; 164:7; 169:12; 183:12; 271:16; 322:19
 following [4] 4:13; 74:11; 227:6; 319:20
 Food [2] 224:4; 238:18
 food [1] 23:5

Force [12] 7:18; 21:21; 35:8, 11; 45:5; 54:10, 14, 20; 55:4, 6, 21; 64:13
 force [7] 16:8; 17:15, 19; 19:13; 35:9; 44:9; 185:2
 forefront [1] 163:14
 forego [1] 228:19
 foregoing [4] 129:10; 206:11; 274:2; 349:12
 forget [3] 183:7; 242:15; 318:21
 form [5] 55:2; 141:7; 221:22; 224:16; 322:14
 formal [3] 36:1; 191:17; 208:13
 formally [3] 6:11; 44:17; 195:7
 format [25] 51:12; 55:10; 82:20; 93:10; 103:20; 106:18; 107:2; 139:10; 140:12; 162:10, 13; 163:1; 164:4, 5, 16, 19; 165:8; 167:4; 248:11, 12; 249:18; 278:22; 279:2; 281:5; 306:9
 formats [4] 84:16; 96:5, 7; 317:15
 formed [1] 133:16
 former [2] 29:11; 243:7
 forms [2] 247:12; 342:9
 formula [1] 116:11
 formulate [1] 161:9
 formulated [1] 342:4
 formulation [2] 201:2, 9
 Farrow [1] 84:20
 forth [3] 50:20; 113:2; 123:15
 forthright [1] 33:14
 forties [4] 88:2, 5; 192:17; 193:6
 fortunately [2] 108:20; 219:1
 fortune [1] 242:21
 forum [2] 56:17; 67:8
 forward [9] 16:4; 17:17, 21; 51:9; 113:13; 114:1; 186:17; 245:7; 349:8
 fosters [1] 38:18
 found [18] 21:18; 34:5; 49:20; 74:1, 11; 80:16; 83:17, 20; 85:3; 90:21; 111:7; 157:14; 197:8; 222:19; 248:19; 260:9; 316:15; 317:19
 Foundation [2] 71:2; 219:6
 founding [1] 208:4
 four [15] 18:22; 22:6, 12; 77:6; 80:3; 81:15; 86:18; 145:19; 153:21; 162:16; 218:20; 226:20; 242:8; 256:21; 293:4
 fourth [2] 258:17; 295:11
 fraction [1] 64:6
 fractions [1] 122:16
 frame [3] 104:14, 16; 275:22
 framed [2] 80:17, 20
 framework [4] 65:3; 72:14; 122:19; 338:7
 framing [3] 80:4, 11; 146:22
 Francisco [1] 8:12
 Francois [4] 245:12, 15; 270:11; 310:15
 Frankly [1] 27:5
 frankly [1] 349:8
 fraught [1] 82:19
 free [4] 103:18; 141:7; 227:22;

282:6
 Freedom [1] 5:6
 freely [1] 52:9
 French [3] 245:16, 17; 270:7
 frequency [3] 81:5, 14; 92:20
 frequent [4] 81:18; 82:8, 12; 184:11
 Frequently [1] 97:16
 frequently [2] 66:22; 223:10
 friend [1] 87:6
 friendly [1] 138:7
 friends [1] 282:7
 frighten [1] 289:4
 front [16] 21:3; 103:22; 109:14; 110:4; 120:11; 164:7; 165:6; 167:12; 169:6; 181:2; 212:11; 302:16; 303:12; 319:10; 320:4; 322:3
 frontier [2] 101:12, 13
 fruitless [1] 283:20
 fruits [1] 19:13
 frustrated [4] 32:11; 33:1, 8; 35:3
 frustrating [2] 32:10; 41:5
 frustration [2] 34:19, 20
 frying [1] 226:10
 fulfill [1] 281:10
 full [8] 102:20; 189:5; 198:13; 212:20; 289:1, 15
 fully [3] 18:12; 84:12; 188:17
 function [8] 55:16, 18; 68:18; 122:12; 180:1, 4; 198:12; 223:3
 functional [10] 63:7; 66:18; 68:9, 13, 15; 295:11; 297:6, 11; 327:19; 346:13
 functionally [1] 241:2
 functions [4] 9:7; 56:11; 57:11; 139:2
 fund [1] 228:2
 fundamentally [1] 65:6
 fungal [1] 339:3
 future [8] 20:6; 54:8; 57:1; 114:18; 186:7; 275:16; 324:12; 348:3

- G -

G-0 [1] 63:16
 gap [1] 120:6
 gather [3] 114:6; 188:14; 228:5
 gauge [1] 17:2
 gave [8] 16:13; 83:14; 107:10; 108:4; 163:22; 180:16; 275:9; 330:6
 geared [1] 122:4
 gee [1] 153:12
 gender [2] 101:1; 317:6
 gene [2] 101:21; 241:5
 generalist [1] 43:14
 generalizability [1] 76:19
 generalizable [1] 161:12
 generate [1] 204:10
 generation [13] 14:11; 45:13; 49:3; 60:17, 18; 63:5, 6, 16; 117:1, 5, 8, 11
 generations [1] 66:19
 generic [5] 128:6, 8; 230:16; 257:20; 259:18
 genes [2] 101:17, 18

genetic [14] 6:17; 100:6, 7, 14, 20; 101:11, 15; 126:12, 15; 230:10; 232:21; 235:1; 311:4, 7
 Genetics [1] 7:13
 genetics [3] 154:10; 342:22; 344:18
 gentleman [1] 89:4
 gentlemen [1] 349:1
 George [1] 237:18
 Gerald [5] 8:6; 141:17; 173:7; 196:17; 203:16
 geriatrics [1] 27:15
 German [1] 261:13
 germane [1] 118:5
 gestation [2] 155:10; 255:12
 gets [8] 15:18; 39:1; 98:9; 101:5; 143:4; 154:22; 306:8; 320:4
 GIACOIA [1] 237:18
 Giacoia [1] 237:18
 Gideon [2] 21:7; 92:6
 Gilead [5] 8:19, 20; 146:20; 201:14; 291:7
 Ginny [1] 277:15
 give [50] 12:5; 20:5, 21; 21:9, 14; 22:8; 27:22; 36:2; 46:14; 47:1; 48:1; 65:22; 66:17; 96:6; 98:13; 105:11; 109:1; 111:4; 127:12; 128:9; 130:1, 9; 132:22; 136:17; 154:9; 164:2; 168:21; 173:4; 183:20; 198:13; 202:16; 217:18; 230:15; 243:14; 245:22; 247:22; 262:10; 265:17; 270:19; 274:16; 279:6; 280:2; 284:2; 286:13; 291:12; 293:5, 14, 15; 324:14
 Given [1] 322:1
 given [49] 12:11; 35:11; 41:21; 51:21; 65:9; 69:19; 70:3, 11; 74:3; 78:5; 82:18; 83:22; 84:12; 85:16; 87:16; 94:3, 7; 102:22; 122:2, 6; 133:4; 134:5; 143:8; 150:16; 170:15; 173:1; 180:12; 183:17; 184:1; 191:17; 206:8; 208:9; 209:2; 220:12; 225:9; 247:4, 7; 255:15, 18; 256:5, 7, 9; 302:2, 10; 304:17; 332:16; 336:10; 340:10
 gives [7] 24:18; 121:16, 17; 124:9; 148:1; 164:13; 244:17
 giving [10] 21:20; 28:3; 43:13; 122:12; 229:6; 239:11; 268:12; 273:8; 282:13; 326:3
 glad [3] 115:7; 201:17; 298:7
 glancing [1] 209:11
 glass [1] 80:14
 Glaxo [1] 9:1
 glia [1] 224:20
 global [5] 78:17, 18; 191:21; 201:19; 254:19
 glossary [1] 22:13
 GLP [1] 118:18
 glue [1] 50:10
 gluteramides [1] 332:12
 glutethimide [3] 332:10; 333:6
 goal [5] 112:12; 134:4; 244:16; 277:7, 20

goals [6] 58:12, 22; 140:20;
218:2; 243:11; 311:18
God [1] 49:12
god [1] 42:2
goes [12] 12:13; 19:5; 25:5;
31:5; 113:15; 188:1; 191:19;
210:8; 276:20; 289:19; 318:13;
319:6
gotten [3] 98:9; 244:8; 347:9
governing [1] 28:22
government [3] 50:17;
213:10, 13
gradation [2] 38:16; 130:10
grade [1] 269:16
graded [1] 38:15
grades [2] 38:12; 256:21
grandfather [1] 199:18
grandfathers [1] 86:3
grandmother [1] 199:18
granted [1] 5:2
graphics [1] 10:5
grapple [1] 95:21
GRAS [1] 199:16
grasp [1] 178:18
great [22] 19:20; 24:1; 38:17;
49:22; 101:12; 103:1; 115:11;
128:4; 130:21; 142:15; 150:13;
213:21, 22; 244:1; 274:9;
290:6; 330:10; 333:13; 334:3;
342:3, 12; 348:9
greater [9] 70:3; 116:10;
117:20; 232:5, 9; 269:3;
314:20; 316:1; 341:13
greatest [2] 35:1; 58:1
greatly [3] 77:21; 173:1; 276:5
Green [1] 6:13
green [6] 87:12; 152:21;
157:10; 166:16; 206:10; 284:8
Greene [6] 4:4; 53:14; 114:13;
146:5; 184:8; 191:14
grip [2] 15:14, 15
gross [2] 223:19; 241:5
ground [4] 20:3; 187:6; 309:7;
336:14
grounded [1] 92:20
Group [6] 8:22; 55:14; 56:7;
58:3, 11; 65:21
group [39] 13:12, 13; 14:8;
16:17, 19; 18:6; 38:21; 58:3;
59:6; 65:19; 66:2; 76:11;
81:12; 88:21; 91:17; 120:9;
122:3, 5; 125:20; 126:19, 21;
133:17; 146:19; 162:5; 181:1;
188:1; 199:15; 207:14; 214:2;
217:12; 226:2; 231:9; 266:7;
281:5; 286:12;
291:17; 292:15; 343:19
grouping [1] 38:20
groups [15] 14:2; 37:1; 89:11;
90:18; 91:4, 19; 122:22; 161:4,
6, 8, 16; 163:7; 166:18; 214:5;
310:19
growing [3] 193:8; 225:15;
226:5
growth [26] 63:7; 137:9, 19;
139:5; 143:21; 145:13; 147:22;
148:3, 11, 15, 21; 153:18, 22;
154:1; 155:4, 9, 18; 165:15;
192:18; 223:18; 235:16; 242:1;
295:8, 9; 296:15; 326:17
guess [23] 16:6; 18:22; 108:1;

118:5, 7, 10; 150:21; 154:22;
155:10; 156:1; 171:22; 174:19;
178:18; 193:13; 233:10;
276:12; 287:9; 332:19; 335:11;
338:8; 340:11; 342:19; 345:7
guest [1] 349:4
Guidance [1] 23:15
guidance [41] 23:17, 18; 24:4;
47:4; 49:5, 6; 50:6; 51:2;
52:17; 115:9; 132:22; 133:1;
136:12, 13; 137:20; 140:16;
144:5; 170:1; 179:4; 246:1, 4,
5, 22; 249:12; 254:18, 20;
255:4, 14; 261:8, 15; 262:9,
15, 18; 274:15; 276:18; 279:6;
286:13;
293:6, 7; 301:10; 340:10
guide [3] 163:8; 196:1; 339:21
guideline [4] 248:5; 256:8;
259:22; 267:2
guidelines [5] 57:20; 65:11;
123:10; 178:5; 251:12
guinea [1] 126:14
guys [1] 11:11
GYN [1] 6:20
gynecologist [1] 6:14
gynecologists [1] 293:18
Gynecology [1] 161:22
gynecology [1] 8:9

- H -

hadn't [1] 236:8
HAIRE [1] 218:19
Haire [1] 218:18
half [5] 80:13; 85:3; 116:6;
230:7
half-empty [1] 80:14
half-full [1] 80:14
HAMMOND [5] 9:3; 127:8;
189:4; 293:11; 330:17
Hammond [4] 9:3; 127:8;
189:4; 293:9
hand [7] 6:6; 33:1; 106:19;
186:8; 252:4; 324:20; 337:18
handbook [1] 57:2
handbooks [1] 37:19
handful [1] 215:11
handle [3] 97:22; 114:17;
263:1
handling [1] 313:8
handout [1] 348:13
hands [2] 300:18; 332:22
Hansen [3] 329:14, 15, 18
happening [4] 48:18; 154:3;
186:6; 275:11
happens [8] 83:12; 98:15;
104:8; 105:21; 113:13; 128:8;
177:20; 243:17
happier [1] 11:1
happy [7] 94:10; 130:5; 187:8;
195:8; 209:17; 217:15; 256:14
hard [21] 45:3; 73:12; 76:16;
92:17; 94:6; 96:16, 19; 106:3,
9; 135:17; 176:9; 178:9, 18;
190:21; 229:7; 230:15; 236:4;
237:10; 311:14; 339:13, 22
harder [1] 306:15
harm [11] 85:13; 90:6; 208:7,
8, 16; 210:16; 211:21; 216:3,
4; 220:5; 346:20

harmful [4] 257:21; 258:19;
267:11, 22
Harmonization [1] 48:9
hasn't [1] 152:7
Hasting [1] 98:5
hat [1] 345:5
hate [5] 86:12; 100:11;
164:11; 236:4; 304:9
hats [1] 175:10
haven't [10] 21:12; 31:20;
100:19; 171:20; 174:12;
297:17; 303:3; 312:6; 337:9;
347:17
Hazard [2] 125:7; 287:8
hazard [21] 62:1, 5; 123:7, 20;
124:1, 6, 7, 9, 10, 13, 15, 18;
151:16; 251:15; 308:16; 309:4,
9; 324:3, 4; 325:16; 327:9
hazards [2] 327:7, 12
head [3] 8:22; 16:10; 125:17
headings [2] 22:10; 157:17
headline [1] 281:5
heads [3] 19:17; 54:3; 323:3
Health [9] 207:11; 219:5, 7;
227:17; 229:4, 12; 237:19;
245:18; 287:14
health [15] 11:19; 12:3, 21;
15:13; 16:21; 26:17; 132:14,
16; 185:8; 207:20; 217:4;
219:9; 239:1; 247:15; 289:9
healthy [1] 13:22
heaping [1] 281:1
hear [19] 24:13; 27:16; 43:2;
51:11; 53:19; 100:16; 101:10;
120:7; 142:10; 153:6; 191:2;
201:17; 265:4; 276:9; 288:12;
312:21; 317:4, 8; 344:7
heard [19] 19:3; 71:6; 73:4;
95:3, 6; 105:9; 133:4; 146:21;
153:11; 163:18; 166:9; 181:1;
214:4; 215:20; 217:21; 268:22;
284:1; 290:5; 334:21
hearing [22] 17:13, 18; 24:8,
16, 17; 36:8, 21; 45:3; 51:6;
103:16; 120:3; 134:13; 154:18;
159:1; 194:13; 207:16; 250:2;
274:14; 285:6; 321:1, 10
hearings [2] 64:14; 160:16
heart [8] 15:18, 19; 18:21;
19:5; 47:13; 218:21; 222:14,
16
heartened [1] 225:6
hearts [1] 11:8
heat [1] 302:17
heavily [3] 146:14; 176:2
heavy [2] 39:5; 201:16
HEISER [1] 243:5
Heiser [1] 243:5
held [3] 36:8; 250:2; 268:14
Help [1] 339:15
help [25] 4:9; 11:2; 12:13;
17:16; 49:13; 51:10; 53:10;
95:4; 98:16; 99:1; 130:2;
136:11; 137:14; 168:8, 19;
170:5; 209:20; 260:12, 13;
283:21; 340:11, 12; 343:9;
346:6; 348:5
helpful [32] 11:13; 47:12;
52:15, 22; 109:9; 147:8; 148:5;
153:7, 15; 154:12; 171:13, 15;
172:1; 179:19; 181:9; 189:22;

232:6; 236:3; 239:12; 274:10,
21; 277:5; 280:4; 281:2;
291:18; 293:6; 304:21; 310:18;
316:3; 340:2; 344:2
helping [3] 137:14; 203:3;
315:9
helps [6] 52:17; 104:17;
134:1, 2, 6, 7
hepatotoxic [1] 148:16
hepatotoxicity [1] 298:20
hesitate [1] 337:3
hierarchical [3] 61:17;
270:19; 271:9
hierarchy [1] 305:2
high [30] 35:2; 61:13; 69:2, 5;
84:22; 89:21; 91:5, 7, 16;
93:20; 95:16; 109:2; 150:6;
197:9; 225:17; 244:7; 283:14,
18; 289:7; 293:1; 309:4, 17,
19; 310:2, 5, 8; 315:20;
329:20; 330:2; 343:16
higher [3] 119:9; 168:21;
312:15
highest [1] 90:20
highlight [4] 71:14; 90:15;
99:14; 290:22
highlighted [3] 250:10; 252:9;
267:15
highlights [2] 84:7; 89:9
highly [7] 92:12; 123:9; 131:7;
138:8; 141:3; 291:15; 332:8
Hillary [1] 66:7
hints [2] 52:15; 274:10
hippocampal [1] 222:20
historical [8] 67:1, 2; 119:10;
121:22; 122:3, 6, 11; 215:20
historically [2] 68:17; 119:15
history [2] 21:17; 303:16
hit [1] 278:21
HIV [5] 108:12, 14; 109:6;
110:11; 150:7
HMOs [2] 190:12; 234:13
hold [3] 53:15; 206:7; 211:13
HOLMBOE [9] 70:19; 95:7;
98:2; 100:10, 18; 103:1;
105:18; 107:6; 108:19
Holmboe [8] 70:18, 20; 94:13;
100:3; 111:3, 13; 124:2, 15
home [2] 104:10; 231:2
honest [3] 101:12; 109:14, 18
hope [4] 11:12; 18:4; 94:7;
113:8
hopeful [1] 292:8
hopefully [3] 105:15; 202:9;
278:16
hopes [1] 207:15
hoping [1] 147:3
hormone [1] 30:5
horrible [1] 318:12
Hospital [3] 4:5; 6:15; 8:8
hospital [4] 7:9; 93:21;
175:17; 244:3
hospitals [2] 188:2; 228:7
hour [2] 162:6; 340:14
hours [3] 37:5; 225:4, 5
huge [6] 103:12; 147:6;
173:13; 194:21; 197:6; 324:11
Human [2] 69:21; 237:19
humans [34] 25:6; 41:8; 61:4,
7, 11, 18; 64:8; 68:11; 115:18;
116:12; 125:14; 126:16; 164:3;

184:16; 197:6, 10; 204:3;
210:17; 218:12; 241:20, 22;
251:9; 252:5; 253:8; 267:22;
272:7, 10; 300:9; 303:4;
313:22; 326:1, 21; 327:1;
341:22
Hungary [1] 197:7
hurdle [1] 95:18
hurry [1] 37:22
hydrocortisone [1] 197:2
hypercholesterolemia [1]
85:5
hypertension [9] 27:11;
85:20; 95:2, 11, 12; 108:9;
155:17; 318:13
hyperthyroidism [2] 40:4;
318:12
hypoglycemia [1] 299:22
hypothermia [1] 299:22
hypothesis [1] 119:6
hypothetical [2] 160:5;
314:19
hypotheticals [1] 314:22
hypoxemia [1] 182:14

