# Improvement of Handover and Information transfer for Good Hospital treatment in critical patients with video connection (5G)

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Effectivity of information transfer between ambulance personnel and hospital staff (% content using SBAR system) Efficiency of information transfer between ambulance personnel and hospital staff (time)

| | |
|---|---|
| **Ethische beoordeling** | Positief advies |
| **Status** | Werving gestart |
| **Type aandoening** | - |
| **Onderzoekstype** | Observationeel onderzoek, zonder invasieve metingen |

## Samenvatting

### ID

NL-OMON21423

**Bron**
NTR

**Verkorte titel**
HIGH-5 trial

**Aandoening**

Trauma, resuscitation, critically ill patients

### Ondersteuning

**Primaire sponsor:** AMC
**Overige ondersteuning:** AMC

### Onderzoeksproduct en/of interventie

## Uitkomstmaten

### Primaire uitkomstmaten

Amount of information transferred during handover, time taken to transfer information

# Toelichting onderzoek

### Achtergrond van het onderzoek

We propose to build, validate and implement a technological platform solution to address communication errors head on and support prehospital care professionals outside the hospital with an in phase development of;
A real-time audiovisual link (5G) in the ambulance to optimise communication between ambulance personnel and emergency physicians in the hospital to (get) advice on differential diagnosis, priorities, treatment and ultimately thereby improve communication and also handover as the hospital is involved. By doing so, we can;
1. Evolve a system of immediately available automated medically specialized care in the pre-hospital setting.
2. Evolving information transfer by live communication between ambulance providers and receiving hospital physicians.
3. Optimize preparation by receiving hospital team and making treatment faster, safer and more efficient.
4. Annotate the acquired data under 1 to train an algorithm to create transcripts of the interventions and actions taken for a structured and automated handover.
5. Annotate data, and train algorithms that will aid in normal protocol execution and recognising differential diagnostic ‘rule out and rule ins’.
6. Implement developments under 4 and 5, to study reliability, security, safety, clinical and economic effects.

### Doel van het onderzoek

Effectivity of information transfer between ambulance personnel and hospital staff (% content using SBAR system)

Efficiency of information transfer between ambulance personnel and hospital staff (time)

### Onderzoeksopzet

Various time points:
Estimated time of arrival
Time of registration at ED nurse
Time of arrival at ED
Time of teambriefing

Duration of teambriefing
Duration of handover
Time of first treatment
Time transfer to ward/OR
Duration of admission
Location after admission from ED
Locatie van patient na opvang
These time points will be physically collected by a researcher (student) at the ED (emergency department)

**Onderzoeksproduct en/of interventie**

None

# Contactpersonen

## Publiek

Amsterdam UMC - locatie AMC
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## Wetenschappelijk

Amsterdam UMC - locatie AMC
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# Deelname eisen

## Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

- All ages
- Major trauma cases (ISS>16)
- All resuscitation patients
- Critically ill patients

### Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

- Minor trauma cases

## Onderzoeksopzet

### Opzet

| | |
|---|---|
| Type: | Observationeel onderzoek, zonder invasieve metingen |
| Onderzoeksmodel: | Anders |
| Toewijzing: | N.v.t. / één studie arm |
| Blindering: | Open / niet geblindeerd |
| Controle: | N.v.t. / onbekend |

### Deelname

Nederland

| | |
|---|---|
| Status: | Werving gestart |
| (Verwachte) startdatum: | 20-01-2021 |
| Aantal proefpersonen: | 300 |
| Type: | Verwachte startdatum |

### Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

**Wordt de data na het onderzoek gedeeld:** Nog niet bepaald

## Ethische beoordeling

Positief advies

| | |
|---|---|
| Datum: | 20-01-2021 |
| Soort: | Eerste indiening |

## Registraties

## Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

## Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

## In overige registers

| Register | ID |
|---|---|
| NTR-new | NL9237 |
| Ander register | METC AMC : W20_058 # 20.086 |

# Resultaten