

Web Appendix

To Prescribe or Not to Prescribe? Consumer Access to Life-Enhancing Products

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The supplemental material provides examples of case scenarios presented to the physicians.

WEB APPENDIX A

Format of Cases

We present four 10 year-old boys for your assessment on pages 3-6. For each case, we will ask whether you would... A. initiate treatment, and

B. continue treatment after 1 year, assuming it has been initiated by you or another physician.

A. Format for Decision to Initiate Treatment at Age 10

On pages 3-6, we will ask for your treatment recommendations for 4 cases that differ in these factors:

- Child's Growth Velocity
- Child's Current Height
- Predicted Adult Height (Bayley-Pinneau method, using bone age)
- Growth Hormone Price/Year
- Family (including child) Preference About Treatment



Treatment Recommendation:

- Growth Hormone?
- Aromatase Inhibitor?

The following description is common to all 4 presenting cases:

Patient History:

- Each boy has been followed by you for short stature for 2 years.
- Each boy is well and has no other medical problems.

Past Medical History: Unremarkable

Normal birth weight and length

Review of Systems: Negative

Family: Mother is 5'0" and father is 5'6", with normal ages of puberty. Target height is 5'5" - 5'6".

Financial Information: The family is of average income and has health insurance consistent with your practice.

Physical Examination:

- Weight is at the 3rd-5th percentile
- The child is pre-pubertal
- The rest of the exam is normal

Laboratory Studies:

- All normal, including: CBC, chemistry, IGF1, IGFBP3, and any other tests you order.
- GH levels are normal (peak 15 ng/ml on stimulation test).
- Bone age (somewhat delayed to somewhat advanced) is reflected in predicted adult height.

CASE 1

A. Please indicate your recommendation for the following case:

A 10 year-old boy with short stature of unknown cause, as described on page 2.

For this case, he has the characteristics indicated by the **bolded** values in the boxes below (growth chart enclosed).

The other cases may have characteristics shown in the faded boxes.

Child's Growth Velocity	Child's Current Height	Predicted Adult Height (using Bone Age)	GH Price per child/yr	Family Preference About Treatment
3.2 cm/yr	47.0"/119cm (-3SD, <1 st percentile)	5'1"/155cm (-3SD, <1 st percentile)	\$22,000/yr (current price)	Wishes to begin treatment
4.7 cm/yr	49.6"/126cm (-2SD, 2 nd percentile)	5'4"/163cm (-2SD, 2 nd percentile)	\$9,000/yr (generic introduced)	Neutral about treatment

What is the likelihood that you would recommend each treatment below for this boy?

	Very Unlikely	Somewhat Unlikely	Uncertain	Somewhat Likely	Very Likely
• GH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Aromatase Inhibitor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>

CASE 2

A. Please indicate your recommendation for the following case:

A 10 year-old boy with short stature of unknown cause, as described on page 2.

He has the characteristics indicated by the **bolded** values in the boxes below (growth chart enclosed).

Child's Growth Velocity	Child's Current Height	Predicted Adult Height (using Bone Age)	GH Price per child/yr	Family Preference About Treatment
3.2 cm/yr	47.0"/119cm (-3SD, <1 st percentile)	5'1"/155cm (-3SD, <1 st percentile)	\$22,000/yr (current price)	Wishes to begin treatment
4.7 cm/yr	49.6"/126cm (-2SD, 2 nd percentile)	5'4"/163cm (-2SD, 2 nd percentile)	\$9,000/yr (generic introduced)	Neutral about treatment

What is the likelihood that you would recommend each treatment below for this boy?

	Very Unlikely	Somewhat Unlikely	Uncertain	Somewhat Likely	Very Likely
• GH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Aromatase Inhibitor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>

CASE 3

A. Please indicate your recommendation for the following case:

A 10 year-old boy with short stature of unknown cause, as described on page 2.
He has the characteristics indicated by the **bolded** values in the boxes below (growth chart enclosed).

Child's Growth Velocity	Child's Current Height	Predicted Adult Height (using Bone Age)	GH Price per child/yr	Family Preference About Treatment
3.2 cm/yr	47.0"/119cm (-3SD, <1 st percentile)	5'1"/155cm (-3SD, <1 st percentile)	\$22,000/yr (current price)	Wishes to begin treatment
4.7 cm/yr	49.6"/126cm (-2SD, 2 nd percentile)	5'4"/163cm (-2SD, 2 nd percentile)	\$9,000/yr (generic introduced)	Neutral about treatment

What is the likelihood that you would recommend each treatment below for this boy?

	Very Unlikely	Somewhat Unlikely	Uncertain	Somewhat Likely	Very Likely
• GH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Aromatase Inhibitor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>

CASE 4

A. Please indicate your recommendation for the following case:

A 10 year-old boy with short stature of unknown cause, as described on page 2.
He has the characteristics indicated by the **bolded** values in the boxes below (growth chart enclosed).

Child's Growth Velocity	Child's Current Height	Predicted Adult Height (using Bone Age)	GH Price per child/yr	Family Preference About Treatment
3.2 cm/yr	47.0"/119cm (-3SD, <1 st percentile)	5'1"/155cm (-3SD, <1 st percentile)	\$22,000/yr (current price)	Wishes to begin treatment
4.7 cm/yr	49.6"/126cm (-2SD, 2 nd percentile)	5'4"/163cm (-2SD, 2 nd percentile)	\$9,000/yr (generic introduced)	Neutral about treatment

What is the likelihood that you would recommend each treatment below for this boy?

	Very Unlikely	Somewhat Unlikely	Uncertain	Somewhat Likely	Very Likely
• GH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Aromatase Inhibitor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>