- | -

I'd [45] 4:7; 5:20; 10:1; 35:20;
55:17; 70:16, 18; 72:13; 81:7;
86:15; 94:10, 13; 101:9;
110:12; 111:4; 115:14; 123:4,
8; 127:6; 129:4, 9, 13; 130:1;
158:6; 160:19; 164:9; 167:15;
218:18; 228:1, 14; 239:8, 16;
244:7; 245:11; 289:22; 304:6;
306:17, 21; 307:22; 308:2;
311:16; 312:21; 314:17;
322:11; 338:6
I've [26] 4:6; 10:19; 53:5;
62:4; 72:15; 77:2, 20, 22;
81:15; 97:17; 115:19; 151:19;
209:10; 216:19; 231:13;
235:11; 244:4, 8; 245:16;
272:5; 309:20; 317:17; 329:19;
334:21; 347:7
ICH [1] 65:11
ID [1] 19:17
idea [17] 32:19; 37:13, 14, 16;
94:21; 97:14; 142:15; 195:10;
220:4; 228:9; 268:2; 271:18;
278:17; 291:19; 304:18; 330:8;
347:10
ideal [1] 177:15
identification [1] 72:22
identification [6] 62:1, 5, 6;
72:18, 22; 124:10
identified [12] 54:15; 73:16;
152:11; 264:10; 287:9; 310:21;
314:1; 327:7, 13; 331:10;
333:11; 339:22
identifies [1] 48:14
Identify [1] 173:21
identify [12] 6:11; 9:17; 66:12;
107:18; 170:8; 183:4; 206:4;
240:17; 241:10; 286:7; 322:2;
333:11
identifying [2] 161:7; 240:14
idovudine [1] 299:1
ignorance [2] 302:16; 328:7
ignore [1] 241:22
il [1] 336:7

ill [1] 35:7
ill [1] 30:13
illness [6] 9:10; 109:7;
181:22; 182:16; 318:9; 337:19
imagine [4] 46:17; 88:20;
103:10; 106:12
immediate [4] 75:14, 18;
227:3; 313:1
immediately [3] 266:10;
278:11; 295:17
immunoglycosides [1]
173:18
impact [12] 4:21; 92:22;
117:19; 147:1; 148:22; 160:6,
14; 176:7; 212:19; 220:17;
244:1; 296:5
impacted [1] 297:14
impacts [3] 39:16; 78:3; 176:2
impaired [1] 139:5
impairment [2] 132:1; 145:13
impatient [1] 226:6
impetus [1] 216:6
implement [1] 141:10
implementation [6] 112:16;
113:3; 192:6, 7; 278:11;
347:12
implemented [2] 47:5; 195:9
implementing [3] 127:20;
276:1; 277:1
implications [2] 4:22; 289:18
implies [1] 38:10
importance [2] 78:12; 244:13
importantly [1] 130:13
imposed [1] 238:7
impossible [2] 113:1; 321:21
impotence [4] 75:6; 77:20;
78:3; 103:8
impression [2] 130:9; 334:15
impressions [1] 162:22
improve [8] 36:17; 180:5, 6,
20; 219:10; 264:11, 16; 272:20
improved [1] 141:14
improvement [1] 69:3
improving [2] 48:4; 292:11
impute [1] 210:15
in-house [1] 17:7
inadequacy [1] 121:20
inadvertent [9] 29:7; 153:4;
188:7; 249:17; 255:13; 264:21;
265:8, 13; 266:11
inadvertently [2] 157:13;
267:6
incentive [2] 156:3; 238:17
incidence [5] 122:13, 20;
123:2; 236:1, 19
include [18] 28:21; 40:1; 63:3;
66:2; 144:17; 190:10; 192:8;
227:6; 244:14; 250:5; 251:16;
266:1, 11; 291:19; 300:12, 14;
308:15; 321:17
included [9] 62:2; 115:6;
122:3, 15; 160:17; 212:10;
240:11; 264:12; 293:16
includes [3] 201:1; 202:7;
207:22
inclusion [4] 185:22; 263:22;
264:1; 311:20
incomplete [2] 39:22; 179:18
inconsistencies [1] 216:9
inconsistency [1] 164:17
incontinence [2] 75:5; 103:8

incorporate [3] 118:10;
136:15; 169:22
incorporated [2] 185:14;
203:13
incorporates [1] 44:14
increase [7] 70:9; 117:17;
197:9; 198:18, 19; 244:5;
307:14
increased [9] 42:9; 132:7;
139:5; 155:19; 168:21; 198:17;
245:7; 307:9; 333:12
increases [1] 199:2
increasingly [4] 194:5; 205:2,
8; 226:5
incredible [3] 126:4; 138:6;
187:14
incredibly [4] 32:21; 315:13;
320:16; 326:9
incumbent [2] 156:9; 339:17
independent [1] 40:11
Indiana [4] 7:5; 107:21; 118:3;
154:15
indicate [12] 6:4; 31:22; 41:2,
19; 123:10; 215:8, 15; 254:4;
258:18; 259:1, 8, 17
indicated [12] 27:18; 58:17;
124:11; 163:7, 17; 212:18;
213:3; 338:5, 10, 11
indicates [1] 123:21
indication [7] 27:11, 13; 32:6;
173:2; 202:18; 321:19; 338:22
indications [3] 221:10, 13, 17
indications [3] 26:14; 173:3;
248:14
indicative [1] 254:1
indicators [1] 222:22
individual [22] 12:4; 15:13,
17; 25:22; 40:1, 2, 7; 72:11;
76:8, 21; 77:4, 8; 96:12;
126:13; 147:16, 20; 194:2;
225:2; 284:9; 288:2; 289:18;
323:17
individualized [2] 213:7;
216:12
individually [1] 146:2
individuals [8] 10:21; 65:19;
89:12; 90:18; 208:1; 284:11;
292:4; 309:18
individuation [1] 144:6
induce [1] 252:4
induced [5] 59:9; 222:16;
223:16; 225:3; 227:3
industrialized [1] 225:19
industries [1] 156:10
industry [5] 49:5; 66:6; 67:3;
69:14; 238:15
ineffective [1] 152:14
inequitable [1] 89:19
inert [1] 32:21
inevitable [2] 198:8; 346:5
infancy [1] 189:3
infant [5] 222:12, 15; 224:6;
227:7; 228:6
Infants [1] 222:4
infants [1] 139:3
infarction [2] 75:12; 77:7
infection [1] 339:3
infections [2] 7:17; 46:1
infectious [2] 18:18; 46:2
infer [1] 210:16
inferences [1] 283:7

infertile [1] 235:18
infertility [1] 127:10
influence [1] 80:12
influenced [1] 169:2
influences [1] 299:12
information [3] 5:6; 6:18;
187:20
informative [5] 36:15; 41:13;
131:15; 140:22; 260:10
informed [8] 15:18; 79:7, 18;
98:7; 99:5, 7; 105:22; 108:14
ingredient [2] 201:1; 287:6
INH [1] 298:19
inhaler [1] 191:9
inherent [1] 219:17
inhibitor [1] 336:11
inhibitors [1] 336:5
initiate [1] 65:14
initiation [1] 244:2
initiative [3] 156:3; 245:13;
246:2
initiatives [1] 56:11
injury [5] 71:19; 225:4; 227:3;
346:18, 19
innovative [1] 141:19
input [5] 24:9; 36:5; 51:1, 15;
217:22
inquiry [1] 303:8
insert [21] 23:7; 107:10, 12;
127:16; 131:12; 146:12;
198:12; 221:10, 13, 17;
223:11; 227:6; 228:16; 231:8;
236:22; 285:15, 22; 292:10;
301:1; 304:11, 21
inserting [1] 306:4
inserts [2] 226:12; 228:17
inside [1] 47:9
insist [1] 246:3
insofar [1] 156:13
instance [17] 27:12; 34:1;
45:22; 58:8; 67:18; 171:11;
193:18; 204:20; 252:4, 18;
254:2; 266:12; 267:7; 269:4, 8,
15; 339:1
instances [3] 67:15; 122:11;
179:15
Institute [3] 224:12; 238:14;
261:13
Institutes [1] 237:19
instructions [1] 133:5
instrument [1] 230:20
insufficient [6] 250:17; 251:5;
258:9, 11; 259:3; 285:9
insulin [1] 30:4
insult [1] 22:13
insurance [1] 190:5
integral [2] 200:12; 247:12
integrate [2] 58:13; 201:22
integrated [6] 47:17; 54:21;
126:19, 20; 139:13; 342:2
Integration [5] 55:14; 56:7;
58:3, 11; 65:21
integration [11] 58:22; 59:20;
61:1, 15; 62:10, 22; 64:19;
68:22; 116:18; 117:13; 309:20
intellectual [1] 43:5
intellectually [1] 52:13
intelligence [1] 22:13
intelligently [1] 154:1
intend [3] 139:15; 202:4;
331:16

intended [11] 28:13; 44:6; 65:17; 116:10; 124:22; 138:4; 183:1; 221:5; 271:20; 336:20; 337:2
 intense [2] 112:18; 146:16
 intensive [4] 7:5; 25:18; 46:22; 239:10
 intensively [1] 50:17
 intent [5] 28:22; 29:5, 14; 40:14; 221:22
 intention [1] 270:13
 interact [3] 101:7; 170:15; 213:13
 interacted [1] 295:22
 interaction [1] 154:11
 interacts [2] 170:20; 172:2
 interchangeably [1] 26:3
 interdisciplinary [1] 227:12
 interest [10] 4:12, 14; 5:10, 15; 24:1; 48:15; 58:1; 109:12; 156:3; 345:6
 interested [16] 41:14; 65:5; 67:12; 68:8; 70:22; 74:6; 89:7; 100:8; 158:22; 175:14, 21; 195:13; 230:5; 235:12, 14; 349:3
 interesting [12] 11:11; 48:3; 80:16; 81:9; 141:18; 170:7, 12; 182:21; 191:7; 230:7; 234:9; 301:16
 Interestingly [2] 31:7, 18
 interestingly [1] 166:7
 interests [1] 4:18
 interfere [1] 223:17
 interfering [1] 339:11
 interferons [2] 67:18, 21
 interject [5] 152:1; 178:22; 197:22; 300:15; 313:10
 intermingle [1] 216:8
 internal [4] 7:8; 57:18; 140:12; 339:8
 International [3] 48:9; 219:3; 243:8
 international [5] 57:16; 67:8; 189:5, 8; 243:9
 Internet [1] 107:7
 internist [2] 70:21; 101:13
 internists [1] 73:21
 interpret [10] 37:22; 38:1; 65:7, 15; 125:21; 126:2, 9; 286:13; 344:8; 346:6
 interpretation [19] 54:16; 56:14, 20; 59:15; 64:18, 22; 65:4; 72:7, 8; 80:8; 86:17; 89:3; 143:8; 198:5, 7; 292:13; 298:1; 303:11; 343:15
 interpretations [2] 56:19; 233:6
 interpreted [8] 62:20; 72:10; 116:8, 12; 239:14; 250:19; 301:21; 343:18
 interpreters [1] 343:20
 interpreting [2] 115:11; 323:16
 interspecies [2] 125:5; 266:20
 interuterine [1] 235:16
 interval [3] 82:6; 115:4; 191:20
 intervals [3] 312:8; 313:5; 316:11

interviewed [1] 74:8
 intricate [1] 26:11
 intriguing [1] 154:21
 intrinsic [1] 247:12
 introduce [3] 10:1; 18:11; 85:9
 introduced [3] 16:9; 39:2; 332:21
 introduction [4] 19:18; 21:10; 24:22; 306:2
 introductions [1] 10:8
 introductory [3] 34:19; 50:22; 304:14
 invariably [2] 81:18; 82:15
 invitation [1] 245:15
 invited [1] 208:4
 involve [3] 5:8; 13:1; 328:22
 involved [13] 16:17; 34:15; 65:20; 71:9; 94:9; 102:13; 103:11; 169:13; 190:6; 191:5; 207:21; 303:7; 338:9
 involvement [2] 5:12, 16
 involving [2] 13:7; 14:21
 iron [1] 30:5
 irrelevant [1] 231:16
 irrevocably [1] 333:16
 issues [23] 4:14, 20; 11:13; 13:7; 39:14; 91:12; 123:2; 125:12; 127:1; 151:4; 161:7; 174:15; 175:12; 183:22; 184:10; 190:6; 194:6; 205:12; 290:3, 4, 5; 293:20; 321:8
 item [2] 52:19; 194:7
 items [1] 36:3
 IV [2] 18:14; 54:2

- J -

Jacobs [1] 66:5
 Jan [1] 7:11
 Janet [2] 10:22; 49:16
 January [2] 112:18; 286:10
 Japan [1] 48:10
 Japanese [1] 67:11
 jargon [1] 288:9
 Jim [13] 7:3; 66:4; 107:15, 18, 20; 118:2, 3; 154:15; 178:4; 187:21; 286:2; 310:13; 329:14
 job [9] 16:2; 44:1; 46:12; 97:17; 98:13; 129:7; 261:7; 338:1
 Joe [5] 44:22; 66:3; 120:19; 159:11; 277:15
 John [8] 10:3, 6; 22:7, 11; 31:14; 40:17; 69:7; 70:19
 Johnson [1] 71:1
 joked [1] 146:8
 JONES [11] 9:12; 125:9; 167:15; 293:20; 294:22; 314:14, 17; 315:12; 326:5; 328:12, 14
 Jones [9] 9:12; 125:9; 155:6; 167:15; 187:21; 230:11; 235:2; 293:10; 303:15
 Joseph [5] 7:19; 120:22; 172:13; 200:21; 223:15
 Journal [2] 80:15; 81:10
 journals [1] 230:4
 judge [2] 58:5; 251:15
 judging [1] 305:3
 judgment [4] 137:22; 302:6;

314:9; 339:11
 judgments [2] 38:19; 338:10
 Julia [1] 287:19
 jump [2] 226:10; 331:19
 June [1] 69:13
 justification [1] 190:11
 justify [2] 123:12; 136:22
 juvenile [2] 205:2, 9

- K -

Kalet [1] 73:19
 Karen [5] 7:7; 102:4; 147:12; 181:5; 339:16
 Katherine [1] 9:6
 Kathryn [1] 160:22
 Kathy [3] 66:13; 104:19; 170:10
 keenly [1] 156:18
 keep [10] 26:8; 70:16; 98:22; 103:19; 133:21; 214:15; 281:16; 290:21; 300:5; 347:4
 keeping [5] 111:1; 129:7; 156:1, 16; 213:19
 Ken [5] 9:12; 125:9; 167:15; 303:14; 311:22
 kept [2] 154:18; 289:2
 key [7] 26:7; 124:8, 21; 213:16; 278:21; 321:3; 324:1
 kicking [1] 147:9
 kidding [1] 197:17
 kidney [2] 336:8, 9
 kids [1] 109:6
 kill [1] 231:17
 Kimberly [2] 4:8; 348:20
 kinds [20] 11:1; 16:1; 66:18; 68:8; 136:10; 158:12; 187:7; 193:22; 205:17; 231:7; 279:1; 291:14; 296:15; 299:2; 311:11; 315:10; 321:9; 337:17; 338:10; 346:20
 Klaus [1] 261:12
 knowing [3] 41:14; 188:8; 220:6
 knowledge [7] 14:14; 29:9; 47:11; 88:20; 187:6; 212:20; 214:22
 knowledgeable [1] 235:5
 Koren [5] 21:5; 87:11; 88:9; 92:6; 104:6
 Kweder [22] 7:14; 16:9; 18:10; 54:2, 9; 55:8; 58:17; 103:13; 110:12; 111:10, 15; 115:15; 127:9; 201:7; 238:20; 262:19; 268:6; 273:20; 274:6; 297:1; 340:9; 347:3

- L -

La [1] 243:7
 lab [1] 37:19
 Label [1] 23:4
 labeled [4] 61:21; 78:10; 88:9; 200:1
 labeler [1] 310:7
 Labeling [13] 7:18; 21:15, 21; 28:18; 35:8; 45:5; 54:10, 14, 20; 55:4, 6, 21; 64:12
 Labels [1] 238:1
 labels [32] 23:6; 33:11; 39:15; 41:19; 52:2; 58:9; 110:15, 21; 120:18; 130:14, 15, 20; 141:3;

151:11; 156:16; 164:6; 165:7; 166:11, 12, 13; 171:13; 174:21; 176:8; 187:14; 196:7; 213:12; 245:3, 5; 268:13; 312:18; 315:2; 342:11
 labor [8] 30:9; 104:1; 222:6; 227:9; 243:22; 296:2, 4, 5
 laboratory [4] 121:9; 235:3; 251:17; 325:16
 lack [6] 15:14; 89:17; 132:5; 184:11; 279:14; 335:7
 lacking [1] 30:19
 lactating [1] 14:5
 Lactation [2] 8:10; 255:3
 lactation [21] 63:4; 133:7; 140:11; 157:12; 210:11; 219:12, 17, 22; 221:6, 12, 21; 222:6; 225:13; 226:9; 227:10; 240:21; 243:10, 12; 244:14; 256:3; 294:13
 lady [1] 206:10
 lag [1] 225:19
 laid [1] 218:7
 language [21] 44:2, 4; 51:17; 52:5; 95:13; 136:15, 16; 147:4; 151:14; 152:4; 166:4, 14; 250:9; 269:12; 270:6; 271:14; 279:21; 288:7; 292:10; 342:10
 languages [1] 270:3
 large [29] 7:9; 8:2; 17:9; 76:11; 87:17; 88:16; 93:10, 12; 108:20; 119:5, 19; 161:13; 199:1; 218:9; 220:1, 19; 221:19; 231:8; 239:15; 259:12; 261:22; 262:2, 7; 280:22; 284:8; 286:19; 303:5; 343:18
 larger [1] 217:4
 last [20] 30:3; 65:18; 73:17; 97:22; 133:7; 139:17; 158:19; 160:1; 167:16, 17; 168:8; 175:18; 208:18; 218:19; 225:4; 257:6; 259:16; 261:1; 323:4; 328:2
 lasted [1] 162:5
 lasting [1] 327:16
 late [6] 137:15; 139:5; 145:12; 155:10; 205:14; 340:14
 latter [1] 137:6
 laugh [1] 176:19
 laughing [1] 44:22
 launch [1] 275:20
 law [9] 22:22; 23:3; 26:20, 21; 111:18; 112:2, 8, 13; 166:8
 laws [2] 23:22; 24:7
 lawsuits [1] 166:7
 lawyers [5] 133:20; 144:8, 11; 166:12; 277:16
 lay [2] 20:2; 310:19
 laypersons [2] 344:6; 346:5
 lead [4] 81:8; 206:9; 207:15; 283:20
 leading [3] 19:12; 202:9; 216:9
 leads [5] 132:7; 180:8; 202:6; 212:4; 298:13
 League [2] 90:21; 243:8
 learn [5] 13:11; 234:6; 238:5; 317:4; 344:18
 learned [2] 12:1; 49:2
 learning [2] 225:17; 317:11
 leave [7] 19:1; 111:4, 19;

209:15; 280:5; 291:2; 334:14
leaves [2] 172:6; 183:13
leaving [2] 172:5; 180:20
Leche [1] 243:8
lefthand [1] 162:11
legal [4] 26:10; 34:3; 248:12; 269:11
LEMONS [11] 7:3; 107:16, 20; 118:3; 119:3; 154:15; 178:3; 286:3; 310:14; 321:15; 339:19
Lemons [5] 7:3; 107:20; 118:3; 154:15; 178:4
length [1] 273:15
lengthy [1] 218:6
lesions [1] 106:8
lesser [1] 330:1
lesson [2] 317:9, 14
lessons [1] 317:2
lethal [2] 116:5, 6
letter [6] 22:21; 37:16; 38:10, 21; 50:22; 111:17
letters [2] 29:16; 111:22
Leural [2] 165:17; 301:15
level [44] 63:13; 64:4; 70:10; 77:4; 81:5; 101:3; 174:12; 199:9; 215:6; 217:11; 231:21, 22; 232:1, 3, 5, 12; 239:20, 21, 22; 240:7; 257:9; 262:16; 285:10; 293:1; 294:19; 298:19; 302:8, 13, 14; 308:9, 14; 309:9; 310:5; 312:14; 320:6; 321:4; 322:19; 323:16, 18, 19; 324:2, 7, 21
levels [22] 96:8; 123:14; 125:2; 134:15; 169:10; 171:3, 4; 172:10; 173:16; 180:18; 183:12; 202:2; 240:16; 253:1, 2, 4; 266:6; 308:22; 319:20; 325:8, 10
LFTs [1] 152:7
liability [3] 34:3; 43:19; 302:1
liberal [2] 204:18; 285:3
licensed [2] 26:1, 2
lien [1] 15:2
lies [1] 73:13
life [11] 13:21; 135:15; 136:8; 168:17; 225:2, 5; 264:14; 299:21; 337:13; 348:1
light [3] 166:16
liked [3] 38:7; 166:14; 168:1
likelihood [2] 185:18; 186:6
Likewise [1] 282:22
limb [2] 232:19; 346:4
limited [15] 65:10; 196:12; 253:18; 254:4; 258:22; 259:7; 261:22; 262:5, 6; 271:2, 3; 275:18; 329:17; 330:14; 341:9
limiting [1] 140:2
line [11] 33:6; 133:21; 150:18; 166:15; 167:11; 230:19; 233:18; 284:2; 339:15; 341:19
lines [4] 10:16; 12:14; 293:11; 339:11
lingo [3] 22:14; 237:21; 344:20
link [2] 26:11; 345:12
Lippman-Hand [1] 114:20
list [3] 11:18; 154:7; 163:2
listed [8] 27:10; 35:19; 72:16; 81:19, 22; 82:11; 91:1; 107:12

