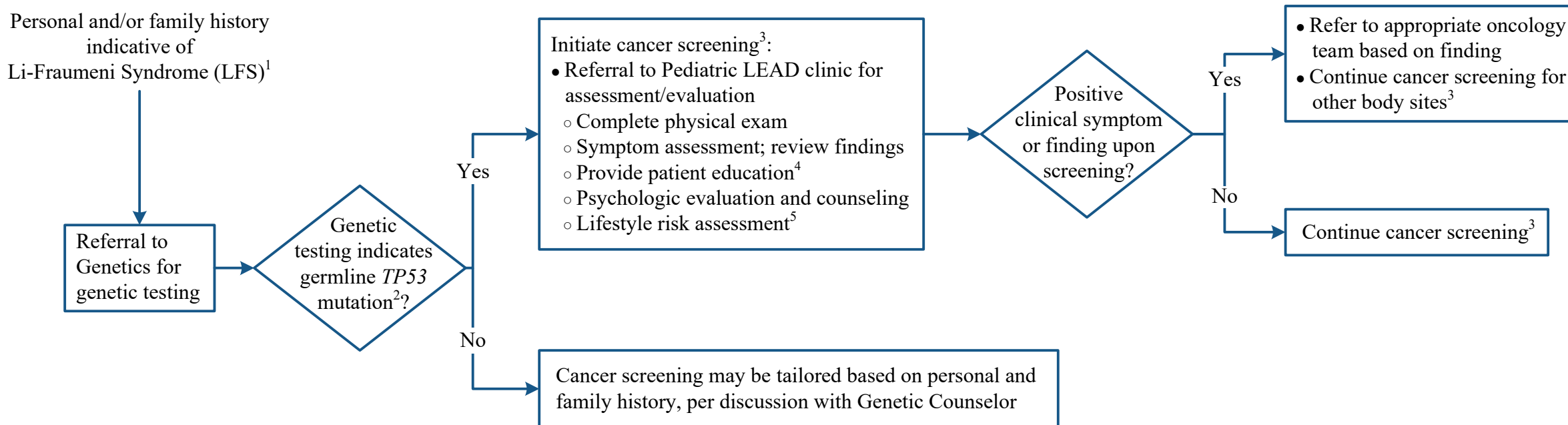


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## PRESENTATION

## ASSESSMENT

## RECOMMENDATION



LEAD clinic = Li-Fraumeni Syndrome Education and Early Detection clinic

<sup>1</sup> Offspring of a parent with LFS or personal and/or family history of LFS-associated cancers including adrenocortical carcinomas, breast cancer, central nervous system tumors, osteosarcomas, and soft-tissue sarcomas. Additional LFS-associated cancers include leukemia, lymphoma, gastrointestinal cancers, cancers of head and neck, kidney, larynx, lung, skin (e.g., melanoma), ovary, pancreas, prostate, testis, and thyroid. See CRIT-7 LFS testing criteria within the NCCN guidelines.

<sup>2</sup> If genetic test results do not clearly indicate whether the TP53 mutation is germline, mosaic or somatic in nature, refer to [Li-Fraumeni Syndrome Screening - Adult algorithm](#) for process of confirmatory testing

<sup>3</sup> See Screening Guidelines on [Page 2](#)

<sup>4</sup> Patient Education - [Li-Fraumeni Syndrome Education and Early Detection \(LEAD\) Pediatric Screening Program](#)

<sup>5</sup> See [Physical Activity](#), [Nutrition](#), and [Tobacco Cessation](#) algorithms; ongoing reassessment of lifestyle risks should be a part of routine clinical practice

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## Li-Fraumeni Syndrome Education and Early Detection (LEAD) – Pediatric Screening Guidelines

Cancer	Age			Frequency
	0-1 Year	1-10 Years	10-20 Years	
General	Physical exam/targeted review of systems • Neurological exam	Physical exam/targeted review of systems • Neurological exam	Physical exam/targeted review of systems • Neurological exam • Skin	Every 6 months
Adrenocortical Tumor (ACT) and Others	• Education of signs and symptoms (virilization, Cushing's syndrome, hypertension) • Testosterone, DHEAS, ACTH	• Education of signs and symptoms (virilization, Cushing's syndrome, hypertension) • Testosterone, DHEAS, ACTH	• Education of signs and symptoms (virilization, Cushing's syndrome, hypertension) • Testosterone, DHEAS, ACTH	• Every 6 months (until 10 years old) • Annually (10-20 years old)
	Ultrasound of abdomen and pelvis	Ultrasound of abdomen and pelvis	MRI whole body	• Every 6 months for ultrasound • Annually for MRI whole body
Brain	• Education of signs and symptoms (vomiting, headaches, vision changes) • MRI <sup>1</sup> brain	• Education of signs and symptoms (vomiting, headaches, vision changes) • MRI <sup>1</sup> brain	• Education of signs and symptoms (vomiting, headaches, vision changes) • MRI <sup>1</sup> brain	Annually
Sarcoma (begin at 2-3 years – based on family history/clinical judgement)	N/A	MRI whole body	MRI whole body	Annually
Leukemia/ Lymphoma	• Education of signs and symptoms (anemia, pallor, fatigue, bruising, petechiae) • CBC with differential, lactate dehydrogenase	• Education of signs and symptoms (anemia, pallor, fatigue, bruising, petechiae) • CBC with differential, lactate dehydrogenase	• Education of signs and symptoms (anemia, pallor, fatigue, bruising, petechiae) • CBC with differential, lactate dehydrogenase	• Every six months (until 10 years) • Annually (10-20 years old)
Melanoma	N/A	N/A	Refer to Dermatology service as necessary	Annually

<sup>1</sup> First MRI with contrast; thereafter without contrast if previous MRI normal and no new abnormality

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## DEVELOPMENT CREDITS

This screening algorithm is based on majority expert opinion of the Pediatric Li-Fraumeni Syndrome work group at the University of Texas MD Anderson Cancer Center. It was developed using a multidisciplinary approach that included input from the following:

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