

OEHHA Synthetic Turf Study Introduction and Overview



Synthetic Turf Scientific Advisory Panel Meeting
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OEHHA Synthetic Turf Study

Goal: to characterize the exposures and health risks from crumb rubber infill on synthetic turf fields, considering:

- Multiple age groups of athletes, coaches, referees and spectators;
- Fields of various ages and in different climate zones across California; and
- Multiple exposure routes (inhalation, dermal, oral)

Research Partners

- ❖ Lawrence Berkeley National Laboratory (LBNL)
- ❖ California Institute of Quantitative Sciences at the University of California Berkeley (UCB)
- ❖ UCB Center for Environmental Research and Children's Health
- ❖ University of Arizona



Since our last meeting in 2019...

- Data analysis completed
- Exposure assessment completed
- Hazard and risk assessment completed
- Draft report released for public and SAP review



Uniqueness of This Study

Field Characterization:

Collected air and particle samples on active fields

Conducted non-targeted analyses to identify unknown chemicals for analyses of field samples

Exposure Characterization:

Collected soccer player sport activity data

Determined soccer exposure data by decoding video recordings of soccer events

Human Health Risk Assessment:

Complied and derived toxicity criteria of selected tire related chemicals

Exposure assessment and risk characterization for athletes, coaches, referees, spectators – both on average and at individual field level



OEHHA Turf Study Presentations

- Morning

- **Field Characterization and Exposure Characterization**

- Dr. Jocelyn Claude, OEHHA

- Afternoon

- **Toxicity Evaluation and Risk Characterization**

- Dr. Kannan Krishnan, OEHHA