Listen [1] 98:15
listen [2] 107:9; 326:5
listened [1] 337:10
literature [10] 41:17; 49:15; 100:14; 120:4; 142:2; 156:8; 298:17, 18; 299:5, 10
lively [1] 205:22
liver [6] 148:15, 19; 178:17; 299:2, 11, 17
local [2] 99:17, 20
localized [2] 75:5; 77:21
locate [1] 297:18
logic [1] 152:9
logistics [2] 188:22; 189:17
longest [1] 128:17
looks [4] 38:12; 60:14; 121:3; 197:11
loss [2] 71:19, 20
lost [1] 171:5
lots [4] 22:14; 25:13; 98:11; 175:13
love [1] 101:10
low [13] 61:13; 69:2, 5; 70:13; 75:1; 122:12, 20; 123:2; 174:12; 308:22; 309:17; 310:8; 343:15
lower [1] 97:17
lowering [1] 191:12
lowest [1] 294:19
lucid [1] 129:6
lump [2] 100:11; 306:7
LUMPKIN [1] 10:10
Lumpkin [3] 10:9, 11; 21:21
lumps [1] 172:18
lunch [1] 206:2
lung [2] 80:19; 95:16

- M -

Mac [3] 20:1; 21:21; 34:18
magnified [1] 298:15
magnitude [4] 116:9; 312:20; 314:10; 315:9
magnitudes [1] 313:22
Mahoney [2] 10:3; 22:7
main [4] 89:13; 209:18; 255:2; 346:16
mainly [1] 248:18
maintaining [2] 221:22; 336:8
maintenance [2] 165:22; 301:20
major [15] 22:7; 35:11; 74:17; 75:21; 78:8, 12; 79:5; 95:8; 125:12, 19; 127:1; 220:16; 236:6; 245:3; 278:6
majority [6] 126:5; 162:1; 179:16; 196:20; 197:1; 319:8
makers [2] 208:15
male [4] 262:21; 265:1, 6; 311:7
Malenka [1] 83:14
males [4] 14:1; 264:20; 265:9, 12
malformation [3] 94:21; 232:15; 325:9
malformations [12] 139:1; 232:13, 16; 235:13, 19; 236:6; 237:1; 240:14; 241:6; 242:1; 325:4; 335:10
malformed [4] 153:13; 241:3, 4, 19

malformities [2] 250:17; 253:9
malignancy [2] 231:3; 337:13
Mallard [2] 222:18; 223:1
man [2] 108:8, 10
manage [2] 165:2; 175:2
managed [3] 189:19; 190:5; 195:20
Management [2] 7:21; 54:2
manager [1] 133:20
managing [2] 138:1; 172:10
mandate [1] 114:6
mandatory [1] 264:6
manifestation [1] 90:6
manifestations [1] 251:19
mankind [1] 224:16
manner [3] 62:19; 67:22; 161:15
manufacture [1] 227:5
manufacturer [2] 223:9; 284:5
manufacturers [3] 141:5; 227:4; 228:15
march [1] 293:4
Mark [1] 66:5
marked [1] 29:16
marker [1] 75:2
market [12] 25:7; 31:1; 46:18; 112:20; 128:17; 132:6; 188:15; 198:10; 220:10; 246:9; 253:13, 15
marketed [7] 26:19; 33:13; 48:17; 126:5; 184:13, 17; 201:10
Marketing [1] 161:1
marketing [7] 25:6, 11; 26:2; 186:5; 247:10, 12; 313:14
markets [1] 267:16
marvelous [1] 10:19
Mary [5] 9:3; 66:7; 127:8; 189:4; 296:9
Massachusetts [2] 4:5; 6:14
Masur [1] 84:4
material [1] 317:10
Maternal [4] 219:6; 227:17; 229:4, 11
maternal [22] 6:20; 39:13, 14, 16, 18; 40:10, 12; 202:22; 203:4; 228:6; 231:15; 233:2; 290:12; 295:19; 297:16, 19, 22; 298:5, 12; 318:9; 320:21; 340:7
maternalism [1] 98:21
maternally [2] 116:20; 298:1
math [1] 225:21
mathematician [2] 8:15; 310:10
matrix [1] 275:6
matter [6] 5:2; 77:11; 129:10; 206:11; 274:2; 349:12
maturation [1] 224:9
maximally [1] 131:15
maximum [2] 115:5; 116:10
McCann [1] 223:6
McNeil [1] 80:15
McNerney [1] 66:7
MD [1] 161:20
MEA [1] 249:2
mea [1] 329:10
meaning [4] 104:5; 143:8; 212:3; 213:2

meaningful [5] 77:4; 101:8; 119:21; 302:10; 347:13
means [16] 7:16; 23:4; 25:3; 95:10; 109:15; 112:8; 115:12; 130:20; 161:10; 179:11; 215:6; 256:10; 263:16; 269:15; 301:6; 331:6
meant [2] 82:17; 295:20
measure [2] 75:20; 273:10
measured [1] 68:16
mechanics [1] 12:17
mechanism [6] 121:2, 4; 160:13; 241:14; 333:19; 335:17
mechanistic [1] 337:6
mechanistically [1] 336:22
media [7] 12:18; 13:1, 4; 88:7, 11; 106:17; 285:16
medians [1] 81:21
mediated [1] 262:21
Medical [11] 6:21; 7:5; 8:2, 7; 70:21; 85:19; 143:15; 174:2; 184:19; 249:1; 261:14
medical [33] 7:10; 8:3; 19:4, 6; 26:7; 41:16; 47:1; 49:14; 71:4, 9; 73:15; 79:12; 95:5; 98:17; 120:4; 146:3; 177:11; 181:22; 182:16; 188:3, 21; 207:19; 210:1, 3; 212:1; 229:21; 245:4; 248:1; 281:14; 283:9; 288:8; 289:5; 337:19
medication [11] 83:18; 106:20; 107:11; 110:2; 193:11; 200:11; 231:9; 243:21; 290:16; 340:6; 346:22
medications [6] 83:19; 127:12; 150:4; 170:14; 174:6; 332:2
Medicinal [2] 245:19, 21
medicinal [3] 247:15; 255:11; 256:1
Medicine [3] 81:10; 225:8; 238:14
medicine [15] 6:20; 7:8, 9; 15:19; 27:8; 34:22; 96:20; 100:19; 101:16; 176:3, 4; 181:18; 200:11; 282:14; 317:19
Medicines [1] 245:16
medium [7] 12:20; 61:13; 69:2, 5; 70:13; 309:17; 310:8
meds [3] 290:7; 318:14, 15
MedWatch [1] 46:19
meet [1] 330:14
meeting [25] 4:9, 15, 16, 18; 5:3; 11:5; 17:3; 18:5, 9; 22:5; 28:2; 36:10; 40:18; 69:13; 207:4; 225:7; 226:1; 230:7; 238:14; 274:14; 275:16; 288:19; 330:22; 331:3
meetings [3] 57:16; 227:15; 260:5
meets [1] 48:8
member [8] 243:8; 269:9; 332:5, 16; 334:16
members [15] 6:11; 18:6; 21:5; 35:9; 66:2, 6; 129:6; 187:22; 238:5; 247:5; 262:17; 332:7, 12, 18; 334:10
membership [1] 207:22
Memorial [1] 8:7

men [7] 14:4; 75:4; 77:21;
100:15; 103:3; 228:15; 311:5
mention [6] 21:4; 103:2;
255:5; 269:5, 10; 311:22
mentioned [15] 21:22; 48:20;
129:19; 132:4; 155:21; 169:14;
199:8; 234:8; 248:4; 254:22;
258:3; 259:14, 15; 297:12;
301:9
merge [1] 133:7
merged [1] 168:14
merit [1] 279:7
merits [1] 330:7
message [12] 12:16; 13:5, 11,
12, 16, 17, 20; 48:22; 105:12;
109:1; 347:9
messages [1] 42:17
messengers [1] 224:15
meta [2] 220:21; 305:7
metabolism [6] 63:18, 21;
170:18; 202:8; 204:19, 20
metabolites [2] 204:21; 256:5
metabolize [1] 193:18
method [7] 6:6; 58:5; 92:14;
118:11; 142:1; 231:12; 316:18
methodology [1] 234:7
methods [1] 233:22
methotrexate [2] 231:3, 4
meticulous [1] 201:8
MEYER [15] 245:14; 262:3,
15; 263:7, 12, 14, 20; 264:3;
265:3, 14; 266:9; 268:18;
269:4; 271:10; 273:11
Meyer [4] 245:12, 15; 261:19;
285:1
mice [1] 232:22
microphones [1] 5:21
middle [5] 61:1; 135:17;
136:8; 228:13; 309:7
midwives [2] 227:20, 21
migration [2] 224:9, 20
Mike [13] 4:4; 6:13; 10:1;
114:13; 146:5; 184:8; 191:14;
300:15; 303:1; 312:3; 314:14;
326:2; 328:12
mike [2] 6:1; 116:15
mild [2] 85:20; 108:9
milk [2] 244:21; 256:5
million [1] 197:8
mind [8] 26:8; 35:7; 103:20;
111:1; 123:7; 186:1; 275:22;
300:5
minds [3] 134:18; 214:9;
292:7
mine [1] 180:3
mini-poll [1] 281:13
minimalistic [1] 178:6
minimalize [1] 108:15
minimally [1] 251:21
minimum [3] 118:20; 251:15;
334:4
minute [4] 114:16; 139:18;
167:20; 314:15
minutes [3] 16:9; 223:5;
273:22
misapplied [1] 38:20
miscalibration [2] 86:20;
88:18
misconnections [1] 223:19
misinformation [2] 88:11;
229:22

misinterpret [1] 344:6
misabeled [1] 237:22
mislead [1] 157:4
misleading [3] 229:20;
249:22; 280:20
misperception [1] 92:7
miss [1] 327:4
missed [1] 152:5
missing [4] 112:3, 4; 295:15;
345:12
mistake [1] 163:15
MITCHELL [24] 9:18; 111:7,
16; 113:7; 114:4, 9, 12;
151:22; 152:3; 178:21; 179:2;
197:21; 198:3; 300:15, 17, 20;
305:6; 313:10, 12; 331:19, 21;
333:4; 334:19; 335:14
Mitchell [7] 9:16, 18; 111:5;
151:22; 178:21; 197:21; 328:6
mock-ups [1] 218:8
mode [1] 23:18
model [13] 44:13, 16, 20;
51:3; 68:2; 113:14; 121:15;
155:13; 204:13; 205:9; 316:9
models [14] 57:7; 66:15, 21;
67:4, 12, 16, 20; 68:10;
204:16, 18; 205:3; 290:19;
347:20
moderate [1] 260:17
modern [2] 11:19; 13:7
modification [1] 64:4
modify [1] 156:10
molecule [1] 334:1
Mom [1] 295:22
moment [3] 60:6; 69:7; 214:1
moments [1] 63:13
Moms [2] 60:18; 243:16
moms [1] 244:4
money [3] 149:17; 155:9;
239:3
monitor [6] 147:22; 148:2;
156:10; 181:20; 267:10;
286:18
monitored [4] 137:8, 18;
147:17; 165:15
monitoring [12] 144:2;
148:10, 14, 15, 19, 21; 149:14;
152:6, 12, 13; 180:13; 266:5
monkey [1] 126:13
monographs [1] 142:16
Montella [1] 28:8
month [5] 69:13; 145:17;
317:18; 331:1
months [7] 16:6; 131:8, 9;
137:6; 174:13; 276:13; 277:8
morning [35] 4:3; 10:10;
19:22; 44:18; 51:4; 53:21;
70:19; 71:14; 72:17; 77:1;
99:8; 100:4; 127:4; 129:5, 18;
146:21; 160:21; 163:19;
184:11; 201:18; 209:4; 210:7,
20; 212:6; 214:18; 215:10;
217:21; 243:13; 265:22;
267:16; 275:10; 276:19;
287:22; 290:6; 312:8
MORSE [8] 53:21; 66:20;
68:12; 69:6; 116:13, 17;
118:15; 121:21
Morse [12] 47:22; 53:18, 19,
22; 70:16; 115:15, 17; 120:20;
127:4; 201:17; 297:12; 331:6

mortality [4] 63:6; 91:9, 11;
139:6
mostly [2] 73:21; 344:21
mother [14] 14:12; 39:18;
40:2; 102:11; 105:12; 135:16;
222:11; 223:4, 14; 227:14;
236:5; 320:12, 13; 346:20
Mothers [1] 244:10
mothers [5] 116:1, 7; 139:3;
208:9; 245:2
mouse [1] 155:9
mouth [2] 232:19, 21
move [13] 10:8; 20:22; 45:4;
51:9; 68:2; 70:16; 158:20;
160:19; 168:20; 245:11;
290:19; 323:4; 328:2
moved [1] 214:14
moving [2] 54:8; 147:3
MS [22] 4:11; 6:16; 100:6, 11;
160:2; 191:6; 206:3; 207:9;
218:19; 243:5; 287:19; 305:13;
311:3; 320:7; 321:11; 335:9;
340:4; 341:16; 343:2; 344:13;
345:4; 348:22
Ms [1] 287:18
mugs [1] 23:11
Multi-Center [1] 55:4
multi-disciplinary [1] 133:17
multi-factorial [1] 54:10
multiple [7] 59:14; 101:6;
121:4; 173:3; 240:3, 6; 262:1
multiples [1] 241:7
multiplicities [1] 117:17
multiplicity [1] 117:19
municipal [2] 8:2; 193:2
Murray [1] 10:11
mutual [1] 61:2
myelination [1] 224:10
myocardial [1] 77:7
myriad [2] 15:1; 150:14
myself [6] 47:21; 66:5; 97:16;
153:2; 189:16; 196:18

- N -

Nakao [1] 81:9
name [20] 4:4; 6:13, 16, 22;
8:14; 9:12; 10:11; 53:21;
70:20; 89:5; 98:4; 160:21;
195:18; 224:2; 237:22; 257:2,
3, 7, 20; 259:18
naming [1] 196:14
narrative [6] 42:20; 151:7;
250:5, 8; 270:13, 16
narratives [1] 120:10
narrowing [1] 161:14
nation [2] 243:12; 244:15
National [6] 70:21; 207:10;
219:5; 224:12; 237:19; 243:6
national [3] 57:16; 246:10;
290:20
natural [1] 109:11
naturally [1] 20:20
nature [8] 32:15; 61:19; 93:7;
124:12; 250:6; 258:1; 271:4;
324:4
Navy [1] 8:16
NDA [1] 231:20
Nebraska [1] 6:18
necessity [2] 263:15; 337:16
neck [1] 341:19
needs [22] 35:17; 42:5; 43:2;
45:6; 52:12; 93:1; 129:3;
134:16; 137:22; 150:1; 151:13;
182:9; 192:16; 238:10; 293:16;
300:22; 301:2; 303:9; 313:19;
316:16; 320:11; 330:15
Negative [1] 62:17
negative [16] 62:15; 121:17;
152:15; 250:16, 21; 251:4, 7;
252:1, 3, 9; 259:8; 271:4;
296:14, 22; 331:8; 346:14
neonatal [4] 139:6; 205:12;
295:16; 299:21
neonate [1] 300:4
nerve [3] 223:18; 224:7, 15
nervous [4] 68:14, 18; 224:8;
283:18
Network [4] 207:11, 12;
217:22; 219:5
neural [5] 103:22; 297:9;
306:11; 307:9; 315:7
neurobehavioral [1] 139:1
neurodevelopmental [3]
295:13; 326:18, 22
neurologic [2] 223:3; 226:4
Neurological [1] 224:13
neuronal [1] 224:9
neurons [1] 224:20
neutral [1] 344:9
newborn [6] 7:4; 226:15;
257:22; 259:19; 295:17;
335:12
newer [1] 108:17
news [1] 87:22
newspaper [1] 165:5
nice [11] 33:13; 37:14; 71:2;
89:8; 98:3; 107:16, 21; 146:9;
154:16; 270:11; 349:5
nicely [5] 37:18; 92:3; 99:14;
270:15; 342:4
nicer [1] 321:12
nickel [1] 282:5
night [1] 228:13
nightmare [1] 192:6
NIH [2] 186:20; 238:15
nine [2] 174:12; 281:19
NNT [1] 85:14
no-effect [2] 231:21, 22
Noah [1] 133:18
Nobody [1] 163:14
nobody [2] 264:19; 319:17
noddling [1] 323:2
non-academicians [1] 320:5
non-human [1] 203:18
non-pregnant [2] 173:17;
298:21
non-reproductive [1] 32:17
non-rodent [1] 251:3
nonclinical [8] 54:22; 55:8,
11, 20; 56:1; 58:6, 13; 62:14
nonprofit [1] 207:13
nonspecialists [1] 247:21
nonteratogen [1] 233:20
Noon [1] 205:20
norm [1] 32:22
normal [4] 222:14; 224:21;
236:10; 242:8
normally [2] 122:1; 325:22
North [4] 9:5; 127:8; 187:19;
188:2
northeast [1] 162:2

note [3] 161:11; 206:3; 262:9
 noted [3] 5:13; 221:9; 223:1
 notes [1] 347:8
 noticed [1] 251:10
 noticing [1] 244:12
 noting [1] 156:15
 notion [3] 115:20; 159:2;
 325:21
 notions [1] 72:1
 notoriety [3] 87:11; 88:11;
 94:17
 notwithstanding [1] 302:4
 novel [1] 195:10
 nowadays [1] 197:5
 nuclear [3] 89:20; 90:22
 Number [3] 73:6; 215:19;
 230:15
 numbers [23] 76:7; 98:11, 13,
 18; 99:3; 100:16; 121:11;
 142:10, 18; 204:6; 215:3;
 233:9, 17, 21; 254:2; 270:19;
 303:5; 307:17; 311:8; 312:20;
 314:21; 317:21
 numerator [2] 115:3; 151:19
 numerators [3] 114:19; 115:1;
 313:8
 numeric [1] 307:1
 numerical [1] 84:12
 numerous [1] 119:7
 nurse [3] 43:6; 183:18; 243:9
 nurses [1] 220:14
 nutrition [1] 243:15

- O -

O'LOUGHLIN [10] 8:14;
 68:20; 152:19; 195:16; 264:18;
 265:5; 292:17; 309:15; 310:12;
 343:13
 O'Loughlin [4] 8:15; 68:20;
 152:19; 195:16
 OB [1] 6:20
 OB-GYNs [6] 162:3; 166:1, 3,
 9, 18, 19
 obese [1] 93:20
 object [1] 184:4
 objective [2] 89:2; 197:18
 objectively [1] 286:7
 objectives [6] 20:12; 22:5;
 50:21; 58:4; 248:22; 249:3
 obligation [1] 179:9
 obligations [1] 26:20
 obligatory [1] 156:8
 observable [1] 298:13
 observation [2] 9:2; 346:2
 observational [2] 186:12;
 328:21
 observations [1] 102:3
 observed [1] 241:20
 observers [1] 305:9
 obstacle [1] 190:16
 obstacles [1] 196:6
 obstetric [5] 137:4; 220:8, 13;
 225:16; 227:13
 obstetrician [9] 6:14; 172:6,
 7; 181:13, 14; 182:21; 230:18;
 234:11; 293:18
 obstetricians [2] 168:3;
 281:18
 Obstetrics [1] 161:21
 obstetrics [3] 8:4, 9; 221:12

obtain [1] 254:13
 obtained [1] 240:1
 obtaining [1] 172:10
 obvious [2] 39:11; 348:9
 Obviously [6] 17:14; 19:5;
 64:1; 140:15; 313:4; 315:12
 obviously [10] 11:7, 11;
 67:12; 78:12; 108:9, 17;
 134:10; 167:16, 17; 178:5
 occasionally [1] 27:4
 occasions [1] 249:1
 occult [1] 101:20
 occur [10] 75:11; 97:19;
 122:15; 124:7, 14; 210:17;
 213:6; 232:22; 321:22
 occurred [7] 17:13; 29:12;
 40:20; 160:16; 187:6; 242:5;
 346:17
 occurrence [1] 72:3
 occurring [2] 228:7; 297:21
 occurs [3] 75:15; 173:14;
 295:16
 Ocean [1] 249:21
 ODE [1] 54:2
 off-label [1] 321:19
 offended [1] 230:17
 offer [3] 99:15; 113:20;
 283:21
 offered [3] 74:14; 228:16, 20
 Office [6] 5:6; 7:15, 21; 18:14;
 54:1; 184:19
 office [5] 10:4; 18:15; 19:17;
 77:1; 281:8
 officers [1] 47:2
 official [2] 23:7, 17
 officially [1] 4:7
 offspring [9] 39:17; 60:16;
 117:2, 6; 222:21; 226:7; 227:2;
 290:21; 298:13
 oftentimes [3] 71:11; 99:4;
 335:6
 Oh [11] 66:13; 107:20; 127:7;
 170:10; 193:2; 216:18; 277:12;
 300:16, 20; 334:19; 335:14
 oh [5] 42:1; 49:21; 99:10;
 191:8; 232:14
 Okay [18] 22:10; 52:9; 53:7;
 89:21; 91:2; 93:1; 111:12;
 114:9; 160:18; 176:19; 245:10;
 263:13, 18, 21; 264:17;
 284:17; 316:3; 328:1
 okay [11] 20:22; 52:9; 128:22;
 147:18; 166:19; 167:6; 272:5;
 286:16; 300:20
 old [4] 153:21; 213:19; 216:8;
 332:11
 Olejniczak [1] 261:13
 Omaha [1] 6:18
 omitted [1] 169:18
 one-on-one [1] 213:7
 one-sentence [1] 230:18
 one-time [1] 105:20
 ones [5] 79:5; 253:4; 281:19;
 297:8, 9
 ongoing [2] 156:6; 275:13
 onycholysis [1] 339:2
 onychomycosis [1] 339:2
 open [5] 100:3; 158:2; 168:13;
 218:21; 307:19
 opened [1] 215:10
 operational [1] 346:11

opinion [6] 69:12; 170:2;
 208:14; 269:1, 2; 274:18
 opinions [3] 163:1; 294:17, 18
 opportunity [7] 130:21;
 182:1, 11; 188:13; 207:5;
 209:2; 229:6
 oppose [1] 291:22
 opposed [6] 284:18; 285:22;
 288:8; 323:1; 329:4; 330:7
 opposite [1] 166:2
 opposites [1] 269:21
 optimal [2] 105:3; 178:6
 option [2] 22:22; 147:10
 options [1] 190:9
 oral [6] 36:21; 197:3, 5, 9;
 198:19; 229:15
 order [16] 4:8; 6:3; 68:1;
 93:10, 15; 101:7; 118:21;
 119:4, 7, 10; 129:14; 214:20;
 250:10; 271:9; 280:9, 10
 orderly [3] 6:7; 37:16, 17
 orders [1] 116:9
 ordinary [1] 236:19
 Oreli [1] 191:9
 organ [4] 33:5; 266:20, 22
 organisms [1] 68:15
 organization [7] 52:2; 134:9;
 187:19; 188:9; 189:2; 211:10
 organizational [1] 208:14
 organizationally [1] 157:16
 organizations [5] 36:20;
 190:6; 208:1; 287:4; 288:21
 organize [2] 58:7; 134:3
 organizes [1] 270:15
 organogenesis [1] 219:18
 original [4] 40:14; 247:17;
 270:5; 299:1
 originally [1] 169:14
 orphans [1] 127:14
 ossification [4] 344:15;
 345:5; 346:2, 3
 OTIS [1] 189:2
 ought [9] 120:17; 152:12;
 193:20; 301:10; 302:12, 21;
 303:11; 321:6; 342:6
 ourselves [5] 17:8; 33:1;
 197:17; 260:3; 275:18
 outcome [33] 58:12; 72:2;
 73:1; 75:11; 76:2, 20; 77:11;
 83:4; 85:17; 90:3; 94:17, 19;
 95:9; 97:11; 103:11; 117:2, 4,
 6, 11; 124:3, 5; 149:14, 17;
 152:10; 227:7; 228:6; 262:22;
 272:2; 273:6, 16; 324:17;
 326:22
 outcomes [30] 40:7; 66:18;
 68:9; 77:13; 80:17, 20; 81:2;
 83:2, 18; 85:5; 87:21; 93:18;
 95:5; 99:3; 158:12; 174:18;
 180:6; 202:19, 20; 220:19;
 241:18; 249:6, 7; 273:5, 9, 12;
 296:17; 303:19; 326:16, 21
 outdated [3] 128:2; 145:4;
 192:3
 outline [1] 175:1
 outlined [1] 51:3
 outlines [1] 175:22
 outside [6] 45:11; 47:8;
 50:18; 122:8; 190:1; 206:10
 outweigh [2] 31:17; 32:2
 over-the-counter [1] 200:15

Overall [1] 292:16
 overall [5] 36:15; 70:10;
 139:10; 162:22; 201:5
 overcome [2] 97:8; 323:9
 overconfidence [1] 88:19
 overdue [1] 288:3
 overestimate [3] 87:20; 88:5;
 96:19
 overestimates [1] 87:10
 overestimation [1] 88:15
 overhead [1] 16:15
 overheads [1] 16:14
 overlap [1] 193:16
 overlapping [1] 140:17
 overly [3] 38:9; 130:7; 249:22
 overnight [2] 238:13; 288:11
 override [2] 30:14; 69:21
 overrule [1] 70:5
 oversee [2] 25:3; 46:1
 oversees [2] 18:15; 54:10
 oversight [1] 18:16
 overstate [1] 304:1
 overview [1] 138:5
 overwhelming [1] 38:8
 owes [1] 225:11
 owns [1] 26:10
 oxygen [1] 222:19
 oxytocin [1] 225:10

- P -

p.m. [5] 206:12; 207:2; 274:3,
 4; 349:13
 package [19] 23:7; 57:3;
 131:12; 133:3; 146:12; 221:10,
 13, 17; 223:11; 226:12; 227:6;
 228:16, 17; 231:8; 236:21;
 285:15, 22; 292:10; 304:11
 packet [4] 21:3; 44:17; 49:7;
 120:11
 page [5] 22:16; 164:15; 247:4;
 275:18; 326:2
 pages [5] 106:21; 164:1, 11;
 218:4; 281:1
 paid-[1] 234:15
 painted [1] 333:6
 palate [2] 232:19, 20
 pan [1] 226:11
 panel [3] 129:6; 280:15;
 342:17
 pants [1] 206:10
 paper [7] 51:4; 92:6; 114:21;
 129:16; 209:3; 212:7; 214:17
 papers [2] 57:20; 209:13
 paragraph [4] 165:2; 306:1, 5,
 7
 paragraphs [1] 288:13
 parameters [1] 324:22
 parent [3] 117:4, 8, 11
 parents [1] 225:11
 Parklawn [1] 5:7
 Part [17] 12:8; 14:15; 17:13;
 24:8, 17; 35:7; 36:8, 21; 45:2;
 51:6; 64:14; 103:16; 120:3;
 172:17; 274:13; 289:7; 331:14
 part [37] 4:15; 14:16; 17:14;
 32:21; 35:5; 54:1; 73:14; 79:9;
 88:7; 96:15; 116:21; 169:8;
 184:3; 187:13; 192:4; 200:12,
 20, 21; 201:5; 202:10; 216:6;
 247:12; 249:10; 261:6; 281:22;

284:8; 289:5; 294:8, 10;
311:14; 318:17; 321:22;
323:21; 337:15;
338:15, 17; 339:6
partial [1] 238:2
participant [3] 5:10; 163:9, 12
Participants [1] 162:7
participants [9] 4:19; 5:11,
14; 162:1; 163:17; 164:5, 22;
166:22; 167:3
participate [3] 195:14; 209:2;
264:13
participated [2] 36:20; 262:17
participating [1] 9:16
participation [1] 347:6
parties [4] 65:5; 175:14;
261:10, 11
partly [1] 288:14
partner [1] 102:12
partnership [1] 213:16
partnerships [1] 50:17
parts [6] 22:7; 157:21; 256:15;
294:4, 14; 322:17
parturition [2] 63:4; 240:20
passes [1] 75:8
passive [1] 38:18
Pat [4] 159:20; 285:5; 323:5;
340:19
paternalism [1] 98:21
pathologies [1] 336:9
pathology [2] 248:15; 336:12
Patients [3] 82:11; 93:18;
235:10
Patrick [6] 6:22; 123:4;
150:10; 155:2; 307:21; 328:10
patterns [1] 222:1
Paul [2] 66:2; 89:5
pay [5] 26:12; 43:1; 190:2;
193:7; 234:13
paying [1] 190:13
PDR [3] 23:12; 30:17; 31:8
PEARSON [1] 207:9
Pearson [2] 207:8, 10
Pediatric [1] 7:13
pediatric [4] 186:4; 194:6;
238:12, 18
pediatrician [5] 7:12; 227:13,
18; 228:4; 229:3
pediatricians [2] 227:19;
228:5
Pediatrics [3] 9:13, 19;
244:15
pediatrics [3] 7:4; 27:16;
205:4
peer [1] 176:4
peers [1] 79:12
pendulum [1] 211:15
pens [1] 23:11
People [4] 26:2; 43:2; 128:18;
340:22
perceive [3] 92:5; 100:15;
296:14
perceived [6] 33:20; 43:19;
72:10; 89:17; 117:18; 296:17
percent [37] 30:16; 31:8;
41:3; 74:12, 14; 77:6; 81:14;
82:7, 11, 12, 13, 14, 16; 83:21;
84:11, 13, 14, 16; 93:13;
96:21; 97:2, 4; 107:13; 108:6,
7; 115:4; 122:16; 178:7;
220:21; 236:5, 9; 244:8;

305:20; 306:11, 13; 316:16
percentage [3] 82:10; 83:2;
232:22
percentages [2] 81:22; 311:8
percentiles [1] 82:4
perception [9] 89:1, 14;
92:21; 108:8; 109:10; 117:17,
19, 22; 335:5
perceptions [2] 57:21; 103:15
perfect [4] 33:6; 96:22;
104:11; 106:1
perfectly [3] 123:21; 220:6;
238:6
peri [1] 75:14
perils [1] 71:4
perimenopausal [1] 194:9
Perinatal [1] 228:3
perinatal [5] 174:11; 177:10,
22; 180:22; 228:9
perinatologists [1] 221:18
period [13] 9:11; 75:14;
85:17, 22; 113:4, 18; 123:1;
198:21; 209:5; 226:22; 276:11;
278:1, 2
periodic [2] 26:21; 191:18
periodically [2] 48:17; 305:22
periods [1] 222:19
permanence [3] 72:18; 74:20;
124:16
permanent [5] 74:21; 75:2, 6;
225:4; 346:19
permission [3] 207:6; 273:20;
274:1
person [20] 4:9; 9:15; 10:2;
19:10, 16; 79:19, 20; 145:15,
17; 146:9; 153:2; 154:11;
168:4; 177:17, 18; 181:14;
207:7; 213:12; 284:4; 319:5
personal [2] 128:20, 21
personalization [2] 97:15;
98:1
persons [1] 305:12
perspective [9] 122:21;
147:14; 156:19; 159:2, 14;
212:13; 230:12; 291:4; 341:12
perspectively [1] 333:11
pertain [1] 305:3
pertains [2] 305:4; 313:8
pertinent [3] 71:5; 89:10;
132:9
pesticides [1] 90:10
Pfizer [1] 26:9
PH [1] 222:14
pharmaceutical [13] 25:13,
20; 33:18; 56:16; 65:2;
123:17; 156:4, 9; 195:5;
207:19; 230:4; 239:13; 248:3
Pharmaceuticals [1] 7:2
pharmaceuticals [2] 11:20;
13:8
pharmacist [4] 8:7; 43:6, 15;
107:10
pharmacists [1] 106:19
pharmacodynamics [4]
60:19; 63:16; 124:21; 171:21
pharmacokinetic [1] 324:19
pharmacokinetics [9] 171:14,
21; 173:10, 11; 174:4, 17;
187:2; 192:18; 232:11
pharmacologic [3] 58:15;
61:10; 64:9

pharmacological [1] 257:21
pharmacologically [2] 125:3;
309:1
pharmacologist [1] 146:17
pharmacologists [1] 133:19
Pharmacology [2] 7:20; 66:4
pharmacology [6] 177:10, 22;
180:22; 187:2; 201:7; 202:8
pharmacy [1] 8:11
pharmtox [1] 16:13
Phase [2] 14:1; 187:1
phases [1] 296:11
PhD [1] 98:17
Phen-phen [1] 95:2
Phenergan [1] 224:1
phenomenon [2] 77:9; 232:18
philosophic [1] 268:15
philosophy [7] 210:8, 9, 11,
12; 211:5; 251:22
phrase [5] 321:12; 340:4;
345:1, 8, 17
phrases [3] 311:12, 14;
344:14
phrasing [1] 344:17
physical [1] 154:1
physically [1] 154:1
physician [21] 40:15; 43:6,
15; 73:2; 77:1; 84:19; 86:7;
110:20; 161:4; 170:22; 180:5;
222:1; 236:4; 245:15; 260:12;
281:2, 7; 284:14; 292:17;
322:1; 338:11
Physicians [1] 92:17
physicians [35] 29:1; 80:9;
81:13; 82:1, 9, 13; 84:18, 21;
85:4, 7; 88:21; 93:18; 106:4,
11; 110:22; 137:21; 142:4;
147:2; 214:5; 234:9, 18; 247:7;
249:4; 250:12; 260:13; 281:4,
14, 17; 282:4; 285:7; 291:13,
18; 301:1; 302:1; 304:10
physiologic [3] 14:2, 4;
333:18
physiologically [1] 194:11
physiology [1] 170:16
pick [2] 112:18; 188:10
picked [1] 298:7
picture [5] 28:2; 35:16; 36:2;
143:10; 253:22
piece [4] 45:16; 89:9; 160:4;
244:20
pieces [3] 45:7, 10; 287:10
pig [1] 126:14
pill [1] 332:11
pilot [1] 86:11
piloted [1] 141:13
pitch [1] 115:3
pitfalls [1] 71:4
pithy [2] 135:12; 168:16
place [8] 42:11; 45:8; 140:18;
177:14, 22; 182:4; 186:2;
330:18
placenta [2] 343:4, 6
Placental [1] 342:20
placing [1] 167:12
plan [7] 113:3; 118:10; 171:2;
192:7, 8; 278:11; 293:1
planned [1] 219:1
planning [3] 20:13; 41:2;
142:8
plans [2] 184:15; 201:21

plant [1] 342:16
planted [1] 238:16
plants [1] 89:20
plasma [2] 244:21; 324:16
platelet [1] 223:11
plausibility [3] 159:18;
308:14, 20
play [1] 96:15
plea [2] 115:2; 307:4
Please [8] 6:1; 53:20; 100:5;
158:21; 170:8; 183:4; 243:4;
349:5
pleased [2] 206:3; 219:7
plug [1] 342:1
pocket [2] 37:19; 190:2
podium [2] 94:13; 111:4
poignant [1] 175:18
poised [5] 310:8, 9, 11;
93:13; 121:8, 15
points [11] 18:8; 69:1; 116:14,
17; 156:1, 15; 209:18; 223:12;
265:17; 303:13; 339:20
Policy [2] 184:19; 287:14
policy [1] 264:1
polypharmacy [1] 13:22
pooled [2] 273:7, 12
pooling [1] 273:4
poor [1] 188:20
poorly [1] 345:18
popularity [1] 83:8
population [12] 40:6; 48:15;
76:7; 92:22; 96:11; 104:13;
150:9; 161:13; 194:4; 306:12;
316:17, 18
populations [6] 48:19; 68:3;
161:8; 193:2; 194:21; 201:3
portion [2] 75:16; 318:7
posed [6] 40:10; 41:20; 84:20;
119:6; 287:2; 310:15
poses [1] 119:8
posing [1] 222:10
position [2] 54:6; 180:10
Positive [1] 250:17
positive [30] 30:12, 20; 31:4;
32:1, 22; 37:7, 10, 12; 38:3, 5;
59:20; 60:4, 7; 62:15; 63:1, 14;
115:10; 116:19; 121:17;
197:12, 13; 250:16; 252:13,
14, 15, 20; 258:12; 271:3;
331:7, 12
possibilities [4] 50:9; 82:14;
91:9; 172:4
possibility [5] 71:19; 155:11;
220:5; 266:17; 267:10
post [1] 313:14
post-marketing [1] 186:12
postnatal [1] 249:6
postpartum [1] 9:10
potent [1] 332:13
potential [40] 32:1; 87:16;
89:18, 22; 90:2; 93:8; 94:18;
104:2, 16; 109:3; 110:7, 9;
136:22; 179:17; 208:12, 16;
216:15; 222:12, 22; 224:6;
225:9; 226:7; 249:15; 250:19;
251:15, 19; 255:22; 256:1;
257:16; 263:4, 5, 11; 264:2, 4,
12; 309:10;
331:9
potentially [8] 108:1; 119:9,
19; 132:17; 177:1; 202:21;

309:11
potentials [2] 92:8; 292:14
power [2] 89:20; 91:1
powered [1] 119:5
powerful [3] 109:1; 119:9; 346:20
practical [3] 51:12; 265:20; 285:21
practically [1] 344:13
practice [20] 9:5; 15:8; 27:8; 34:20; 40:21; 58:18; 101:16; 105:7; 118:18; 162:1; 175:15; 20, 22; 176:3; 178:8; 222:1; 237:4; 283:7, 9; 293:14
practiced [1] 15:20
practices [4] 57:7, 20; 63:8; 121:9
practicing [1] 36:12
practitioner [12] 28:14; 43:6; 179:7; 183:18, 19; 196:13; 199:5; 288:15; 289:16; 303:9; 304:19; 339:12
practitioners [14] 16:21; 37:12; 73:21, 22; 162:4; 163:12; 166:2, 13, 18; 288:17, 21, 22; 290:7; 302:18
pre-menopausal [1] 194:9
pre-prepared [1] 209:16
pre-term [1] 30:8
preamble [1] 29:3
precautionary [2] 258:10; 268:3
precedence [1] 62:14
precise [2] 148:12; 262:10
precisely [2] 148:1; 316:9
preclinical [16] 7:1; 47:16; 54:15; 132:8, 9; 151:16; 231:20; 255:7, 17, 19; 256:12; 261:11; 275:10; 286:12; 291:20; 313:14
preclinically [1] 123:9
preclude [1] 4:15
predict [3] 282:18; 309:4
predicted [2] 220:20; 308:16
prediction [1] 308:5
predictive [12] 33:4; 203:22; 221:2; 252:3, 14; 279:15; 303:18, 19, 22; 334:7; 340:17
predicts [1] 309:3
predominates [1] 58:18
prefer [4] 104:15; 167:7; 305:8; 334:9
preferable [1] 250:8
preferably [1] 167:13
preference [1] 166:3
preferred [2] 164:5; 250:5
pregnancies [14] 41:3; 142:18, 19; 143:6; 204:7; 229:21; 254:3; 255:1; 259:7, 12; 262:6; 264:14, 16; 333:11
Pregnancy [20] 7:18; 8:10; 21:21; 35:8; 45:5; 54:10, 14, 20; 55:4, 5, 14, 21; 56:6; 58:2, 11; 64:12; 65:21; 238:3; 255:3; 319:4
prejudices [1] 323:10
preliminary [2] 41:7; 314:6
preparation [1] 200:12
prepared [2] 209:10; 213:18
preparing [1] 314:8
prepartum [1] 295:18

prerogative [1] 94:14
prescribe [3] 40:18; 79:1; 189:18
prescribed [6] 128:16; 208:3, 11, 21; 226:8; 227:9
prescriber [4] 301:4, 6, 12
prescribing [13] 29:2, 12; 162:18; 163:8; 175:20; 177:16; 181:15; 183:19; 257:6; 258:20; 259:5; 260:9; 283:9
prescription [3] 54:13; 162:8; 200:16
prescriptive [1] 291:16
presence [6] 116:5; 145:2; 162:20; 253:13, 14; 297:22
present [22] 15:22; 20:15; 22:19; 44:16; 55:18; 84:2; 96:4; 101:4; 129:16; 142:2; 143:2; 145:7; 147:5; 178:11; 190:8; 202:18; 256:2; 259:21; 274:7; 311:9; 317:10, 15
presentation [19] 36:1; 57:17; 66:9; 100:9; 107:17; 111:8; 124:2, 11; 139:16; 146:22; 150:17; 160:20; 229:19; 245:12; 270:12; 273:15; 275:10; 292:3; 308:7
presentations [3] 57:16; 205:21; 349:7
presented [19] 41:16; 52:14; 54:12; 70:4; 80:12; 81:2; 84:5, 10; 85:1; 87:13; 147:14; 154:22; 159:21; 162:9; 163:21; 239:14; 317:1; 319:3
presenting [8] 140:2, 4; 158:13; 161:3; 202:20; 248:7; 260:4; 314:5
presents [2] 320:12, 13
preserve [1] 135:7
President [3] 8:19; 219:3, 5
press [2] 332:20; 346:11
pressure [1] 95:16
presumably [2] 302:6; 335:16
preterm [1] 104:1
pretty [19] 42:3; 70:6; 77:8; 82:1, 6; 91:16; 133:4, 6, 8, 12; 134:6; 173:10; 185:19; 204:18; 217:13; 278:15; 282:2; 315:15; 348:1
prevail [1] 254:10
prevent [2] 85:17, 22
previous [4] 5:16; 62:2; 93:20; 251:6
previously [3] 69:22; 151:9; 220:22
Primarily [1] 297:8
primarily [4] 125:20; 139:16; 207:22; 210:3
primary [8] 8:3; 18:16; 25:14; 68:17; 198:12; 235:18
primate [2] 68:2; 204:4
primates [4] 203:19; 204:5, 8, 14
principle [1] 150:12
principles [6] 126:10; 131:15; 134:11; 248:6; 339:21; 340:2
print [1] 218:5
printed [2] 25:21; 26:5
prior [8] 61:5, 8; 63:8; 64:7; 70:2; 74:7; 153:7; 296:19
prioritize [1] 200:5

private [1] 9:4
Probability [1] 76:1
probability [17] 71:20; 72:4, 18; 76:3, 6; 93:8; 124:4, 6; 287:8; 309:4; 324:17; 344:7, 8, 9, 10, 11
problem [43] 73:10; 76:6; 81:2; 82:2; 95:2; 112:17; 115:1; 125:7; 127:22; 143:13; 145:8, 17; 146:3; 156:16; 174:14, 20; 176:11; 178:13; 191:21; 239:15; 240:9; 242:21; 245:3; 254:17; 263:19; 264:10; 270:2; 290:12; 306:3; 323:21; 328:17, 19, 20; 329:1, 4; 330:9; 331:9, 14; 333:3; 341:16; 346:9, 16
problematic [6] 36:17; 76:8; 144:14; 145:11; 298:20; 344:12
problems [22] 7:10; 19:4, 6; 44:14; 47:2; 95:5; 96:18; 125:11; 138:11; 147:6; 160:8; 178:11; 184:10; 203:21; 204:5; 239:4; 264:22; 277:3; 281:21; 290:22; 299:20; 335:12
procedure [10] 74:7, 10, 13, 18; 75:14; 79:21; 96:21; 99:8, 11; 152:12
procedures [5] 57:7; 87:2; 152:6; 237:11; 246:10
process [37] 21:11; 25:18; 48:6; 55:2; 57:18; 58:12; 59:1, 10, 12; 60:8, 10, 13; 61:2, 17; 62:4, 7, 18, 22; 64:11, 17; 69:3, 8; 70:8; 99:10; 105:14; 106:6, 10; 146:6, 10; 156:6; 188:18; 191:17; 222:16; 275:13; 276:1
processed [1] 100:22
processes [4] 59:7, 13; 213:5; 242:9
processing [1] 106:13
produce [4] 115:21; 227:21; 325:9, 10
produced [3] 229:20; 324:5; 342:4
produces [2] 325:3, 4
Product [1] 46:20
product [43] 4:22; 21:13; 23:8; 25:8, 10, 22; 26:7, 11, 19; 28:4, 11, 12; 30:7; 32:2, 20; 41:21; 46:4, 18; 48:19; 49:11; 58:9; 61:21; 67:17; 69:18; 104:3, 4; 119:2; 120:18; 147:7; 159:3, 9; 193:18; 200:21, 22; 201:5; 246:17, 18, 22; 247:1, 7, 16; 256:1; 260:16
Products [5] 54:1; 245:18, 19, 21; 249:1
products [41] 5:1, 9, 17; 7:16; 16:1; 20:15; 23:2; 25:2, 19; 27:9, 16, 18; 31:1; 32:14; 33:13; 48:17; 112:19; 113:4; 118:16; 127:20; 128:1, 6, 16; 173:4; 186:1, 11, 21; 187:10; 188:7, 21; 204:14; 205:8; 246:9; 248:3, 14; 250:12; 251:9; 255:11; 263:10; 338:16, 22

professional [3] 79:10, 15; 212:16
professionals [5] 26:7, 17; 210:1; 247:15; 346:6
Professor [2] 6:19; 9:19
professor [2] 7:4; 9:7
profiles [1] 63:21
profusion [1] 336:8
progesterone [1] 127:15
program [7] 7:9; 9:9; 19:3; 70:17; 129:7; 238:17; 245:11
programs [1] 7:5
progress [3] 51:2; 140:6; 242:19
progresses [1] 61:18
progressive [1] 223:2
Project [1] 160:3
project [8] 133:20; 191:16; 192:5; 199:13, 17; 228:10; 282:20; 305:16
projects [2] 20:6; 305:18
promethazine [1] 223:9
prominence [1] 168:22
prominent [1] 169:7
promise [1] 347:15
promote [4] 26:15; 56:19; 64:21; 236:11
promoting [1] 57:14
promotion [1] 26:11
promulgated [2] 42:11; 118:9
prone [2] 85:7; 88:16
pronouncement [1] 213:10
pronouncements [1] 338:18
proof [9] 210:22; 211:2, 4, 7, 9, 13, 17, 18, 21
properly [2] 188:13; 221:7
proportion [1] 86:4
proportion [2] 83:3; 87:17
proposal [18] 17:20; 111:20; 112:2; 129:20; 131:3; 140:5; 154:16, 18; 169:18, 22; 176:15; 212:7; 269:5; 278:4; 287:6; 291:9; 292:16; 298:9
proposals [1] 284:15
propose [3] 26:22; 227:3; 267:3
proposed [20] 51:13; 113:13, 15; 129:21; 141:10; 146:11; 161:18; 162:13; 164:5; 165:8; 247:9; 258:19; 260:20; 261:21; 277:8; 278:14; 279:2; 280:17; 295:4; 300:22
proposing [1] 155:14
pros [1] 113:20
prospective [1] 249:16
prostate [4] 75:5; 77:19, 21; 103:3
prostatectomy [1] 75:7
protect [1] 227:2
protected [1] 25:4
protection [2] 34:4; 251:11
proteins [1] 153:8
prove [1] 304:21
proven [5] 149:5; 210:16, 18; 211:15; 343:7
provide [41] 28:13; 36:21; 43:21; 50:12; 65:3; 72:14; 93:6; 98:11; 105:21; 130:22; 133:10, 12, 14; 134:1, 8, 15; 137:20; 138:12; 140:16; 143:10; 144:14; 145:10; 146:1;

149:7, 8; 156:4; 161:17; 175:1;
186:14; 203:9; 219:9; 228:15;
248:6; 249:4;
286:20; 292:9; 304:2, 3, 4;
333:1; 343:9
provided [10] 25:12, 16;
38:11; 162:7; 163:20; 182:9;
208:20; 229:22; 252:6; 292:10
Providence [1] 19:2
provider [7] 132:15, 16;
207:21; 289:9, 10; 343:21;
345:4
providers [7] 36:12; 219:9;
228:18; 343:11; 344:16, 21;
345:21
provides [3] 182:2; 304:14,
16
providing [6] 99:3; 144:4;
177:2; 182:8; 280:1; 288:16
provisions [1] 238:18
psychiatric [2] 9:9; 137:4
psychiatry [2] 9:7; 105:4
psychological [1] 43:18
public [23] 17:13; 24:10, 16,
18; 36:5, 8; 113:18, 19;
134:13; 185:9; 188:3; 207:16;
209:5; 221:4, 9; 237:7, 16;
238:22; 243:1; 245:10; 260:5;
331:3
publication [3] 57:19; 222:2;
333:10
publications [1] 318:2
publicly [1] 228:17
publish [3] 113:14, 17; 114:2
published [6] 81:10; 89:5;
98:5; 114:21; 220:21; 230:3
pull [2] 102:19; 242:15
pulmonary [4] 95:2, 11, 12;
296:19
purchasing [1] 349:4
purpose [5] 18:5; 161:16;
260:12, 22; 273:14
purposes [3] 23:13; 199:3;
348:19
push [1] 283:10
puts [2] 212:14; 341:1
putting [7] 157:16; 170:19;
172:9; 213:8; 263:3; 334:8;
341:12
puzzle [1] 45:8

- Q -

Qualitative [1] 81:3
qualitative [15] 69:8; 80:4;
81:15; 82:17, 19; 84:14; 92:19;
161:6, 11; 217:19; 307:2, 19;
309:15; 310:20; 316:22
qualitatively [2] 43:4; 279:8
quality [31] 13:21; 35:5;
45:13; 50:8; 54:11; 61:20;
62:13; 118:8, 11; 119:20;
120:12, 16, 22; 121:6, 14;
122:5, 9; 123:6, 18; 125:7;
146:13; 155:1, 12; 158:16;
162:21; 286:8, 17; 287:15;
305:3; 329:16
quantify [1] 341:14
quantifying [1] 138:18
quantitating [1] 138:18
quantitative [22] 74:3; 80:5,

6; 81:5, 14; 82:10, 20, 21;
83:12; 84:18; 92:18, 20; 97:18;
106:10; 161:10, 15; 217:19;
307:1; 310:20; 312:6, 17;
316:22
quantitatively [4] 43:4; 81:22;
82:17; 279:7
quantity [3] 35:4; 280:22;
313:3
quarter [1] 222:5
query [1] 96:8
Question [1] 342:8
questioning [1] 285:20
questions [46] 24:2; 27:17;
36:11; 53:5, 15; 62:12, 15, 18;
66:9, 10, 14; 94:10; 100:3;
111:5, 9; 141:16, 21; 142:4, 6;
154:20; 161:9; 167:14; 188:3,
4, 9; 209:9; 216:20; 218:15;
261:19; 273:22; 274:7; 275:8,
17, 20; 276:6; 278:19, 20;
279:12;
280:13, 15; 306:20; 323:5;
328:2; 339:13; 348:4
queue [1] 300:18
quick [3] 164:10; 168:15;
332:17
quickly [4] 29:19; 145:4;
188:11; 281:9
quote [3] 40:16; 299:19;
320:19

- R -

rabbit [3] 204:4; 232:20
rabbits [1] 204:8
Rachel [3] 129:15; 168:10;
184:18
radiation [1] 80:19
radical [1] 75:7
raise [3] 194:6; 285:12;
307:11
raised [7] 41:17; 44:15;
116:13, 17; 184:10; 236:10;
346:8
raising [1] 6:5
Raleigh [2] 9:5; 127:8
rallied [1] 208:13
ran [1] 195:2
randomized [8] 76:9, 15, 18;
119:5; 220:1, 19; 221:19;
313:14
randomly [1] 280:10
range [12] 76:11; 82:3, 9, 12,
14, 16; 122:9, 12; 232:11;
324:16; 327:19
ranged [1] 82:10
rank [5] 91:17; 119:4, 7, 10;
271:8
ranked [8] 90:19; 91:3, 16, 18,
19, 21; 215:1; 271:2
ranking [2] 91:5; 294:18
rapid [2] 222:21; 296:19
rapidly [4] 145:4; 223:22;
224:7, 22
rapporteur [1] 261:14
rare [4] 81:17; 82:6; 217:8, 11
rarely [9] 39:12, 15, 17; 41:15,
19; 74:3; 97:19; 123:16; 215:5
rat [5] 126:13; 155:9; 164:3;
204:3; 241:18

rate [6] 77:12; 90:18; 222:17;
225:17; 307:11; 316:11
rates [2] 123:2; 304:15
ratio [6] 115:20; 159:19;
244:21; 307:6; 325:22
rationales [1] 172:15
rationally [2] 205:19; 302:7
ratios [3] 307:4, 5; 311:8
rats [4] 204:7; 325:4, 8; 343:4
re-consult [1] 305:22
re-stenosis [1] 75:14
reach [3] 52:22; 130:21;
324:15
reacting [1] 212:5
reactions [2] 154:7; 209:12
read [27] 4:11; 29:3; 89:8;
107:10, 11; 111:1; 130:15;
142:5; 152:21; 164:11; 165:3;
228:17; 278:20; 284:3; 285:7;
306:8, 16; 319:6, 10, 12, 16,
18; 322:16, 17; 329:19; 346:21
readdress [1] 106:7
reader [4] 141:1; 183:1;
313:3; 334:6
readers [2] 41:13; 279:6
readership [1] 43:2
readily [1] 174:16
reading [9] 157:10; 166:11,
12; 182:3; 209:11; 245:2, 5;
274:9
reads [4] 165:10, 17; 319:5;
342:13
real [19] 12:2, 6; 33:14; 81:2;
82:2, 7; 86:4; 94:4; 97:7; 99:8;
174:20; 199:5; 264:14; 271:17;
286:14; 289:18; 310:8; 332:2;
348:1
realistic [1] 105:16
reality [5] 12:10, 21; 32:13;
46:8; 219:20
realize [5] 12:20; 14:16, 20;
109:20; 237:9
realized [1] 13:16
realizing [1] 244:14
reason [10] 34:12, 21; 167:20;
214:8; 226:16; 267:19; 304:5;
337:18; 343:2, 8
Reasonable [1] 305:11
reasonable [12] 79:19, 20;
159:19; 168:15; 178:8; 198:21;
199:1; 211:11; 216:5; 217:3,
13; 291:17
reasonably [3] 283:6; 284:22;
306:19
reasons [11] 15:1; 52:3, 10;
64:17; 132:3; 198:9; 258:10;
278:12; 299:12; 325:7; 333:5
reassurances [1] 211:17
reassure [1] 53:4
reassuring [2] 30:15; 313:20
recall [3] 74:12; 89:1; 263:22
received [5] 47:6; 87:10;
88:3; 260:22; 284:9
receives [1] 88:12
receiving [1] 231:9
Recent [1] 223:6
recent [4] 41:1; 118:9;
220:18; 333:10
recently [5] 225:6; 244:7;
272:8, 9; 345:9
receptor [4] 68:3; 336:20, 21;

337:2
receptors [1] 67:21
recognition [2] 38:3; 65:22
recognize [16] 15:21; 33:2,
18; 42:3; 50:15; 105:1; 129:3;
185:10; 207:7; 218:18; 229:1;
237:17; 238:22; 274:17;
339:10, 18
recognized [1] 20:9
recognizes [1] 342:17
recognizing [1] 198:13
recommend [7] 89:8; 148:20,
22; 180:10; 189:17; 214:11;
244:11
recommendation [19] 99:21;
114:14; 152:10; 169:10, 12;
179:4; 180:9; 202:4; 213:14;
214:21; 216:2, 10; 217:6;
256:6; 269:17; 273:7; 294:19;
302:11; 318:7
Recommendations [2]
255:10, 22
recommendations [22]
35:14; 37:8; 42:15; 44:10;
45:2; 143:16; 164:7; 176:10;
212:22; 255:12; 256:21; 257:8;
263:4, 9; 265:22; 269:16;
273:8; 274:16; 279:4; 283:12;
284:18; 305:4
recommended [6] 35:22;
141:19; 246:18; 269:19, 20;
285:3
recommending [3] 177:17;
212:2; 214:15
reconvene [3] 207:3; 274:6;
348:3
record [8] 4:15; 5:13; 129:11;
206:12; 274:3; 349:13
recorded [1] 5:22
recovery [2] 222:22; 223:2
recruited [2] 161:20; 162:5
recurring [1] 132:21
red [3] 21:2; 81:20; 166:15
reduce [1] 108:22
reduction [7] 83:7, 8; 85:6,
15; 108:5, 6
redundant [1] 140:17
refer [2] 24:4; 281:9
referable [1] 150:8
reference [9] 57:6; 104:14;
122:20; 163:9; 164:10, 13;
196:1; 216:14; 263:2
references [1] 284:6
referred [1] 296:3
referring [2] 216:22; 299:20
refine [1] 140:8
refined [2] 141:11, 14
reflect [4] 27:1; 187:15;
214:22; 216:19
reflection [1] 250:1
reflects [4] 59:13; 176:1;
198:6; 321:13
refute [1] 239:18
regard [18] 4:14; 73:17;
87:21; 92:5; 101:16; 198:11;
219:14; 226:15; 227:7; 231:10;
235:21; 236:18; 280:16;
287:11; 308:13; 312:6, 18
regarded [2] 199:15; 325:6
Regarding [2] 163:16; 286:15
regarding [7] 26:14; 51:2;

56:13; 256:9; 279:12; 287:4; 323:5
regardless [1] 273:6
regards [3] 73:7; 75:4; 110:11
regimen [1] 174:8
regimens [1] 220:3
region [1] 222:20
regional [5] 143:22; 147:15, 19; 149:3, 10
Register [4] 113:15, 18; 276:15; 277:14
registered [1] 243:9
registries [6] 49:8; 186:13, 18; 188:19; 290:18; 316:7
registry [7] 49:21; 50:1, 11; 194:17; 195:6; 290:1, 20
regrets [1] 21:7
regroup [1] 276:10
regular [3] 27:6; 156:8; 164:2
regularly [1] 150:15
regulate [2] 7:16; 27:8
regulated [2] 123:9; 227:5
regulates [1] 25:1
regulating [1] 199:13
regulation [22] 28:21; 29:5; 34:6; 46:1; 48:7, 14; 53:6; 58:20; 112:7; 113:2; 114:8, 10; 136:13, 14; 176:3; 199:21; 275:4; 276:17, 21; 277:2, 3; 278:15
regulations [14] 21:16; 23:21; 29:4, 21; 31:13; 33:15; 35:13, 20; 36:4; 42:10; 56:21; 237:11; 247:6; 276:2
regulators [1] 12:3
regulatory [10] 8:20; 15:12; 59:8; 67:4, 6, 11, 13; 184:21; 237:10; 268:11
reifies [1] 213:9
reimbursement [3] 176:8; 190:17; 191:3
reinforce [1] 302:15
reinforcing [1] 121:5
reinvent [1] 287:12
reinvented [1] 287:17
reiterate [2] 68:7; 322:6
reiterated [1] 167:3
rejected [2] 249:22; 250:4
relate [5] 77:14; 86:17; 94:20; 234:16; 336:17
related [23] 35:16; 60:17; 61:10; 64:8; 87:2, 8; 95:5; 103:16; 118:4; 119:18; 124:22; 157:9; 171:21; 172:1; 205:1; 225:16; 239:4; 244:9; 248:3; 333:9; 336:22; 345:10
relates [5] 92:7; 293:21; 336:3, 9; 347:10
Relating [1] 173:9
relating [2] 95:1; 283:7
relationship [4] 197:11; 284:14; 290:11; 338:12
relative [18] 61:6; 63:22; 83:7, 15, 19, 21; 85:2, 6; 87:6; 108:5; 117:13; 172:3; 279:7; 307:17; 308:14; 317:22; 324:8; 341:8
relatively [10] 54:6; 65:9; 108:6; 122:14; 141:2; 280:21; 281:3, 6, 9; 307:13
relay [1] 107:4

relaying [1] 106:16
released [2] 189:6; 194:16
relevance [13] 39:9; 93:4; 123:7, 20; 155:1, 12, 20; 210:6, 13, 19; 233:4; 255:7; 341:21
relevant [23] 25:9; 41:1; 68:11; 114:5; 123:13; 125:22; 128:21; 133:10; 155:14; 161:8; 193:11; 224:15; 249:5; 253:10, 13; 255:14; 256:6; 296:11; 308:6; 309:5, 11; 323:12; 327:11
reliable [1] 253:20
reliance [2] 132:7; 201:16
relied [2] 36:12; 37:11
religion [1] 231:1
reluctant [2] 221:8; 236:21
rely [5] 25:15; 162:19; 163:7, 10; 204:11
remain [3] 134:9; 192:2; 221:17
remarks [1] 34:19
remember [9] 49:5; 90:11; 98:4; 110:20; 209:19, 20; 210:3; 276:18; 335:9
remembering [1] 176:19
remind [8] 5:20; 196:18; 272:17; 274:10; 275:3, 9
reminded [1] 287:22
reminder [1] 179:7
reminding [2] 305:19; 320:16
remiss [2] 171:1; 181:4
remote [1] 220:5
remotely [1] 9:16
Remove [1] 112:13
remove [1] 323:8
removed [1] 192:3
removes [1] 292:14
removing [1] 291:22
renal [4] 132:1; 178:13, 15; 336:8
reorganization [2] 280:17; 322:20
rep [2] 287:20; 291:3
repeat [1] 168:20
repeatedly [2] 42:22; 184:11
repeating [1] 313:18
repeats [1] 317:5
rephrase [1] 260:20
rephrasing [1] 325:21
Replace [1] 133:5
replace [2] 112:13, 14
replaced [3] 42:5, 20; 260:11
replacements [1] 30:5
reply [1] 159:13
Report [1] 98:6
report [7] 26:22; 48:16; 118:11; 154:10, 13; 156:10; 231:19
reported [4] 4:18; 115:4; 218:11; 224:17
reporting [3] 48:7, 13; 216:5
reports [8] 33:12; 46:19; 50:3; 119:11; 142:21; 328:20
represent [2] 76:14; 211:11
representation [2] 36:19; 270:20
representative [1] 8:17
representatives [3] 36:22; 187:21; 238:15

representing [1] 90:19
represents [4] 25:22; 59:19; 76:11; 82:4
repro-tox [1] 15:6
reproduced [1] 81:15
reproducible [1] 141:2
reproduction [3] 54:17; 58:21; 192:12
Reproductive [9] 54:5, 19; 55:13; 56:2, 4, 6, 8, 10; 57:10
reproductive [44] 7:1; 9:4, 7; 15:9, 16; 30:14; 32:16; 33:3; 39:10; 47:18; 54:22; 55:12; 56:14; 57:4, 13, 21; 58:6, 14; 59:2, 8, 9, 16, 20, 21; 60:5; 62:12; 63:2; 64:19, 22; 65:8, 12; 160:5; 162:4; 217:4; 221:1; 232:4; 240:20; 242:9; 249:8; 258:9; 259:3; 279:16; 297:12
reprotox [1] 201:9
request [1] 5:5
requested [1] 207:6
require [6] 31:11; 184:15; 225:22; 227:4, 5; 228:14
required [3] 111:18; 115:21; 216:1
requirement [5] 30:18; 112:14; 189:10; 274:21; 332:4
requirements [4] 28:20; 31:13; 33:10; 205:19
requires [2] 186:3
requiring [2] 185:18; 201:8
Research [6] 7:22; 10:13; 56:4; 85:19; 222:18; 287:14
research [10] 9:9; 25:15; 161:6, 12; 215:8, 14; 223:6; 231:12; 281:9; 318:1
researchers [1] 335:21
Reserve [2] 9:8; 104:20
reserved [1] 206:7
residents [2] 37:20; 338:4
resolution [1] 56:18
resolve [2] 114:19; 198:7
resolved [1] 152:4
resonate [1] 71:7
resource [1] 112:17
resources [3] 27:5; 194:22; 195:4
respect [12] 5:14; 146:6; 184:12; 200:8; 209:7; 213:4, 15; 255:12; 283:12; 306:22; 311:18; 328:3
respectively [1] 226:20
respects [2] 99:5; 268:9
respond [9] 67:21; 127:5; 169:9; 173:20; 179:2; 216:21; 241:17; 311:7; 314:17
responds [1] 240:22
response [9] 55:20; 60:20; 114:16; 116:22; 171:5; 221:2; 313:1; 324:5; 334:20
responses [2] 60:16; 276:5
responsibility [5] 53:6; 54:21; 98:11; 275:4; 338:3
responsible [2] 8:20; 334:2
rest [3] 52:6; 100:4; 342:13
restating [1] 344:2
restricted [2] 156:17; 267:20
restricting [1] 335:15
restrictions [2] 348:16, 18

restrictive [1] 269:17
result [4] 76:15; 117:7; 288:19; 301:13
resulted [1] 138:9
resulting [1] 54:18
results [13] 61:12; 67:10; 70:12; 76:10; 83:15; 84:2, 19; 115:22; 161:3; 189:9; 229:21; 252:10; 253:16
retardation [7] 155:4, 10, 18; 235:16; 295:8; 296:15; 326:17
retarded [1] 242:1
retinoid [2] 333:8, 9
retrospective [2] 29:7; 40:16
return [2] 158:6; 273:22
revamping [2] 216:7; 217:20
reverse [3] 24:20; 38:7; 280:10
reversibility [1] 258:2
reverting [1] 151:12
Review [2] 7:21; 54:2
review [21] 25:12; 47:18; 54:11; 56:13; 65:3; 70:7; 118:22; 127:16; 131:9; 141:5; 146:18; 156:8; 175:13; 176:4; 191:18; 199:14; 200:22; 220:18; 286:12; 293:22
reviewed [1] 199:19
reviewer [3] 47:3; 57:2; 115:9
reviewers [8] 46:13; 47:7; 57:4, 18; 115:8; 157:1; 239:11; 286:7
reviewing [2] 69:18; 176:15
reviews [2] 189:19; 305:8
revise [3] 111:21; 114:2, 10
revised [1] 42:5
revision [1] 191:18
rheumatoid [1] 231:4
ribavirin [1] 272:9
rid [1] 78:1
Right [8] 99:12; 114:11, 22; 144:11; 149:22; 151:20; 196:5; 299:15
right [20] 51:10; 57:1; 69:7; 102:14; 120:11; 121:15; 141:15; 151:5; 164:10; 194:8; 212:11; 214:20; 215:22; 272:4; 276:7; 282:6; 298:4; 302:16; 322:8; 339:14
righthand [2] 70:5; 162:14
rigid [1] 33:9
Risk [3] 39:20; 71:16; 72:10
riskier [1] 190:14
riskiest [1] 91:1
riskiness [1] 90:18
risky [4] 177:2; 190:4; 286:22; 319:16
Robert [2] 71:1; 229:2
rodents [3] 67:20; 197:4; 203:20
role [14] 39:15; 55:5; 74:17; 103:21; 174:21, 22; 175:4; 184:6; 192:11; 301:4; 308:21; 312:18; 318:2; 336:6
roll [1] 278:6
rolls [1] 172:19
Room [1] 5:6
room [6] 10:3; 43:16; 110:5; 177:21; 290:6; 317:13
Roselens [8] 136:19; 137:3, 8; 139:3, 6; 154:17; 165:12;

282:19
Rosenblatt [1] 226:16
ROSENE-MONTELLA [8]
 7:7; 102:4; 147:12; 181:5;
 194:12; 318:4; 320:18; 337:8
Rosene-Montella [4] 7:7;
 102:4; 147:12; 181:5
roses [1] 277:10
rostrum [1] 111:10
routes [1] 253:1
routinely [1] 74:2
rudimentary [1] 47:3
rule [18] 28:22; 31:21; 48:21;
 113:3, 14, 16; 114:1, 3;
 129:21; 132:20; 173:16; 199:1;
 261:2; 268:2; 277:8; 278:10,
 14
rulemaking [1] 129:22
rules [3] 56:21; 132:19;
 272:18
run [3] 6:17; 9:8; 62:17
running [1] 7:8

- S -

Sackett [1] 86:2
safe [13] 135:14; 136:6;
 190:9; 199:16; 215:9, 15;
 240:7, 8; 241:7; 253:15;
 332:18; 338:4, 5
safely [1] 247:16
Safety [1] 245:18
safety [29] 9:2; 25:9, 19;
 26:16, 22; 27:1, 14; 28:13;
 33:12, 14; 48:7, 13; 201:2;
 208:2; 211:17; 215:13; 219:11,
 14; 221:20; 227:18; 239:5;
 256:12; 261:10; 290:4; 312:19;
 313:13; 318:14; 334:13
sample [4] 162:22; 165:7;
 218:9; 234:17
samples [1] 199:1
sampling [1] 234:8
San [3] 8:12; 9:14; 125:10
Sandi [9] 111:9, 16; 184:20;
 192:5; 235:22; 238:20; 264:19;
 297:5; 314:18
Sandra [14] 7:14; 71:2, 7, 11,
 16; 73:7; 76:22; 93:13;
 103:13; 107:22; 110:12; 118:4;
 119:11; 201:6
Sandy [12] 10:20; 16:6; 17:18;
 18:5, 13, 21, 22; 19:7, 10, 18,
 21
sat [2] 5:19; 42:1
satisfactory [4] 246:6;
 256:17; 260:7; 272:21
satisfy [2] 13:13; 301:2
save [1] 168:16
saves [1] 278:16
saving [2] 135:15; 136:8
saying [27] 97:20; 98:9;
 112:1; 145:6; 148:10; 153:4;
 157:1; 164:6; 166:5; 171:11,
 15; 176:20; 180:21; 185:4;
 197:15; 198:4; 215:11; 232:14;
 252:1; 260:20; 266:13; 284:7;
 302:20; 314:18; 322:13; 327:2;
 334:20
scarce [1] 310:16
scare [1] 90:11

scary [1] 289:16
scenario [1] 277:10
scenarios [1] 83:14
scheduled [1] 74:8
schematic [1] 55:2
scheme [6] 146:2, 3; 180:2, 4;
 266:2; 342:2 -
School [3] 6:21; 143:15;
 174:2
school [4] 38:12; 98:17;
 317:3, 9
schools [2] 8:11; 188:3
Schwetz [1] 16:10
Scialli [1] 47:11
Science [2] 89:6; 224:18
science [7] 10:15; 45:13;
 160:22; 207:13; 222:1; 225:21;
 309:6
Sciences [4] 8:19; 146:21;
 201:14; 291:8
sciences [1] 59:9
scientific [4] 59:1; 221:7;
 239:4; 241:3
scientifically [3] 210:14;
 241:9; 308:18
scientist [2] 7:1; 223:15
scientists [1] 210:12
scope [3] 131:6; 178:18;
 191:15
scored [1] 91:7
SCOTT [1] 287:19
Scott [2] 287:18, 19
scrupulous [2] 207:17;
 211:13
se [4] 159:22; 200:11; 292:19;
 298:2
Second [7] 23:4; 43:1; 51:15;
 93:12; 142:4; 164:15; 257:19
second [28] 12:17; 13:9;
 35:14; 44:9; 66:17; 68:6;
 74:19; 96:1; 140:14; 153:16;
 200:3; 206:6; 210:5; 218:15;
 228:2; 232:13; 233:10; 235:20;
 247:3; 254:9; 257:3; 281:12;
 301:17; 306:7; 312:3; 324:6
secondary [1] 336:17
secondly [3] 212:11; 249:7,
 17
seconds [1] 223:5
Section [8] 248:12, 13, 17;
 255:19; 256:10; 270:13
sections [11] 27:15; 131:20;
 132:12; 134:20; 152:20; 168:6;
 176:12; 191:22; 192:2; 254:19;
 256:10
security [1] 283:22
seeds [2] 238:16; 342:16
seek [9] 24:9, 15; 51:1, 15;
 52:16; 176:17; 179:4, 14;
 274:15
sees [1] 34:3
segue [1] 306:18
seizure [3] 174:12; 180:12;
 182:12
seizures [5] 73:8, 9, 11;
 174:9; 182:13
select [3] 186:11; 279:11;
 280:10
selected [4] 123:14; 179:15;
 228:7; 311:20
selection [1] 123:12

selectivity [1] 337:1
self-explanatory [1] 295:6
self-regulating [1] 325:7
semi-experimental [1] 153:20
semi-quantitative [1] 309:8
seminars [1] 57:15
Senate [1] 208:5
send [1] 49:15
sending [1] 101:21
sends [2] 21:6; 48:22
sense [15] 30:22; 86:12, 13;
 95:22; 96:9; 109:9; 128:18;
 139:10, 15; 213:9; 276:6;
 283:22; 295:8; 333:22; 341:8
sensitive [1] 299:17
sensitivity [1] 151:3
sentence [7] 169:6; 227:6;
 259:9; 260:8, 15; 301:17;
 319:5
sentences [1] 304:14
sentinel [1] 191:19
separate [16] 50:2; 60:10;
 62:7; 134:20; 136:4; 139:10;
 152:20; 171:13; 172:15;
 203:11; 219:15; 275:13;
 298:12; 302:13; 329:7
separated [2] 273:13
separately [2] 62:7; 172:21
separating [2] 62:5; 203:4
separation [1] 55:7
Sepkoski [1] 226:17
September [3] 36:9; 230:6;
 277:14
sequence [1] 66:15
sequential [1] 106:6
serendipity [1] 198:11
series [5] 62:11; 115:10, 13;
 182:16; 254:3
serious [2] 12:6; 313:13
seriously [1] 290:1
serum [8] 171:3, 4; 172:10;
 180:17; 183:12; 239:21; 266:6
serve [2] 179:7; 216:14
serves [3] 56:12, 17; 122:12
Service [1] 6:18
service [5] 8:3; 56:12; 93:20,
 21; 220:14
Services [1] 187:20
services [1] 207:21
serving [1] 55:5
session [3] 17:14; 97:20;
 348:14
sets [1] 121:4
setting [6] 68:22; 188:11;
 210:2; 213:7; 298:14; 328:4
settings [1] 204:13
seven [5] 60:5; 62:12; 63:1;
 259:11; 281:15
seven-year [1] 85:22
Seventies [1] 208:11
severity [2] 258:1; 340:6
sex [2] 229:15; 233:14
shaking [1] 125:17
shame [1] 87:11
share [5] 289:16; 334:10, 11;
 335:6, 7
shared [1] 289:12
sharp [1] 282:3
sharpen [1] 209:21
Sheevers [1] 66:7
shorthand [1] 280:21

shot [1] 331:22
show [10] 30:11, 13; 59:18;
 75:21; 233:21; 252:18; 290:14;
 328:22; 331:15; 348:19
showing [3] 149:15; 224:19;
 284:11
shows [4] 84:8; 92:3; 108:21;
 159:19
shy [2] 286:21; 302:2
sides [1] 166:2
signal [10] 22:9; 60:5, 7, 9,
 14; 63:14, 15; 121:17, 18;
 218:13
signals [2] 60:18; 63:1
significance [1] 65:7
significant [11] 64:4; 70:13;
 96:22; 155:4; 159:19; 197:9;
 226:4; 294:3, 6; 308:9; 325:6
significantly [3] 70:3; 117:9;
 225:16
signs [2] 325:1, 13
similarity [1] 334:11
simple [15] 37:21; 38:9, 10;
 44:13; 59:10; 70:12; 157:8;
 169:1, 11; 179:11; 194:17;
 276:17; 281:16; 288:11, 12
simpler [1] 239:3
simplest [1] 139:15
simplified [2] 29:15; 37:13
simplify [3] 50:11; 230:22;
 231:7
simplistic [3] 38:9; 130:7;
 249:22
single [8] 21:13; 37:15; 74:12;
 96:12; 140:10; 228:7; 254:15
sister [1] 186:19
sit [7] 24:12, 17; 53:9; 111:13;
 287:21; 289:8; 301:4
sitting [4] 10:2; 146:9; 177:21;
 302:5
situated [1] 188:10
Situation [1] 258:22
situation [29] 14:9; 40:22;
 116:3; 119:17; 138:1; 150:8;
 171:3, 7; 187:16; 242:17;
 245:22; 246:4, 21; 248:10;
 249:16; 255:13; 257:13, 17;
 258:7; 259:6; 282:7; 308:1, 3;
 314:19; 315:17; 330:6; 340:1;
 345:9
situations [14] 38:19; 103:21;
 135:20, 22; 136:4, 10; 176:5;
 179:5; 246:7; 249:14; 257:12;
 329:8; 339:16; 340:1
six [13] 30:3; 37:6; 63:11;
 69:19; 135:21, 22; 136:9;
 226:19; 259:6; 306:11; 314:2;
 317:11; 334:9
Sixth [1] 259:6
Sixties [1] 208:10
size [2] 196:6; 218:9
sky [1] 244:7
slant [2] 296:14, 21
sleeping [1] 332:11
sleeves [1] 278:7
slides [11] 10:6; 21:1, 2, 15;
 22:8; 37:6, 10; 60:3; 70:20;
 111:20; 294:21
slightly [4] 133:15; 138:7;
 165:16; 210:10
slim [2] 185:19; 186:7

Sloan [1] 9:19
 sloppy [1] 130:11
 Slovic [3] 89:5; 90:9; 109:4
 SmithKline [1] 7:2
 social [1] 160:22
 societal [1] 78:20
 societies [1] 37:1
 society [1] 13:15
 solicit [1] 280:15
 solid [4] 211:1; 283:8; 284:19, 20
 Somebody [1] 145:16
 somebody [10] 49:13; 109:1; 149:20; 181:19, 21; 183:20, 22; 232:14; 289:3; 310:4
 Somehow [1] 149:22
 somehow [9] 30:15; 95:20; 106:1; 136:12; 299:6; 329:12; 337:15, 21; 338:20
 someone [18] 102:9, 15, 16, 17, 21; 160:16; 164:9; 177:15; 182:5, 12; 202:10; 215:10; 282:3; 294:20; 301:8; 317:6; 320:4; 341:20
 somewhat [14] 32:9; 108:16; 134:11, 12; 147:13; 167:18; 169:12; 171:1; 185:4; 212:8; 230:17; 296:13; 302:13; 322:21
 somewhere [5] 85:21; 146:9; 190:10; 262:22; 312:12
 son [1] 317:3
 sonography [2] 165:20; 166:5
 sooner [2] 276:8; 277:20
 sophisticated [1] 183:1
 sophistication [1] 42:10
 Sorry [1] 81:7
 sorry [9] 74:9; 81:19; 102:2; 103:2; 107:20; 170:10; 252:15; 291:2; 334:19
 sort [41] 23:16; 25:1; 28:1; 38:3; 94:18; 97:15; 98:1; 101:10; 112:17; 120:17; 130:11; 133:18, 20; 141:21; 147:4; 157:9, 12; 163:3; 167:19; 172:19; 187:8; 190:18; 199:13; 215:2; 217:15; 218:6; 228:10; 239:17; 273:8; 281:13; 291:22; 304:13; 307:18; 309:8; 313:20; 330:5; 335:2; 340:7; 344:9; 347:10
 sorts [2] 187:9; 204:21
 sound [2] 287:6; 345:19
 sounds [7] 168:2; 214:11, 12; 217:20; 218:5; 307:12, 14
 source [1] 177:19
 sources [5] 34:16; 139:19; 141:22; 189:12; 244:19
 Southern [1] 8:13
 space [2] 50:14; 131:17
 Spain [1] 197:7
 spare [1] 274:8
 sparing [1] 37:5
 SPC [12] 247:14, 20, 22; 248:7, 11, 12; 254:19, 20; 256:16; 269:5; 270:5
 speak [11] 5:21; 6:1, 5; 107:6; 110:5; 207:6, 15, 16; 229:7; 245:20; 342:22
 speaker [3] 129:15; 158:20; 168:8

speakers [6] 21:2, 4; 23:13; 100:4; 127:6; 129:5
 speaking [6] 6:4; 55:6; 68:12; 168:9; 297:7; 334:20
 special [4] 48:14, 19; 65:22; 256:11
 specialist [2] 43:14; 54:16
 specialties [1] 181:18
 species [11] 60:21; 63:18, 20; 123:12, 13; 126:14; 167:8; 251:2, 18; 252:8, 17
 specifically [23] 30:7; 33:11; 68:10; 69:10, 14; 112:6; 117:16; 123:10; 138:16; 145:1; 176:10; 182:20; 193:12; 204:2; 209:9; 211:7; 241:10; 295:3; 297:7; 307:3, 5; 340:13, 14
 specificity [3] 296:10; 336:19; 337:2
 specified [4] 66:15; 159:22; 258:5, 16
 specify [1] 114:6
 specifying [2] 148:10, 11
 spectacular [1] 326:8
 spectrum [1] 52:11
 speculating [1] 132:20
 speculation [1] 131:20
 speeches [1] 220:12
 spend [3] 22:1; 35:18; 234:13
 spends [1] 149:17
 spent [3] 51:7; 220:7; 292:2
 spoke [2] 55:8; 340:19
 sponges [1] 229:16
 sponsor [3] 25:20; 26:9, 20
 sponsors [6] 25:13; 26:14; 33:11; 56:16; 65:2; 67:9
 spontaneous [1] 236:1
 spontaneously [1] 74:14
 spouse [3] 103:5, 6, 7
 Spray [1] 91:18
 spread [2] 173:13; 312:13
 spreads [1] 256:15
 spreadsheet [1] 195:22
 stable [1] 313:6
 staff [8] 4:8; 57:17; 184:9; 207:12; 209:17; 280:16; 281:14; 297:2
 staffperson [1] 214:12
 stage [2] 25:1; 261:16
 stakes [1] 35:2
 stand [3] 56:22; 215:6
 standard [27] 50:7; 79:4, 10, 13, 15, 19; 121:10; 136:15; 143:19; 147:18; 148:6, 7; 149:4; 176:1, 2; 177:3; 178:4, 6; 205:7; 211:4, 7, 9; 240:17; 254:13; 292:9; 297:10
 standardization [3] 147:4; 151:9; 250:9
 standardize [1] 271:14
 standardized [1] 164:19
 standards [6] 118:15, 20; 212:16; 245:8; 303:2, 5
 standpoint [2] 128:11; 302:1
 start [17] 6:12; 11:16; 13:14; 45:16; 49:2; 101:14; 160:11, 12; 271:18; 274:9; 275:20; 280:14; 294:5; 307:10, 22; 308:2; 337:22
 started [9] 4:9; 47:3; 138:15; 188:7; 199:12; 246:6; 247:1;

254:16; 278:7
 starting [4] 65:12; 112:18; 289:11; 327:8
 starts [1] 60:4
 state [18] 75:2; 123:8; 170:21; 172:2; 215:21; 238:7; 261:21; 206:1; 308:4, 13; 309:6, 12; 321:21; 326:3, 6; 344:3
 stated [10] 62:16; 111:17; 246:16; 251:13; 258:13; 259:19; 270:4; 302:14; 320:3; 328:6
 statement [42] 4:12; 33:14; 134:22; 135:11; 136:19; 137:3; 144:18, 21; 158:17; 166:4; 169:16; 170:21; 171:12, 16; 172:5; 173:5; 176:16; 178:10; 180:9; 182:19; 265:19; 266:5; 291:11; 294:14; 301:16; 304:16, 20; 308:8, 17; 309:3, 8; 315:18; 319:3; 320:19; 321:3; 322:14, 15, 18; 330:1, 7; 339:10; 343:3
 statements [11] 5:4; 151:8, 10; 164:10; 174:3; 254:14; 285:20; 308:15; 334:13; 346:18, 21
 States [5] 41:2; 48:10; 189:7; 224:3; 267:5
 states [4] 153:9; 238:21; 256:8; 269:9
 stating [4] 103:21; 113:10; 306:3; 343:14
 statistic [2] 83:9; 86:8
 statistically [2] 122:17; 197:9
 statistics [2] 83:6; 98:17
 status [2] 238:9; 259:22
 stay [4] 94:13; 176:9; 218:14; 338:17
 steer [2] 282:16; 283:8
 Step [1] 184:1
 step [8] 48:22; 62:7; 95:10, 22; 96:1; 97:10; 144:17; 293:4
 steps [1] 227:4
 stepwise [1] 61:16
 steroids [2] 229:15; 233:14
 stick [3] 177:9; 214:9; 343:14
 stickers [1] 106:19
 stillbirth [1] 235:11
 stillborn [1] 235:17
 stimulating [1] 349:10
 stir [1] 160:3
 stone [3] 260:1; 272:19; 284:16
 stool [2] 101:20, 22
 stop [7] 218:14; 229:17; 237:2; 256:6; 270:17; 294:5; 304:22
 stops [1] 222:9
 storm [1] 320:1
 straight [2] 125:13; 126:8
 straightforward [5] 133:6, 8, 9; 197:18; 288:13
 strategies [1] 180:11
 strategy [2] 172:11; 191:11
 strength [1] 63:15
 stressed [1] 167:11
 striking [1] 42:7
 stringent [1] 31:13
 strive [1] 130:14
 Stroke [1] 224:13

stroke [2] 85:22; 108:5
 strong [5] 86:4; 180:8; 252:2; 329:19; 336:14
 strongly [3] 163:17; 179:5; 291:21
 struck [1] 268:9
 structural [3] 61:9; 295:7; 326:16
 structurally [1] 64:8
 structure [6] 55:18; 134:1, 8; 141:6; 208:14
 structures [1] 241:4
 struggle [3] 33:7; 137:11; 269:2
 struggled [5] 119:14; 148:14; 212:8; 316:6, 7
 struggling [3] 142:1; 179:22; 190:18
 stuck [3] 96:10; 139:17; 190:13
 students [3] 90:22; 91:20; 177:11
 studied [3] 187:1; 215:7, 13
 Study [1] 228:3
 study [42] 28:11; 55:7; 56:19, 20; 58:6, 7, 13; 59:22; 62:14, 19; 64:19, 22; 65:12, 15; 68:5; 75:12; 77:22; 80:16; 84:20; 92:3; 115:3; 118:21; 121:19, 20; 122:2, 3, 5, 10; 123:21; 124:9; 164:14; 185:19; 188:12; 189:11; 234:10; 250:21; 287:16; 313:18; 314:2, 5; 341:20; 345:9
 studying [1] 185:2
 stuff [7] 88:12; 100:20; 106:3; 120:13; 154:8; 190:3; 343:16
 stupid [1] 109:20
 style [1] 133:18
 Subcommittee [4] 55:13; 56:5; 57:11; 238:3
 subcommittee [6] 21:5; 56:7; 217:5; 237:22; 238:6; 348:3
 subcommittees [1] 24:11
 subheader [1] 324:6
 subheading [2] 327:3; 346:13
 subheadings [4] 295:4; 323:13; 346:8, 10
 subject [6] 177:13, 14; 196:19; 230:5; 235:3; 305:7
 subjected [2] 219:22; 221:6
 subjective [7] 33:17; 72:6, 7, 8, 19; 89:3; 347:22
 submit [1] 146:11
 submitted [5] 4:17; 56:16; 60:1; 119:19; 186:5
 submitting [2] 5:5; 67:9
 Subsection [2] 248:14, 15
 subsection [5] 132:2; 140:12; 311:19, 21; 314:13
 subsections [3] 112:1; 140:9, 10
 subsequent [2] 61:22; 223:2
 subsequently [1] 114:2
 substance [2] 251:13; 256:4
 substances [1] 199:16
 substantial [4] 75:15; 87:10; 93:17; 185:22
 substantially [1] 198:20
 substantive [1] 286:20

subtle [2] 26:4; 223:18
subtype [2] 336:20, 21
subunits [1] 60:3
success [1] 306:10
successful [1] 341:7
successfully [1] 108:15
sufficient [9] 84:1; 125:2; 178:10; 198:16, 22; 251:14; 253:15; 322:4; 340:10
sufficiently [1] 141:8
suggest [5] 114:17; 280:6; 323:20; 328:20; 329:3
suggested [6] 41:7; 160:16; 167:9; 310:19; 312:9; 323:13
Suggesting [1] 171:2
suggesting [5] 304:18; 311:1; 327:5, 6; 345:10
suggestion [5] 163:4; 186:10; 333:2; 339:20; 347:16
suggestions [8] 51:11; 110:15; 133:5; 136:15; 179:17; 233:10; 280:3; 283:14
suggests [8] 31:16; 284:2; 298:18; 328:17, 19; 331:8; 332:16; 344:22
suit [1] 206:10
suits [1] 166:8
sum [5] 37:10; 70:12; 93:5; 97:20; 308:11
summaries [2] 146:7; 284:10
summarize [6] 37:3; 105:8; 131:10; 284:12; 323:18; 326:20
summarized [1] 44:12
summarizes [1] 26:6
summarizing [1] 316:10
summary [35] 48:1; 62:3; 92:11; 133:12; 134:22; 138:2; 139:11; 140:14, 20; 142:14, 16; 150:11, 18; 154:16; 157:16, 18; 164:9; 172:16; 202:6; 214:19; 246:22; 247:1; 249:4; 281:4, 7; 282:11; 283:5; 285:19; 291:12; 308:7; 309:8; 318:19; 322:9, 13
summate [1] 70:11
sunscreen [2] 214:8, 9
supplement [1] 30:5
supplemented [1] 37:2
support [5] 4:9; 19:14; 25:10; 207:18; 270:16
supported [8] 196:8; 207:22; 208:7; 283:15; 286:19; 308:18
supporting [1] 285:19
supportive [1] 19:8
supports [1] 224:18
supposed [4] 39:21; 149:9; 172:8; 175:2
surely [1] 126:13
surfing [1] 106:18
surgery [8] 80:17, 19, 20; 91:14; 97:2; 183:21; 218:21; 230:21
surrounding [1] 303:10
surveillance [2] 143:21; 188:12
survey [1] 266:17
survival [2] 13:20; 80:21
susceptibility [1] 126:11
susceptible [1] 299:11

suspect [1] 331:22
suspected [5] 36:16; 253:8; 257:14; 267:21; 269:6
sustained [1] 171:4
swimming [2] 91:20, 22
swing [1] 211:15
symptoms [3] 99:12; 180:17; 337:17
synchrony [1] 223:17
synopsis [1] 169:20
system [50] 22:19, 20; 23:3; 25:17; 29:15; 33:5, 10; 36:11; 37:14, 16; 38:2, 9, 10, 18; 39:6, 21; 40:14; 41:6; 42:4, 19; 46:19, 22; 47:5; 51:8; 62:2; 68:14, 19; 96:14; 112:12, 21; 113:5, 16; 127:20; 130:6; 136:20; 186:2, 21; 214:10, 16; 216:7, 9; 224:8; 241:11; 242:5; 262:14; 270:21; 272:1; 275:6; 331:16
systematic [4] 118:7, 11; 286:6; 305:8
systemic [3] 324:8, 16; 339:3
systems [4] 216:5; 218:2; 242:2, 3

- T -

table [13] 6:10; 21:8; 24:12, 18; 36:9; 53:11; 195:2, 18; 206:6; 268:22; 274:17; 293:3; 303:14
tables [1] 37:18
tackle [2] 36:3; 135:10
take-away [1] 105:12
takes [8] 62:13; 104:5; 117:1; 131:6, 8, 9; 213:1; 340:7
talk [47] 10:15; 20:14, 19; 21:14, 16, 19; 22:7, 16; 28:3; 43:3; 48:2; 54:7, 8; 65:10; 71:3, 8; 72:17, 21; 78:19, 22; 79:1; 80:3; 88:22; 95:11; 100:8, 12; 103:4; 104:20; 107:7; 110:22; 131:2; 136:14; 138:15; 182:11; 220:15; 234:12; 236:22; 265:6; 297:19; 298:8; 319:20; 320:10; 326:11; 337:10; 341:5; 344:20
talked [16] 10:20; 71:16; 77:22; 90:9; 92:6; 99:7; 124:5, 15; 195:18; 210:21; 243:13; 244:1; 265:10; 266:4; 281:15; 315:2
talking [38] 14:11; 18:7; 22:1; 23:14; 28:4; 71:4; 86:18; 94:5; 142:7; 193:14; 205:15; 220:13; 234:14, 19; 236:2; 239:21; 240:18, 19; 264:20; 276:11; 277:13; 281:18; 292:2; 300:2, 6; 303:2; 310:11; 315:5; 319:6; 321:13; 322:20; 333:17, 19; 337:11, 12; 342:11; 345:20, 21
talks [3] 167:16, 17
tampon [2] 214:7, 10
tap [3] 17:11, 15; 285:16
tape [1] 348:14
taped [1] 73:20

tapes [1] 74:1
taping [1] 349:2
target [7] 125:1; 239:20, 21; 266:20; 308:21; 336:4, 20
targeting [1] 149:22
Task [12] 7:18; 21:21; 35:8, 11; 45:5; 54:10, 14, 20; 55:4, 6, 21; 64:12
task [22] 10:14, 16; 16:8; 17:15, 19; 19:13; 20:2; 35:9, 14, 16; 44:9; 45:5; 72:6; 73:1; 92:13; 107:3; 129:19; 133:15; 229:8; 239:3, 8
tasks [2] 35:12; 262:8
tat [1] 64:16
taught [2] 115:19; 221:1
TAYLOR [4] 8:18; 146:20; 201:14; 291:7
Taylor [4] 8:18; 146:20; 201:14; 291:7
teach [2] 177:11; 338:4
teacher [1] 317:10
teaching [1] 317:18
tease [3] 42:14, 17; 123:2
technical [5] 131:7; 138:7, 9; 325:15; 345:20
technically [1] 168:19
technique [1] 89:15
techno [1] 10:4
technologies [4] 90:17; 91:3, 10; 149:5
technology [2] 91:2; 149:11
telling [3] 84:6; 105:13; 345:15
tells [5] 85:15; 128:22; 140:22; 165:2; 228:11
templates [1] 292:9
temporary [4] 74:20; 75:2, 6; 223:8
ten [18] 82:7, 11; 91:15; 106:21; 109:15; 115:10; 117:17, 18, 20; 142:18; 143:5, 9; 206:8; 233:13; 273:22; 281:14, 19; 307:6
tend [14] 87:20; 91:8, 10; 92:16; 96:19, 20; 109:7; 125:13, 14; 163:10; 204:11; 286:3; 303:15; 344:6
tended [2] 83:17; 91:17
tendency [1] 163:13
tenfold [3] 88:6; 240:6; 307:14
tenth [2] 82:4; 108:7
Teratogen [2] 6:17; 160:3
teratogen [6] 305:16, 18; 325:6, 8; 332:13; 334:18
teratogenesis [13] 39:7; 126:12; 303:17, 20; 332:5; 333:21; 334:2, 6, 7; 335:2, 7, 16; 344:19
teratogenic [12] 87:16; 115:21; 116:4; 233:3; 252:5; 267:7; 269:6; 295:10; 332:6; 334:10, 11
teratogenicity [3] 58:19; 63:9; 125:15
teratogens [2] 225:10, 14
teratologist [1] 230:9
teratologists [1] 335:19
Teratology [1] 187:20
teratology [4] 126:11; 230:11;

232:18; 323:9
TERIS [4] 120:9, 10; 315:17; 329:13
term [15] 23:4, 12, 15; 24:8; 32:5; 75:19; 85:10; 90:13; 110:7; 149:17; 153:18; 205:15; 208:7, 8; 322:8
termed [1] 210:6
terminate [2] 87:15, 18
termination [3] 269:7, 8, 10
terminations [1] 267:5
terribly [5] 94:22; 140:17; 303:17; 343:4; 344:15
territory [1] 177:5
test [4] 63:20; 68:1; 101:20, 21
tested [3] 66:16; 126:15; 331:10
testify [1] 208:4
testimony [8] 24:18; 36:21; 37:2; 42:7; 209:11, 13, 16; 213:18
Testing [1] 16:11
testing [11] 57:5; 59:8; 101:15; 143:22; 184:16; 203:19; 204:7; 215:14; 216:1; 226:21; 347:21
tetracycline [3] 77:16; 183:20; 299:13
text [3] 250:5, 8; 269:11
textbook [1] 174:21
thalidomide [8] 169:5; 210:22; 221:1; 241:14; 253:9; 315:4; 332:10; 333:5
Thank [38] 4:3; 6:8, 9; 9:21; 10:7; 70:15; 94:11, 12; 100:10; 111:16; 141:15; 152:17; 154:13, 14; 160:18; 179:21; 184:20; 188:16; 207:9; 218:17; 228:21, 22; 229:6; 237:15; 239:5; 243:2, 3; 245:8, 9, 14; 261:18; 272:22; 273:18, 19; 278:18; 291:5; 348:11; 349:11
thank [11] 10:17; 18:3; 20:1; 114:12; 127:6; 129:4; 205:21; 261:17; 264:17; 347:5; 348:7
Thanks [8] 19:21; 70:19; 167:14; 218:16; 244:18; 316:4
thee [1] 253:8
theirs [1] 185:8
theme [3] 132:21; 313:18; 335:2
therapeutic [8] 125:1; 190:20; 231:19; 232:2; 250:11; 253:5; 308:21; 336:4
therapies [2] 83:5; 155:22
therapy [8] 75:5; 77:16; 78:4; 109:21; 137:8; 165:14; 177:1; 249:16
thereof [1] 322:14
they'll [2] 180:21; 315:2
They're [5] 69:19; 186:15; 201:8; 235:12; 282:6
they're [26] 23:22; 32:18; 37:21; 46:15; 106:20; 120:4, 16; 136:3; 167:18; 175:2; 181:2; 186:16; 218:4; 234:19; 235:13; 236:2; 243:20; 245:6; 282:2, 7; 283:15; 289:14; 304:2; 305:10; 331:12

they've [5] 95:3, 20; 128:19; 154:4; 211:3
thick [1] 131:10
thinking [32] 11:16; 23:20; 24:4; 119:3; 130:11, 12; 136:10, 18; 157:13; 162:17; 163:7; 168:15; 169:2, 8; 170:1, 3; 181:10; 182:6; 188:20; 191:10, 22; 193:20; 194:12; 214:1; 222:9; 230:17; 279:9; 321:6; 337:9; 338:6; 339:5; 342:7
Thins [1] 23:6
Third [4] 33:17; 43:8; 92:21; 258:7
third [19] 35:15; 45:5; 72:9; 75:10; 96:10; 135:1; 139:7; 140:14; 142:6; 145:12; 155:5; 165:13; 175:13; 185:15; 205:14; 212:5; 257:5; 295:7; 324:10
thirties [2] 192:17; 193:6
Thirty-two [1] 84:11
thoughtful [1] 284:11
thoughts [6] 100:17; 184:15; 195:15; 300:21; 343:22; 347:6
thousandfold [1] 64:2
threatening [1] 337:14
Three [1] 140:10
three [27] 18:15; 35:11; 90:17; 93:5; 97:2, 4; 107:17, 21; 134:19; 140:9; 141:22; 157:17; 162:3, 8; 207:5; 220:7; 236:5; 273:22; 279:12; 283:19; 293:4; 305:19; 306:20; 307:6; 323:5; 326:21; 328:2
thresholds [3] 69:1; 117:15; 309:22
thrilled [1] 238:5
throw [3] 302:18; 307:19; 332:22
throws [1] 277:10
thumb [1] 173:16
thyroid [4] 30:4; 243:19; 319:22; 320:1
tied [1] 291:11
ties [1] 207:20
tight [1] 82:7
tightly [1] 268:14
timeline [2] 275:22; 286:11
timely [1] 287:2
times [15] 22:14; 86:14; 103:4; 109:13; 116:9; 119:17; 169:17, 19, 20; 177:11; 231:18; 232:5; 255:11; 307:6; 322:7
timing [5] 41:20; 72:18; 75:10; 253:2; 300:6
tired [1] 49:18
titled [1] 346:10
tolerances [2] 68:22; 69:4
tomorrow [2] 20:11; 347:5
Tony [1] 47:11
tool [16] 59:12, 20; 61:15; 62:10, 22; 68:22; 69:15, 17; 116:18; 117:13; 121:2, 7; 124:20; 161:7; 309:21; 347:22
tools [1] 184:22
tooth [1] 77:15
topic [10] 20:8, 22; 23:20; 24:1, 19; 166:8; 246:2; 250:2;

275:16; 295:14
topics [4] 20:17; 161:14; 220:22; 296:8
TOPPER [3] 4:11; 206:3; 348:22
Topper [1] 4:8
tossed [1] 32:6
totally [3] 126:7; 146:4; 192:10
touch [2] 35:22; 195:17
touched [11] 94:16; 97:14; 104:7; 107:22; 115:17, 18; 312:6, 7; 317:12; 318:5; 328:9
tough [13] 34:11; 51:19; 71:13; 94:4; 97:8; 133:12; 143:4, 13; 199:5; 237:12; 239:4; 339:7
towards [1] 216:7
Tower [1] 224:19
Towers [1] 224:11
town [1] 294:21
tox [3] 30:14; 39:10; 201:10
toxic [6] 64:1; 116:20; 251:21; 298:2; 299:12; 333:17
toxicities [14] 15:16; 205:3; 259:3; 295:11, 13, 16, 21; 296:16; 298:14; 299:19; 300:2; 326:22; 335:6; 346:13
Toxicity [7] 55:13; 56:2, 5, 6, 8, 10; 57:10
toxicologic [2] 58:15; 332:1
Toxicological [1] 16:11
toxicologist [3] 53:22; 146:17; 331:21
toxicologists [3] 67:3; 124:4; 133:19
Toxicology [4] 7:20; 54:5, 19; 66:4
toxicology [14] 7:1; 8:20; 32:16, 17; 33:3; 47:18; 57:21; 59:22; 60:20; 118:17, 21; 122:2, 13
traced [1] 238:13
track [1] 290:21
trade [3] 257:2, 3, 7
traditionally [1] 124:5
trained [1] 289:9
training [5] 46:2; 47:5; 239:10; 245:16; 288:21
transcript [5] 5:22; 6:8; 66:12; 209:17; 347:8
transient [1] 300:2
transition [3] 22:8; 24:22; 299:21
translate [6] 15:16; 126:21; 270:3; 289:17; 301:5; 326:10
translates [1] 304:6
translating [1] 325:14
translation [2] 33:4; 270:6
transmission [1] 108:22
transmit [1] 104:22
transmitting [1] 105:6
transposed [1] 214:17
trapped [1] 224:5
trauma [1] 225:3
treat [14] 7:17; 19:6; 30:7; 46:1; 83:10; 85:4, 11, 18, 21; 86:5, 10; 155:17; 337:17; 339:2
treated [11] 46:6; 69:19; 85:16; 139:3; 182:5, 12; 209:6;

263:16; 315:21; 329:21; 330:4
treating [5] 170:21; 213:2; 318:9; 319:22; 337:13
treatment [16] 27:9, 11; 40:3, 11; 77:20; 84:21; 85:20; 108:2, 21; 127:10; 212:2; 221:15; 248:1, 2; 321:9; 337:19
treatments [4] 108:17; 165:21; 260:14; 301:19
tremendous [6] 11:19; 14:21; 138:20; 150:20; 155:8; 238:6
tremendously [1] 134:10
trial [7] 14:1; 76:18; 99:19; 103:12; 119:5; 186:21; 196:10
trials [15] 61:5; 76:9, 16; 119:8; 185:22; 220:1, 20; 221:19; 264:2, 5, 7, 13, 14; 286:20; 313:15
tricyclic [2] 170:17; 180:16
tricyclics [1] 319:20
tries [1] 44:13
trimester [8] 127:13; 139:7; 145:12; 155:5; 165:13; 167:9; 205:14; 293:15
trimesters [2] 145:12; 293:13
trip [1] 348:8
trivial [1] 32:6
trouble [3] 106:11, 12; 282:2
troubled [1] 296:13
true [14] 15:1, 2; 28:10; 132:15; 163:11; 173:10; 174:4; 180:15; 182:17; 227:20; 241:15; 299:22; 332:9; 345:22
truism [1] 15:3
truly [4] 140:6; 286:17, 19; 330:13
trump [1] 158:10
truth [2] 302:20
tube [4] 103:22; 306:11; 307:10; 315:7
tuning [1] 347:11
turning [1] 130:19
tweaking [1] 347:10
Twenty-five [1] 74:14
Twenty-two [1] 84:14
twentyfold [1] 117:20
two-thirds [1] 30:21
two-year [2] 19:1, 7
Tylenol [1] 319:11
type [14] 91:12; 115:3; 123:11; 144:14; 151:7; 214:22; 215:22; 218:10; 270:15; 282:7; 310:19; 320:1; 342:6; 343:15
types [5] 91:6; 141:3; 153:10; 176:4; 271:1
Typically [1] 132:5
typically [7] 66:22; 68:16; 118:17; 131:19; 132:14; 133:11; 195:11

- U -

U.K. [1] 228:8
U.S. [6] 224:4; 225:15; 243:11; 249:21; 250:3; 251:11
U.S.C. [1] 5:1
Ultimately [1] 96:13
ultimately [6] 55:9; 61:8, 12; 129:21; 180:5; 275:14
ultrasound [4] 145:16; 152:7; 266:21; 345:11

ultrasounds [3] 166:6; 266:5, 18
unacceptable [1] 135:15
uncertain [1] 110:17
uncertainties [1] 92:9
uncertainty [16] 72:3; 91:6, 12; 93:12; 108:20; 110:1, 16; 114:17; 199:9; 226:15; 279:15; 340:16; 341:1, 5, 11, 15
uncomfortable [1] 109:19
uncommon [2] 94:22; 310:16
uncomplicated [1] 104:10
uncontrolled [4] 182:13; 318:11, 12; 320:13
underestimation [1] 88:15
undergo [2] 74:14; 118:16
undergoing [1] 108:2
underlying [5] 41:12; 42:8; 43:21; 45:14; 131:14
underneath [1] 157:17
understand [37] 28:1; 46:3; 52:4, 5; 53:1; 86:11; 95:4, 9, 12, 14, 15; 96:9; 97:10; 106:4; 124:12; 136:5, 6; 211:8; 275:1; 289:4; 292:18, 20; 293:7; 301:7; 309:21, 22; 310:4, 9; 315:9; 317:21; 324:3, 7; 326:13; 336:6; 343:17; 345:15; 348:16
understandable [4] 42:16; 93:9; 142:3; 150:14
understandably [1] 211:4
understanding [11] 22:18; 72:5; 92:22; 96:13; 105:16; 130:2; 179:8; 199:9; 269:14; 292:12; 323:22
understands [1] 110:6
understated [1] 268:16
understood [8] 45:1; 134:12; 247:21; 288:7; 299:13; 306:9, 16; 345:19
undetermined [1] 329:16
unfair [1] 191:15
unfocused [1] 280:12
Unfortunately [2] 230:10; 315:13
uniform [4] 33:21; 164:16; 167:4; 262:13
uninformative [1] 42:4
unintended [1] 279:22
Union [3] 48:10; 246:2; 262:13
unique [3] 4:21; 48:12; 222:7
uniquely [1] 299:11
United [4] 41:2; 48:10; 189:7; 224:3
University [10] 7:5; 8:5, 12, 13; 9:8, 13, 20; 125:9; 177:12; 181:6
university [1] 188:2
unknown [10] 90:4, 5; 91:6, 12; 108:16; 215:19; 319:4; 322:5; 333:22; 337:20
unknowns [1] 33:7
Unlike [1] 209:2
unlike [3] 38:21; 132:12; 214:7
unlikely [6] 198:21; 315:22; 327:17, 21; 329:22; 330:4
unobservable [1] 90:5
unplanned [1] 41:3

unquote [1] 299:19
 unrealistic [1] 52:18
 unrelated [3] 146:4; 192:10; 293:20
 unsafety [1] 201:2
 unscathed [1] 222:16
 unsupported [1] 176:10
 untreated [3] 203:5, 10; 217:2
 unusual [2] 123:3; 131:4
 unwanted [9] 72:2, 22; 75:11; 76:1, 20; 77:11; 116:4; 124:3, 5
 Update [1] 161:21
 update [2] 159:6; 246:21
 updated [4] 33:12; 156:2; 222:4; 228:2
 updating [1] 192:8
 upgrading [1] 231:11
 upper [1] 115:5
 urge [3] 226:10; 228:2; 332:2
 URI [1] 79:2
 useful [16] 36:13; 99:2, 4; 126:22; 135:5; 140:22; 161:7; 164:19; 169:20; 275:2; 280:20; 284:8; 304:13; 310:20; 326:9; 347:13
 usefulness [1] 279:1
 user [2] 46:9; 138:6
 users [1] 52:11
 uses [4] 23:18; 208:12; 221:11; 287:5
 usual [1] 268:1
 utero [2] 220:3; 240:21
 utility [1] 280:17
 utilization [3] 175:13; 189:19; 190:11

- V -

vaginal [1] 229:16
 valence [1] 346:14
 valiant [1] 209:19
 valid [2] 123:21; 331:22
 validity [1] 313:17
 Valproic [2] 307:10; 315:7
 valproic [1] 241:21
 valuable [1] 161:13
 value [11] 33:2, 4; 72:19; 77:10; 96:14; 212:15; 252:14; 279:16; 327:16; 340:17
 values [5] 212:2; 213:4; 252:3, 16; 257:8
 valuing [1] 105:2
 variability [1] 274:18
 variable [1] 328:14
 variables [1] 145:3
 variations [1] 162:12
 varied [2] 43:2; 165:8
 varies [2] 77:21; 82:5
 variety [4] 125:4; 192:1; 251:18; 335:1
 vary [2] 84:9; 134:10
 varying [4] 76:3, 4; 141:3; 341:14
 vasoconstrictor [1] 160:7
 vast [2] 126:5; 319:8
 vehicle [3] 177:13; 200:10, 18
 vehicles [1] 200:19
 vein [2] 176:14; 182:6
 verbatim [1] 5:22
 verbiage [1] 346:16

versa [1] 332:18
 versus [19] 75:12, 18; 78:17; 79:2; 80:4, 21; 85:6; 108:8; 115:22; 117:21; 138:18; 176:1; 191:9; 212:20; 271:3; 311:5; 314:20; 316:2, 22
 vetting [1] 25:18
 via [1] 243:15
 Vice [1] 8:18
 vice [1] 332:18
 Victoria [5] 8:14; 68:20; 152:19; 157:9; 195:16
 video [3] 74:1; 348:14; 349:2
 videos [1] 348:13
 view [7] 47:1; 102:14, 15; 115:10; 192:18; 288:2; 309:16
 viewed [1] 147:2
 vigilant [1] 318:8
 vigorously [1] 123:12
 Virginia [3] 6:20; 143:15; 174:2
 virtually [1] 341:17
 virtue [1] 105:6
 visit [1] 317:3
 visits [1] 73:20
 visual [1] 22:9
 vocal [1] 64:15
 Vogel [1] 66:5
 volume [2] 173:14; 284:8
 volumes [1] 131:11
 voluntariness [1] 207:14
 vote [1] 52:20
 Voters [1] 90:22
 vulnerabilities [1] 222:8
 vulnerable [1] 225:3

- W -

waiver [1] 5:4
 waivers [1] 5:2
 walk [4] 20:18; 29:19; 129:19; 289:13
 walking [1] 42:2
 walks [1] 206:9
 wanted [24] 19:15; 51:8; 60:15; 74:16; 84:11, 13, 16; 103:14; 120:21; 134:8; 166:13; 168:20; 169:7; 172:14; 195:17; 212:5; 213:17; 216:18; 268:7; 273:2; 291:3; 292:21; 305:13; 318:4
 wants [3] 25:7; 163:14; 230:18
 wares [1] 220:11
 warned [1] 223:15
 warning [1] 265:9
 warnings [2] 33:19; 256:11
 warrant [1] 165:19
 warrants [1] 27:3
 wary [4] 301:8; 302:5; 304:7; 334:11
 watched [1] 150:1
 wave [1] 187:8
 ways [22] 24:9; 30:22; 47:16; 49:1; 50:10; 53:2; 118:7; 182:10; 186:9, 20; 188:18; 189:1; 192:1; 193:9; 270:22; 271:22; 292:5; 301:22; 305:17; 311:10; 315:10; 317:11
 We'd [2] 49:11; 207:3
 we'd [8] 49:10; 51:10; 52:8;

120:7; 135:7; 191:1; 195:8; 278:13
 We'll [4] 35:22; 177:8; 273:22; 311:9
 we'll [20] 6:7; 29:13; 53:20; 72:11; 100:3; 113:4; 158:20; 160:1; 192:7; 200:5; 273:21; 274:19; 280:12; 306:10; 311:8; 328:2; 347:7, 17
 We're [17] 14:10; 47:15; 66:11; 86:9; 130:4; 132:16; 140:7; 141:9; 151:3; 176:6, 7; 195:12; 200:4; 205:15; 214:15; 322:20; 326:2
 We've [19] 33:8; 34:5; 47:3, 8; 48:21; 119:22; 146:21; 194:21; 205:5; 272:8; 289:9; 292:2; 306:1; 312:18; 328:9; 338:13; 339:18; 342:8
 weapons [1] 89:20
 weave [1] 209:12
 Web [1] 106:18
 Website [2] 50:12; 286:1
 Webster [1] 71:18
 Wedge [1] 342:2
 week [1] 228:7
 weeks [9] 104:9; 145:16, 18, 19; 183:13; 226:19, 20; 244:8
 weighed [1] 341:20
 weighing [2] 212:15; 216:11
 weight [14] 43:17, 18, 19; 61:19; 69:8, 20; 70:8; 75:1; 341:6, 9, 10, 13; 342:5, 12
 weighted [2] 117:9; 309:21
 weighting [1] 117:1
 weights [1] 70:11
 welcome [2] 10:11, 17
 wellbeing [3] 222:13; 320:20, 21
 Wellcome [1] 9:1
 weren't [5] 30:21; 45:1; 228:12; 241:19; 242:4
 Western [2] 9:8; 104:20
 Wheat [1] 23:6
 wheel [2] 287:12, 16
 Whenever [1] 202:16
 whenever [2] 115:3; 260:19
 Whereas [1] 91:8
 whereas [2] 307:13; 344:8
 Whereupon [4] 129:10; 206:11; 274:2; 349:12
 whiz [1] 10:4
 whoever [2] 102:19; 314:8
 widely [1] 325:5
 wider [1] 313:5
 widespread [1] 4:22
 WIER [14] 6:22; 123:4; 150:10, 22; 151:6; 270:11; 285:6; 307:22; 323:6; 326:2; 327:5; 336:1; 340:21; 342:1
 Wier [5] 6:22; 123:4; 150:10; 270:10; 340:19
 wild [2] 22:11; 25:5
 willing [4] 103:7; 109:18; 163:19; 221:4
 wincing [1] 214:12
 wind [1] 22:4
 wish [5] 5:17; 16:2; 97:9; 98:4; 163:2
 WISNER [18] 9:6; 66:10, 13; 68:8; 104:19; 158:6; 170:6, 10;

171:20; 179:21; 202:16; 265:21; 295:2; 326:12; 335:18; 346:7; 348:12; 349:6
 Wisner [9] 9:6; 66:13; 104:19; 170:10; 171:9; 179:20; 182:6; 202:14; 268:8
 withdrawal [1] 318:14
 withhold [1] 337:19
 woman [23] 28:3; 39:19; 46:20; 108:14; 126:1; 132:17, 18; 177:16; 181:16; 191:10; 193:5; 194:9, 10; 205:13; 211:12; 212:17; 213:2; 216:13; 236:7; 288:15; 289:19; 293:2
 Women [8] 8:8; 90:22; 165:17, 20; 192:15; 207:11; 219:5; 222:11
 won't [8] 28:8; 77:13; 139:22; 149:16; 194:15; 282:4; 285:7; 347:5
 wonder [6] 100:17; 168:2, 6; 203:2; 266:2; 304:8
 wondered [3] 108:13; 127:15; 157:15
 wonderful [7] 12:5, 18; 19:15; 100:9; 104:20; 218:6; 348:13
 wondering [8] 192:13; 201:21; 265:5; 266:7; 320:22; 342:15
 Wood [1] 71:1
 Woodcock [1] 10:22
 word [12] 135:21; 149:6, 21; 150:22; 151:1; 210:13; 304:10; 344:2, 5, 6, 11, 19
 Wording [1] 259:4
 wording [9] 247:20; 255:14; 256:20; 258:19; 260:5; 271:15; 272:20; 309:16
 wordings [1] 260:6
 words [21] 31:4; 73:15; 79:10, 20; 84:13, 16; 87:3; 113:7; 122:22; 176:21; 214:20; 221:11; 224:18; 255:3, 4; 278:21; 281:16; 342:11; 343:15; 345:19
 work [21] 15:6; 20:3; 58:2; 74:5; 77:20; 79:7; 81:9; 86:9; 89:4; 96:3; 105:5; 140:6; 151:6; 193:3; 208:19; 224:17; 233:22; 237:3; 269:13; 298:10
 workable [1] 347:19
 worked [5] 10:20; 91:2; 93:19; 186:19; 208:14
 Working [4] 55:14; 56:7; 58:3; 65:21
 working [17] 21:18; 50:16; 56:12; 65:6; 125:19; 126:19, 21; 156:18; 187:4; 214:2; 220:14; 239:12; 242:20; 245:16; 261:10, 11
 works [5] 10:3; 28:6; 86:1; 152:13; 214:10
 workshop [1] 69:14
 world [4] 11:21; 13:1; 79:14; 177:15
 worried [3] 94:1; 235:11; 267:4
 worry [4] 93:19; 332:15; 334:3; 343:7
 worrying [1] 200:14
 worse [4] 125:11, 16, 17;

182:14
worth [5] 156:15; 266:21;
314:5, 9; 344:1
wouldn't [5] 160:9; 173:4;
291:15; 323:19; 338:9
wrap [2] 173:5; 218:14
wrapped [1] 166:21
write [8] 53:6, 9; 130:14;
135:5; 136:13; 140:21; 141:22;
275:4
writing [8] 49:19; 110:21;
132:14, 16; 134:17; 174:21;
237:5; 320:5
written [10] 5:5; 37:2; 78:10;
159:5; 184:17; 189:16; 254:20;
260:1; 272:19
Wrong [1] 114:22
wrong [9] 35:3; 51:6; 145:19;
148:4; 211:6; 238:21; 276:10;
298:3; 316:19
wrote [3] 209:13; 230:2;
231:11

- X -

XX [1] 255:15

- Y -

yeah [1] 277:12
year [11] 16:7; 91:22; 161:5;
188:14; 195:1; 208:4; 230:6;
242:19; 244:16; 277:18, 20
years [27] 18:22; 21:18; 28:3;
31:12; 32:9; 42:10; 44:5, 7;
49:2; 98:5; 109:15; 113:4;
114:20; 118:9; 131:6; 153:21;
163:15; 186:3; 197:3, 4, 14;
199:12; 208:18; 223:16; 244:5;
245:18; 316:6
yell [1] 6:1
yellow [1] 166:16
yesterday [1] 21:5
York [4] 175:9; 192:10; 225:7;
226:2
you'll [2] 48:2; 85:10
You've [2] 116:17; 237:3
you've [20] 19:3; 101:10;
102:22; 103:11; 116:13; 133:4;
138:15; 148:2; 195:3; 212:6;
214:14; 234:1; 236:12; 242:19;
290:7; 323:3; 327:7, 13;
347:16; 348:9
young [2] 205:7; 206:10
yours [1] 275:5
yourself [7] 9:17; 66:12;
107:19; 170:9; 173:21; 183:5;
206:5
yourselves [1] 278:13

- Z -

zero [11] 76:5; 77:5; 82:6;
114:19; 115:1, 3, 6, 13;
151:19; 313:8
Zheng [1] 224:17